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 (71) Demandeur/Applicant:
 ISIS PHARMACEUTICALS, INC., US
 (72) Inventeurs/Inventors:
 FREIER, SUSAN M., US;
 CROOKE, ROSANNE M., US;
 GRAHAM, MARK J., US;
 TARBET, KRISTINA LEMONIDIS, US;
 BHANOT, SANJAY, US;
 TRIBBLE, DIANE, US;
 WATTS, ANDREW T., US
 (74) Agent: SMART & BIGGAR

(54) Titre : PROCÉDES POUR TRAITER L'HYPERCHOLESTEROLEMIE
 (54) Title: METHODS FOR TREATING HYPERCHOLESTEROLEMIA

(57) **Abrégé/Abstract:**

Disclosed herein are antisense compounds and methods for decreasing LDL-C in an individual having elevated LDL-C. Additionally disclosed are antisense compounds and methods for treating hypercholesterolemia, or alternatively for treating or preventing atherosclerosis. Further disclosed are antisense compounds and methods for decreasing coronary heart disease risk. Such methods include administering to an individual in need of treatment an antisense compound targeted to a PCSK9 nucleic acid. The antisense compounds administered include gapmer antisense oligonucleotides.

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92008 (US). WATTS, Andrew, T. [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California 92008 (US).

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(74) Agents: MEYER, Mercedes, K. et al.; c/o Drinker Biddle & Reath LLP, 1500 K Street, NW, Suite 1100, Washington, District Of Columbia 20005-1209 (US).

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(71) Applicant (for all designated States except US): ISIS PHARMACEUTICALS, INC. [US/US]; 1896 Rutherford Road, Carlsbad, California 92008 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FREIER, Susan, M. [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California 92008 (US). CROOKE, Rosanne, M. [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California 92008 (US). GRAHAM, Mark, J. [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California 92008 (US). TARBET, Kristina Lemonidis [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California 92008 (US). BHANOT, Sanjay [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California 92008 (US). TRIBBLE, Diane [US/US]; c/o Isis Pharmaceuticals, Inc., 1896 Rutherford Road, Carlsbad, California

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(57) Abstract: Disclosed herein are antisense compounds and methods for decreasing LDL-C in an individual having elevated LDL-C. Additionally disclosed are antisense compounds and methods for treating hypercholesterolemia, or alternatively for treating or preventing atherosclerosis. Further disclosed are antisense compounds and methods for decreasing coronary heart disease risk. Such methods include administering to an individual in need of treatment an antisense compound targeted to a PCSK9 nucleic acid. The antisense compounds administered include gapmer antisense oligonucleotides.

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METHODS FOR TREATING HYPERCHOLESTEROLEMIA

FIELD OF THE INVENTION

5 Methods are provided for lowering LDL-C levels in an individual having elevated LDL-C levels. Such methods are further useful to treat hypercholesterolemia, and to reduce the risk of coronary heart disease.

BACKGROUND

10 Atherosclerosis is a complex, polygenic disease of arterial degeneration that can lead to coronary heart disease (CHD). In Western societies, complications arising from atherosclerosis are the most common causes of death. Several risk factors for CHD have been well-established, and include elevated low density lipoprotein-cholesterol (LDL-C), low levels of high density lipoprotein cholesterol (HDL-C), cigarette smoking, hypertension, age, and family history of
15 early CHD. Given the abundant clinical data and epidemiological studies indicating that lowering LDL-C is beneficial for the prevention of adverse coronary events, the primary target of pharmacological intervention in the treatment and prevention of CHD is lowered LDL-C.

 In individuals with autosomal dominant hypercholesterolemia (ADH), elevated LDL-C levels have been linked to mutations in the genes encoding LDL-receptor (LDL-R),
20 apolipoprotein B (apoB), or proprotein convertase subtilisin/kexin type 9 (PCSK9) (Abifadel et al., Nat. Genet., 2003, 34:154-156). The PCSK9 gene (also known as FH3; NARC1; NARC-1; and HCHOLA3) was mapped to Chromosome 1 at location 1p32.3. PCSK9 was identified as a third locus associated with ADH when gain-of-function mutations in PCSK9 were found to be linked to elevated LDL-C levels. ApoB-100 participates in the intracellular assembly and
25 secretion of triglyceride-rich lipoproteins and is a ligand for the LDL-R. PCSK9 is proposed to reduce LDL-R expression levels in the liver. Reduced LDL-R expression results in reduced hepatic uptake of circulating apoB-100-containing lipoproteins, which in turn leads to elevated cholesterol.

 Familial hypercholesterolemia (FH) is caused by hundreds of different mutations in the
30 LDL-R, and is phenotypically characterized by elevated plasma LDL-C levels and deposits of LDL-C in tendons, skin and arteries, leading to premature cardiovascular disease. Homozygous and heterozygous mutations in the LDL-R are associated with FH. Likewise, heterozygous and homozygous mutations in the ligand-binding domain of PCSK9 are associated with the FH

phenotype. Mutations in this gene have been associated with a third form of autosomal dominant FH.

In mice genetically deficient in PCSK9, a marked increase in LDL-R expression and increased plasma LDL clearance rate were observed. Conversely, overexpression in mice of
5 wild-type PCSK9, or certain PCSK9 mutants, promotes decreased LDL-R expression and elevated LDL-C levels.

SUMMARY OF THE INVENTION

Provided herein are methods for the treatment of hypercholesterolemia and/or
10 atherosclerosis, as well as methods for the reduction of elevated LDL-C levels and CHD risk. Methods for treating hypercholesterolemia comprise administering to an individual an antisense compound targeted to a PCSK9 nucleic acid. In such methods, an antisense compound targeted to a PCSK9 nucleic acid may be targeted to sequences as set forth in GENBANK® Accession No. NM_174936.2, nucleotides 25475000 to 25504000 of GENBANK® Accession No.
15 NT_032977.8, or GENBANK® Accession No. AK124635.1.

Methods for treating and/or preventing atherosclerosis comprise administering to an individual an antisense compound targeted to a PCSK9 nucleic acid. Methods for reducing LDL-C levels comprise administering to an individual an antisense compound targeted to a PCSK9 nucleic acid. Methods for reducing CHD risk comprise administering to an individual an
20 antisense compound targeted to a PCSK9 nucleic acid. Such methods may comprise the administration of a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid.

Methods are provided for reducing LDL-C levels in an individual having elevated LDL-C levels, comprising administering to the individual a therapeutically effective amount of an
25 antisense oligonucleotide targeted to a PCSK9 nucleic acid, thereby reducing LDL-C levels. Also provided are methods for reducing LDL-C levels in an individual comprising selecting an individual having elevated LDL-C levels, and administering to the individual a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid, and additionally monitoring LDL-cholesterol levels. Further provided are methods for treating atherosclerosis in
30 an individual, comprising selecting an individual diagnosed with atherosclerosis, administering to the individual a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid, and monitoring atherosclerosis. Also provided are methods for reducing coronary heart disease risk, comprising selecting an individual having elevated LDL-C levels and one or

more additional indicators of coronary heart disease, administering to the individual a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid, and monitoring LDL-C levels. Additionally provided are methods for treating hypercholesterolemia, comprising administering to an individual diagnosed with hypercholesterolemia a therapeutically effective amount of an antisense oligonucleotide targeted to a PCSK9 nucleic acid, thereby reducing cholesterol levels.

In any of the methods provided, a PCSK9 nucleic acid may be the sequence set forth in SEQ ID NO: 1. Thus, the antisense compound may be targeted to a PCSK9 nucleic acid as set forth in SEQ ID NO: 1.

10 Any of the methods provided herein may further comprise monitoring LDL-C levels.

An individual may be selected for administration of an antisense compound targeted to a PCSK9 nucleic acid when the individual exhibits an LDL-C level above 100 mg/dL, above 130 mg/dL, above 160 mg/dL, or above 190 mg/dL. Administration of an antisense compound targeted to a PCSK9 nucleic acid may result in an LDL-C level below 190 mg/dL, below 160 mg/dL, below 130 mg/dL, below 100 mg/dL, below 70 mg/dL, or below 50 mg/dL.

15 In any of the aforementioned methods, administration of the antisense compound may comprise parenteral administration. The parenteral administration may further comprise subcutaneous or intravenous administration.

In any of the methods provided herein, the antisense compound may have least 80%, at least 90%, or at least 95% complementarity to SEQ ID NO: 1. Alternatively, the antisense compound may have 100% complementarity to SEQ ID NO: 1.

The antisense compounds provided herein and employed in any of the described methods may be 8 to 80 subunits in length, 12 to 50 subunits in length, 12 to 30 subunits in length, 15 to 30 subunits in length, 18 to 24 subunits in length, 19 to 22 subunits in length, or 20 subunits in length. Further, the antisense compounds employed in any of the described methods may be antisense oligonucleotides 8 to 80 nucleotides in length, 12 to 50 nucleotides in length, 12 to 30 nucleotides in length, 15 to 30 nucleotides in length, 18 to 24 nucleotides in length, 19 to 22 nucleotides in length, or 20 nucleotides in length.

30 In any of the methods provided, the antisense compound may be an antisense oligonucleotide. Moreover, the antisense oligonucleotide may be a gapmer antisense oligonucleotide. The gapmer antisense oligonucleotide may comprise a gap segment of ten 2'-deoxynucleotides positioned between wing segments of five 2'-MOE nucleotides. The gapmer antisense oligonucleotide may be a gap-widened antisense oligonucleotide, comprising a gap

segment of fourteen 2'-deoxynucleotides positioned between wing segments of three 2'-MOE nucleotides.

In any of the methods provided, the antisense compounds may have at least one modified internucleoside linkage. Additionally, each internucleoside linkage may be a phosphorothioate internucleoside linkage. Each cytosine may be a 5-methyl cytosine.

Also provided herein are antisense compounds targeted to a PCSK9 nucleic acid. Further provided are antisense oligonucleotides targeted to a PCSK9 nucleic acid. The antisense compounds, including antisense oligonucleotides, may be targeted to PCSK9 nucleic acids, which include the sequences as set forth in GENBANK® Accession No. NM_174936.2, nucleotides 25475000 to 25504000 of GENBANK® Accession No. NT_032977.8, or GENBANK® Accession No. AK124635.1. The antisense compounds, including antisense oligonucleotides, may have at least 70%, at least 80%, at least 90%, or at least 95% complementarity to a PCSK9 nucleic acid. The antisense compounds, including antisense oligonucleotides, may have 99% complementarity to a PCSK9 nucleic acid. The antisense compounds, including antisense oligonucleotides, may have 100% complementarity to a PCSK9 nucleic acid. For any of the antisense compounds provided, including antisense oligonucleotides, the PCSK9 nucleic acid may be the sequence set forth in SEQ ID NO: 1.

Antisense compounds targeted to a PCSK9 nucleic acid may be 8 to 80 subunits in length, 12 to 50 subunits in length, 12 to 30 subunits in length, 15 to 30 subunits in length, 18 to 24 subunits in length, 19 to 22 subunits in length, or 20 subunits in length. Antisense oligonucleotides targeted to a PCSK9 nucleic acid may be 8 to 80 subunits in length, 12 to 50 subunits in length, 12 to 30 subunits in length, 15 to 30 subunits in length, 18 to 24 subunits in length, 19 to 22 subunits in length, or 20 subunits in length.

Moreover, the antisense compound may be a gapmer antisense oligonucleotide. The gapmer antisense oligonucleotide may comprise a gap segment of ten 2'-deoxynucleotides positioned between wing segments of five 2'-MOE nucleotides. The gapmer antisense oligonucleotide may be a gap-widened antisense oligonucleotide, comprising a gap segment of fourteen 2'-deoxynucleotides positioned between wing segments of three 2'-MOE nucleotides.

Antisense compounds, including antisense oligonucleotides, targeted to a PCSK9 nucleic acid may have at least one modified internucleoside linkage. Additionally, each internucleoside linkage may be a phosphorothioate internucleoside linkage. Each cytosine may be a 5-methyl cytosine.

Antisense compounds, including antisense oligonucleotides, targeted to a PCSK9 nucleic acid may have at least one modified nucleoside. In certain embodiments, a modified nucleoside is a sugar-modified nucleoside. In certain such embodiments, the sugar-modified nucleosides can further comprise a natural or modified heterocyclic base moiety and/or a natural or modified internucleoside linkage and may include further modifications independent from the sugar modification. In certain embodiments, a sugar modified nucleoside is a 2'-modified nucleoside, wherein the sugar ring is modified at the 2' carbon from natural ribose or 2'-deoxy-ribose.

In certain embodiments, a 2' modified nucleoside has a 2'-F, 2'-OCH₂ (2'-OMe) or a 2'-O(CH₂)₂-OCH₃ (2'-O-methoxyethyl or 2'-MOE) substituent group

In certain embodiments, a 2'-modified nucleoside has a bicyclic sugar moiety. In certain such embodiments, the bicyclic sugar moiety is a D sugar in the alpha configuration. In certain such embodiments, the bicyclic sugar moiety is a D sugar in the beta configuration. In certain such embodiments, the bicyclic sugar moiety is an L sugar in the alpha configuration. In certain such embodiments, the bicyclic sugar moiety is an L sugar in the beta configuration.

In certain embodiments, the bicyclic sugar moiety comprises a bridge group between the 2' and the 4'-carbon atoms. In certain such embodiments, the bridge group comprises from 1 to 8 linked biradical groups. In certain embodiments, the bicyclic sugar moiety comprises from 1 to 4 linked biradical groups. In certain embodiments, the bicyclic sugar moiety comprises 2 or 3 linked biradical groups. In certain embodiments, the bicyclic sugar moiety comprises 2 linked biradical groups. In certain embodiments, a linked biradical group is selected from -O-, -S-, -N(R1)-, -C(R1)(R2)-, -C(R1)=C(R1)-, -C(R1)=N-, -C(=NR1)-, -Si(R1)(R2)-, -S(=O)₂-, -S(=O)-, -C(=O)- and -C(=S)-; where each R1 and R2 is, independently, H, hydroxyl, C1-C12 alkyl, substituted C1-C12 alkyl, C2-C12 alkenyl, substituted C2-C12 alkenyl, C2-C12 alkynyl, substituted C2-C12 alkynyl, C5-C20 aryl, substituted C5-C20 aryl, a heterocycle radical, a substituted hetero-cycle radical, heteroaryl, substituted heteroaryl, C5-C7 alicyclic radical, substituted C5-C7 alicyclic radical, halogen, substituted oxy (-O-), amino, substituted amino, azido, carboxyl, substituted carboxyl, acyl, substituted acyl, CN, thiol, substituted thiol, sulfonyl (S(=O)₂-H), substituted sulfonyl, sulfoxyl (S(=O)-H) or substituted sulfoxyl; and each substituent group is, independently, halogen, C1-C12 alkyl, substituted C1-C12 alkyl, C2-C12 alkenyl, substituted C2-C12 alkenyl, C2-C12 alkynyl, substituted C2-C12 alkynyl, amino, substituted amino, acyl, substituted acyl, C1-C12 aminoalkyl, C1-C12 aminoalkoxy, substituted C1-C12 aminoalkyl, substituted C1-C12 aminoalkoxy or a protecting group.

In some embodiments, the bicyclic sugar moiety is bridged between the 2' and 4' carbon atoms with a biradical group selected from $-\text{O}-(\text{CH}_2)_p-$, $-\text{O}-\text{CH}_2-$, $-\text{O}-\text{CH}_2\text{CH}_2-$, $-\text{O}-\text{CH}(\text{alkyl})-$, $-\text{NH}-(\text{CH}_2)_p-$, $-\text{N}(\text{alkyl})-(\text{CH}_2)_p-$, $-\text{O}-\text{CH}(\text{alkyl})-$, $-(\text{CH}(\text{alkyl}))-(\text{CH}_2)_p-$, $-\text{NH}-\text{O}-(\text{CH}_2)_p-$, $-\text{N}(\text{alkyl})-\text{O}-(\text{CH}_2)_p-$, or $-\text{O}-\text{N}(\text{alkyl})-(\text{CH}_2)_p-$, wherein p is 1, 2, 3, 4 or 5 and each alkyl group can be further substituted. In certain embodiments, p is 1, 2 or 3.

In one aspect, each of said bridges is, independently, $-\text{C}(\text{R}_1)(\text{R}_2)]_n-$, $-\text{C}(\text{R}_1)(\text{R}_2)]_n-\text{O}-$, $-\text{C}(\text{R}_1\text{R}_2)-\text{N}(\text{R}_1)-\text{O}-$ or $-\text{C}(\text{R}_1\text{R}_2)-\text{O}-\text{N}(\text{R}_1)-$. In another aspect, each of said bridges is, independently, $4'-(\text{CH}_2)_3-2'$, $4'-(\text{CH}_2)_2-2'$, $4'-\text{CH}_2-\text{O}-2'$, $4'-(\text{CH}_2)_2-\text{O}-2'$, $4'-\text{CH}_2-\text{O}-\text{N}(\text{R}_1)-2'$ and $4'-\text{CH}_2-\text{N}(\text{R}_1)-\text{O}-2'$ wherein each R_1 is, independently, H, a protecting group or C1-C12 alkyl.

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Definitions

Unless defined otherwise, all technical and scientific terms used herein have the same meaning as is commonly understood by one of skill in the art to which the invention(s) belong. Unless specific definitions are provided, the nomenclature utilized in connection with, and the procedures and techniques of, analytical chemistry, synthetic organic chemistry, and medicinal and pharmaceutical chemistry described herein are those well known and commonly used in the art. Standard techniques may be used for chemical synthesis, chemical analysis, pharmaceutical preparation, formulation and delivery, and treatment of subjects. Certain such techniques and procedures may be found for example in "Antisense Drug Technology: Principles, Strategies, and Applications." by Stanley Crooke, Boca Raton: Taylor & Francis Group, 2008; "Carbohydrate Modifications in Antisense Research" Edited by Sangvi and Cook, American Chemical Society, Washington D.C., 1994; and "Remington's Pharmaceutical Sciences," Mack Publishing Co., Easton, Pa., 18th edition, 1990; and which is hereby incorporated by reference for any purpose. Where permitted, all patents, patent applications, published applications and publications, GENBANK sequences, websites and other published materials referred to throughout the entire disclosure herein, unless noted otherwise, are incorporated by reference in their entirety. All of the in GENBANK® Accession Nos. along with their associated sequence and structural data pertaining to such sequences including gene organization and structural elements and SNP information that may be found in sequence databases such as the National Center for Biotechnology Information (NCBI) are incorporated herein by reference in their entirety. In the event that there is a plurality of definitions for terms herein, those in this section prevail. Where reference is made to a URL or other such identifier or address, it is understood that such identifiers can change and particular information on the internet can come and go, but

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equivalent information can be found by searching the internet. Reference thereto evidences the availability and public dissemination of such information.

A “pharmaceutical composition” means a mixture of substances suitable for administering to an individual. For example, a pharmaceutical composition may comprise an
5 antisense oligonucleotide and a sterile aqueous solution.

“Administering” means providing a pharmaceutical agent to an individual, and includes, but is not limited to administering by a medical professional and self-administering.

“Individual” means a human or non-human animal selected for treatment or therapy.

“Duration” means the period of time during which an activity or event continues. In
10 certain embodiments, the duration of treatment is the period of time during which doses of a pharmaceutical agent are administered.

“Parenteral administration,” means administration through injection or infusion. Parenteral administration includes, but is not limited to, subcutaneous administration, intravenous administration, or intramuscular administration.

15 “Subcutaneous administration” means administration just below the skin. “Intravenous administration” means administration into a vein.

“Dose” means a specified quantity of a pharmaceutical agent provided in a single administration. In certain embodiments, a dose may be administered in two or more boluses, tablets, or injections. For example, in certain embodiments, where subcutaneous administration is
20 desired, the desired dose requires a volume not easily accommodated by a single injection. In such embodiments, two or more injections may be used to achieve the desired dose. In certain embodiments, a dose may be administered in two or more injections to minimize injection site reaction in a individual.

“Dosage unit” means a form in which a pharmaceutical agent is provided. In certain
25 embodiments, a dosage unit is a vial containing lyophilized antisense oligonucleotide. In certain embodiments, a dosage unit is a vial containing reconstituted antisense oligonucleotide.

“Pharmaceutical agent” means a substance provides a therapeutic benefit when administered to a individual. For example, in certain embodiments, an antisense oligonucleotide targeted to PCSK9 is pharmaceutical agent.

30 “Diluent” means an ingredient in a composition that lacks pharmacological activity, but is pharmaceutically necessary or desirable. For example, in drugs that are injected the diluent may be a liquid, e.g. saline solution.

“Active pharmaceutical ingredient” means the substance in a pharmaceutical composition that provides a desired effect.

“Pharmaceutically acceptable carrier” means a medium or diluent that does not interfere with the structure of the oligonucleotide. Certain, of such carries enable pharmaceutical compositions to be formulated as, for example, tablets, pills, dragees, capsules, liquids, gels, syrups, slurries, suspension and lozenges for the oral ingestion by a subject.

“Therapeutically effective amount” means an amount of a pharmaceutical agent that provides a therapeutic benefit to an individual. In certain embodiments, a therapeutically effective amount of antisense compound targeted to a PCSK9 nucleic acid is an amount that decreases LDL-C in the individual.

“Hypercholesterolemia” means a condition characterized by elevated serum cholesterol.

“Hyperlipidemia” means a condition characterized by elevated serum lipids.

“Hypertriglyceridemia” means a condition characterized by elevated triglyceride levels.

“Non-familial hypercholesterolemia” means a condition characterized by elevated cholesterol that is not the result of a single gene mutation.

“Polygenic hypercholesterolemia” means a condition characterized by elevated cholesterol that results from the influence of a variety of genetic factors. In certain embodiments, polygenic hypercholesterolemia may be exacerbated by dietary intake of lipids.

“Familial hypercholesterolemia (FH)” means an autosomal dominant metabolic disorder characterized by a mutation in the LDL-receptor (LDL-R) gene, markedly elevated LDL-C and premature onset of atherosclerosis. A diagnosis of familial hypercholesterolemia is made when an individual meets one or more of the following criteria: genetic testing confirming 2 mutated LDL-receptor genes; genetic testing confirming one mutated LDL-receptor gene; document history of untreated serum LDL-cholesterol greater than 500 mg/dL; tendinous and/or cutaneous xanthoma prior to age 10 years; or, both parents have documented elevated serum LDL-cholesterol prior to lipid-lowering therapy consistent with heterozygous familial hypercholesterolemia.

“Homozygous familial hypercholesterolemia” or “HoFH” means a condition characterized by a mutation in both maternal and paternal LDL-R genes.

“Heterozygous familial hypercholesterolemia” or “HeFH” means a condition characterized by a mutation in either the maternal or paternal LDL-R gene.

“Mixed dyslipidemia” means a condition characterized by elevated serum cholesterol and elevated serum triglycerides.

“Diabetic dyslipidemia” or “Type II diabetes with dyslipidemia” means a condition characterized by Type II diabetes, reduced HDL-C, elevated serum triglycerides, and elevated small, dense LDL particles.

“CHD risk equivalents,” means indicators of clinical atherosclerotic disease that confer a high risk for coronary heart disease, and include clinical coronary heart disease, symptomatic carotid artery disease, peripheral arterial disease, and/or abdominal aortic aneurysm.

“Metabolic syndrome” means a condition characterized by a clustering of lipid and non-lipid cardiovascular risk factors of metabolic origin. In certain embodiments, metabolic syndrome is identified by the presence of any 3 of the following factors: waist circumference of greater than 102 cm in men or greater than 88 cm in women; serum triglyceride of at least 150 mg/dL; HDL-C less than 40 mg/dL in men or less than 50 mg/dL in women; blood pressure of at least 130/85 mmHg; and fasting glucose of at least 110 mg/dL.

“Non-alcoholic fatty liver disease (NAFLD)” means a condition characterized by fatty inflammation of the liver that is not due to excessive alcohol use (for example, alcohol consumption of over 20 g/day). In certain embodiments, NAFLD is related to insulin resistance and the metabolic syndrome.

“Non-alcoholic steatohepatitis (NASH)” means a condition characterized by inflammation and the accumulation of fat and fibrous tissue in the liver, that is not due to excessive alcohol use. NASH is an extreme form of NAFLD.

“Major risk factors” mean factors that contribute to a high risk for coronary heart disease, and include without limitation cigarette smoking, hypertension, low HDL-C, family history of coronary heart disease, and age.

“CHD risk factors” mean CHD risk equivalents and major risk factors.

“Coronary heart disease (CHD)” means a narrowing of the small blood vessels that supply blood and oxygen to the heart, which is often a result of atherosclerosis.

“Reduced coronary heart disease risk” means a reduction in the likelihood that an individual will develop coronary heart disease. In certain embodiments, a reduction in coronary heart disease risk is measured by an improvement in one or more CHD risk factors, for example, a decrease in LDL-C levels.

“Atherosclerosis” means a hardening of the arteries affecting large and medium-sized arteries and is characterized by the presence of fatty deposits. The fatty deposits are called “atheromas” or “plaques,” which consist mainly of cholesterol and other fats, calcium and scar tissue, and damage the lining of arteries.

“History of coronary heart disease” means the occurrence of clinically evident coronary heart disease in the medical history of a individual or a individual’s family member.

“Early onset coronary heart disease” means a diagnosis of coronary heart disease prior to age 50.

5 “Statin intolerant individual” means a individual who as a result of statin therapy experiences one or more of creatine kinase increases, liver function test abnormalities, muscle aches, or central nervous system side effects.

“Efficacy” means the ability to produce a desired effect. For example, efficacy of a lipid-lowering therapy may be reduction in the concentration of one or more of LDL-C, VLDL-C,
10 IDL-C, non-HDL-C, ApoB, lipoprotein(a), or triglycerides.

“Acceptable safety profile” means a pattern of side effects that is within clinically acceptable limits.

“Side effects” means physiological responses attributable to a treatment other than desired effects. In certain embodiments, side effects include, without limitation, injection site
15 reactions, liver function test abnormalities, renal function abnormalities, liver toxicity, renal toxicity, central nervous system abnormalities, and myopathies. For example, increased aminotransferase levels in serum may indicate liver toxicity or liver function abnormality. For example, increased bilirubin may indicate liver toxicity or liver function abnormality.

“Injection site reaction” means inflammation or abnormal redness of skin at a site of
20 injection in an individual.

“Individual compliance” means adherence to a recommended or prescribed therapy by a individual.

“Lipid-lowering therapy” means a therapeutic regimen provided to a individual to reduce one or more lipids in a individual. In certain embodiments, a lipid-lowering therapy is provide to
25 reduce one or more of ApoB, total cholesterol, LDL-C, VLDL-C, IDL-C, non-HDL-C, triglycerides, small dense LDL particles, and Lp(a) in a individual.

“Lipid-lowering agent” means a pharmaceutical agent provided to a individual to achieve a lowering of lipids in the individual. For example, in certain embodiments, a lipid-lowering agent is provided to a individual to reduce one or more of ApoB, LDL-C, total cholesterol, and
30 triglycerides.

“LDL-C target” means an LDL-C level that is desired following lipid-lowering therapy.

“Comply” means the adherence with a recommended therapy by a individual.

“Recommended therapy” means a therapeutic regimen recommended by a medical professional for the treatment, amelioration, or prevention of a disease.

“Low LDL-receptor activity” means LDL-receptor activity that is not sufficiently high to maintain clinically acceptable levels of LDL-C in the bloodstream.

5 “Cardiovascular outcome” means the occurrence of major adverse cardiovascular events.

“Improved cardiovascular outcome” means a reduction in the occurrence of major adverse cardiovascular events, or the risk thereof. Examples of major adverse cardiovascular events include, without limitation, death, reinfarction, stroke, cardiogenic shock, pulmonary edema, cardiac arrest, and atrial dysrhythmia.

10 “Surrogate markers of cardiovascular outcome” means indirect indicators of cardiovascular events, or the risk thereof. For example, surrogate markers of cardiovascular outcome include carotid intimal media thickness (CIMT). Another example of a surrogate marker of cardiovascular outcome includes atheroma size. Atheroma size may be determined by intravascular ultrasound (IVUS).

15 “Increased HDL-C” means an increase in serum HDL-C in a individual over time.

“Lipid-lowering” means a reduction in one or more serum lipids in an individual over time.

20 “Co-administration” means administration of two or more pharmaceutical agents to a individual. The two or more pharmaceutical agents may be in a single pharmaceutical composition, or may be in separate pharmaceutical compositions. Each of the two or more pharmaceutical agents may be administered through the same or different routes of administration. Co-administration encompasses administration in parallel or sequentially.

25 “Administered concomitantly” refers to the administration of two agents at the same therapeutic time frame, in any manner in which the pharmacological effects of both are manifest in the patient at the same time. Concomitant administration does not require that both agents be administered in a single pharmaceutical composition, in the same dosage form, or by the same route of administration.

30 “Therapeutic lifestyle change” means dietary and lifestyle changes intended to lower cholesterol and reduce the risk of developing heart disease, and includes recommendations for dietary intake of total daily calories, total fat, saturated fat, polyunsaturated fat, monounsaturated fat, carbohydrate, protein, cholesterol, insoluble fiber, as well as recommendations for physical activity.

“Statin” means a pharmaceutical agent that inhibits the activity of HMG-CoA reductase.

“HMG-CoA reductase inhibitor” means a pharmaceutical agent that acts through the inhibition of the enzyme HMG-CoA reductase.

“Cholesterol absorption inhibitor” means a pharmaceutical agent that inhibits the absorption of exogenous cholesterol obtained from diet.

5 “LDL apheresis” means a form of apheresis by which LDL-C is removed from blood. Typically, a individual’s blood is removed from a vein, and separated into red cells and plasma. LDL-C is filtered out of the plasma prior to return of the plasma and red blood cells to the individual.

10 “MTP inhibitor” means a pharmaceutical agent that inhibits the enzyme microsomal triglyceride transfer protein.

“Low density lipoprotein-cholesterol (LDL-C)” means cholesterol carried in low density lipoprotein particles. Concentration of LDL-C in serum (or plasma) is typically quantified in mg/dL or nmol/L. “Serum LDL-C” and “plasma LDL-C” mean LDL-C in the serum and plasma, respectively.

15 “Very low density lipoprotein-cholesterol (VLDL-C)” means cholesterol associated with very low density lipoprotein particles. Concentration of VLDL-C in serum (or plasma) is typically quantified in mg/dL or nmol/L. “Serum VLDL-C” and “plasma VLDL-C” mean VLDL-C in the serum or plasma, respectively.

20 “Intermediate low density lipoprotein-cholesterol (IDL-C)” means cholesterol associated with intermediate density lipoprotein. Concentration of IDL-C in serum (or plasma) is typically quantified in mg/mL or nmol/L. “Serum IDL-C” and “plasma IDL-C” mean IDL-C in the serum or plasma, respectively.

25 “Non-high density lipoprotein-cholesterol (Non-HDL-C)” means cholesterol associated with lipoproteins other than high density lipoproteins, and includes, without limitation, LDL-C, VLDL-C, and IDL-C.

“High density lipoprotein-C (HDL-C)” means cholesterol associated with high density lipoprotein particles. Concentration of HDL-C in serum (or plasma) is typically quantified in mg/dL or nmol/L. “Serum HDL-C” and “plasma HDL-C” mean HDL-C in the serum and plasma, respectively.

30 “Total cholesterol” means all types of cholesterol, including, but not limited to, LDL-C, HDL-C, IDL-C and VLDL-C. Concentration of total cholesterol in serum (or plasma) is typically quantified in mg/dL or nmol/L.

“Lipoprotein(a)” or “Lp(a)” means a lipoprotein particle that is comprised of LDL-C, an apolipoprotein(a) particle, and an apolipoproteinB-100 particle.

“ApoA1” means apolipoprotein-A1 protein in serum. Concentration of ApoA1 in serum is typically quantified in mg/dL or nmol/L.

5 “ApoB:ApoA1 ratio” means the ratio of ApoB concentration to ApoA1 concentration.

“ApoB-containing lipoprotein” means any lipoprotein that has apolipoprotein B as its protein component, and is understood to include LDL, VLDL, IDL, and lipoprotein(a).

10 “Small LDL particle” means a subclass of LDL particles characterized by a smaller, denser size compared to other LDL particles. In certain embodiments, intermediate LDL particles are 23-27 nm in diameter. In certain embodiments, large LDL particles are 21.2-23 nm in diameter. In certain embodiments, small LDL particles are 18-21.2 nm in diameter. In certain embodiments, particle size is measured by nuclear magnetic resonance analysis.

15 “Small VLDL particle” means a subclass of VLDL particles characterized by a smaller, denser size compared to other VLDL particles. In certain embodiments, large VLDL particles are greater than 60 nm in diameter. In certain embodiments, medium VLDL particles are 35-60 nm in diameter. In certain embodiments, small VLDL particles are 27-35 nm in diameter. In certain embodiments, particle size is measured by nuclear magnetic resonance analysis.

“Triglycerides” means lipids that are the triesters of glycerol. “Serum triglycerides” mean triglycerides present in serum. “Liver triglycerides” mean triglycerides present in liver tissue.

20 “Serum lipids” mean cholesterol and triglycerides in the serum.

“Elevated total cholesterol” means total cholesterol at a concentration in a individual at which lipid-lowering therapy is recommended, and includes, without limitation, elevated LDL-C”, “elevated VLDL-C,” “elevated IDL-C,” and “elevated non-HDL-C.” In certain embodiments, total cholesterol concentrations of less than 200 mg/dL, 200-239 mg/dL, and greater than 240 mg/dL are considered desirable, borderline high, and high, respectively. In certain embodiments, LDL-C concentrations of 100 mg/dL, 100-129 mg/dL, 130-159 mg/dL, 160-189 mg/dL, and greater than 190 mg/dL are considered optimal, near optimal/above optimal, borderline high, high, and very high, respectively.

30 “Elevated triglyceride” means concentrations of triglyceride in the serum or liver at which lipid-lowering therapy is recommended, and includes “elevated serum triglyceride” and “elevated liver triglyceride.” In certain embodiments, serum triglyceride concentration of 150-199 mg/dL, 200-499 mg/dL, and greater than or equal to 500 mg/dL is considered borderline high, high, and very high, respectively.

“Elevated small LDL particles” means a concentration of small LDL particles in a individual at which lipid-lowering therapy is recommended.

“Elevated small VLDL particles” means a concentration of small VLDL particles in a individual at which lipid-lowering therapy is recommended.

5 “Elevated lipoprotein(a)” means a concentration of lipoprotein(a) in a individual at which lipid-lowering therapy is recommended.

“Low HDL-C” means a concentration of HDL-C in a individual at which lipid-lowering therapy is recommended. In certain embodiments lipid-lowering therapy is recommended when low HDL-C is accompanied by elevations in non-HDL-C and/or elevations in triglyceride. In
10 certain embodiments, HDL-C concentrations of less than 40 mg/dL are considered low. In certain embodiments, HDL-C concentrations of less than 50 mg/dL are considered low.

“ApoB” means apolipoprotein B-100 protein. Concentration of ApoB in serum (or plasma) is typically quantified in mg/dL or nmol/L. “Serum ApoB” and “plasma ApoB” mean ApoB in the serum and plasma, respectively.

15 “LDL/HDL ratio” means the ratio of LDL-C to HDL-C.

“Oxidized-LDL” or “Ox-LDL-C” means LDL-C that is oxidized following exposure to free radicals.

“Individual having elevated LDL-C levels” means an individual who has been identified by a medical professional (e.g. a physician) as having LDL-C levels near or above the level at
20 which therapeutic intervention is recommended, according to guidelines recognized by medical professionals. Such an individual may also be considered “in need of treatment” to decrease LDL-C levels.

“Individual having elevated apoB-100 levels” means an individual who has been identified as having apoB-100 levels near or below the level at which therapeutic intervention is
25 recommended, according to guidelines recognized by medical professionals. Such an individual may also be considered “in need of treatment” to decrease apoB-100 levels.

“Treatment of elevated LDL-C levels” means administration of an antisense compound targeted to a PCSK9 nucleic acid to an individual having elevated LDL-C levels.

“Treatment of atherosclerosis” means administration of an antisense compound targeted
30 to a PCSK9 nucleic acid to an individual who, based upon a physician’s assessment, has or is likely to have atherosclerosis. “Prevention of atherosclerosis” means administration of an antisense compound targeted to a PCSK9 nucleic acid to an individual who, based upon a physician’s assessment, is susceptible to atherosclerosis.

“Target nucleic acid,” “target RNA,” “target RNA transcript” and “nucleic acid target” all mean any nucleic acid capable of being targeted by antisense compounds.

“PCSK9 nucleic acid” means any nucleic acid encoding PCSK9. For example, in certain embodiments, a PCSK9 nucleic acid includes, without limitation, a DNA sequence encoding PCSK9, an RNA sequence transcribed from DNA encoding PCSK9, and an mRNA sequence encoding PCSK9. “PCSK9 mRNA” means an mRNA encoding a PCSK9 protein.

“Targeting” means the process of design and selection of an antisense compound that will specifically hybridize to a target nucleic acid and induce a desired effect.

“Targeted” means having a nucleobase sequence that will allow specific hybridization of an antisense compound to a target nucleic acid to induce a desired effect. In certain embodiments, a desired effect is reduction of a target nucleic acid. In certain such embodiments, a desired effect is reduction of PCSK9 mRNA.

“Antisense inhibition” means reduction of a target nucleic acid levels in the presence of an antisense compound complementary to a target nucleic acid compared to target nucleic acid levels in the absence of the antisense compound.

“Target region” means a fragment of a target nucleic acid to which one or more antisense compounds is targeted.

“Target segment” means the sequence of nucleotides of a target nucleic acid to which an antisense compound is targeted. “5’ target site” refers to the 5’-most nucleotide of a target segment. “3’ target site” refers to the 3’-most nucleotide of a target segment.

“Active target region” means a target region to which one or more active antisense compounds is targeted. “Active antisense compounds” means antisense compounds that reduce target nucleic acid levels.

“Hybridization” means the annealing of complementary nucleic acid molecules. In certain embodiments, complementary nucleic acid molecules include, but are not limited to, an antisense compound and a nucleic acid target. In certain such embodiments, complementary nucleic acid molecules include, but are not limited to, an antisense oligonucleotide and a nucleic acid target

“Stringent hybridization conditions” means conditions under which a nucleic acid molecule, such as an antisense compound, will hybridize to a target nucleic acid sequence, but to a minimal number of other sequences.

“Specifically hybridizable” means an antisense compound that hybridizes to a target nucleic acid to induce a desired effect, while exhibiting minimal or no effects on non-target nucleic acids.

“Complementarity” means the capacity for pairing between nucleobases of a first nucleic acid and a second nucleic acid.

“Fully complementary” means each nucleobase of a first nucleic acid is capable of pairing with each nucleobase of a second nucleic acid. In certain embodiments, a first nucleic acid is an antisense compound and a target nucleic acid is a second nucleic acid. In certain such
5 embodiments, an antisense oligonucleotide is a first nucleic acid and a target nucleic acid is a second nucleic acid.

“Non-complementary nucleobase” means a nucleobase of first nucleic acid that is not capable of pairing with the corresponding nucleobase of a target nucleic acid. “Mismatch” a
10 nucleobase of first nucleic acid that is not capable of pairing with the corresponding nucleobase of a target nucleic acid.

“Portion” means a defined number of contiguous (i.e. linked) nucleobases of a target nucleic acid. In certain embodiments, a portion is a defined number of contiguous nucleobases of a target nucleic acid. In certain embodiments, a portion is a defined number of contiguous
15 nucleobases of an antisense compound.

“Oligomeric compound” means a polymer of linked monomeric subunits which is capable of hybridizing to at least a region of an RNA molecule.

“Antisense compound” means an oligomeric compound that is capable of undergoing hybridization to a target nucleic acid through hydrogen bonding.

20 “Oligonucleotide” means a polymer of linked nucleosides each of which can be modified or unmodified, independent one from another.

“Oligonucleoside” means an oligonucleotide in which the internucleoside linkages do not contain a phosphorus atom.

25 “Unmodified nucleotide” means a nucleotide composed of naturally occurring nucleobases, sugar moieties and internucleoside linkages. In certain embodiments, an unmodified nucleotide is an RNA nucleotide (i.e., β -D-ribonucleosides) or a DNA nucleotide (i.e., β -D-deoxyribonucleoside).

“Antisense oligonucleotide” means a single-stranded oligonucleotide having a nucleobase sequence that will permits hybridization to a corresponding region of a target nucleic acid.

30 “Motif” means the pattern of unmodified and modified nucleosides in an antisense compound.

“Chimeric antisense compounds” means an antisense compounds that have at least 2 chemically distinct regions, each region having a plurality of subunits. A “gapmer” means an

antisense compound in which an internal position having a plurality of nucleotides that supports RNaseH cleavage is positioned between external regions having one or more nucleotides that are chemically distinct from the nucleosides of the internal region. A “gap segment” means the plurality of nucleotides that make up the internal region of a gapmer. A “wing segment” means
5 the external region of a gapmer.

“Gap-widened” means an antisense compound has a gap segment of 12 or more contiguous 2'-deoxyribonucleotides positioned between 5' and 3' wing segments having from one to six nucleotides having modified sugar moieties.

“Nucleoside” means a nucleobase linked to a sugar.

10 “Nucleobase” means a heterocyclic base moiety capable of pairing with a base of another nucleic acid.

“Nucleotide” means a nucleoside having a phosphate group covalently linked to the sugar portion of the nucleoside.

15 “Nucleobase sequence” means the order of contiguous nucleobases independent of any sugar, linkage, and/or nucleobase modification.

“Modified nucleotide” means a nucleotide having, independently, a modified sugar moiety, modified internucleoside linkage, or modified nucleobase.

“Modified nucleoside” means a nucleotide having, independently, a modified sugar moiety or modified nucleobase.

20 “Contiguous nucleobases” means nucleobases immediately adjacent to each other.

“Modified oligonucleotide” means an oligonucleotide comprising a modified internucleoside linkage, a modified sugar, and/or a modified nucleobase.

“Single-stranded modified oligonucleotide” means a modified oligonucleotide which is not hybridized to a complementary strand.

25 “Internucleoside linkage” refers to the chemical bond between nucleosides.

“Linked nucleoside” means adjacent nucleosides which are bonded together.

“Linked deoxynucleoside” means a nucleic acid base (A, G, C, T, U) substituted by deoxyribose linked by a phosphate ester to form a nucleotide.

“Naturally occurring internucleoside linkage” means a 3' to 5' phosphodiester linkage.

30 “Modified internucleoside linkage” means substitution and/or any change from a naturally occurring internucleoside bond. In certain instances, the modified internucleoside linkage refers to a phosphodiester internucleoside bond.

“Phosphorothioate linkage” means a linkage between nucleosides where the phosphodiester bond is modified by replacing one of the non-bridging oxygen atoms with a sulfur atom. A phosphorothioate linkage is a modified internucleoside linkage.

“Modified sugar moiety” means substitution and/or any change from a natural sugar moiety. For the purposes of this disclosure, a “natural sugar moiety” is a sugar moiety found in DNA (2'-H) or RNA (2'-OH).

“Modified sugar” refers to a substitution and /or any change from a natural sugar.

“Bicyclic sugar” means a furosyl ring modified by the bridging of the two non-geminal ring atoms. A bicyclic sugar is a modified sugar.

“Modified nucleobase” means any nucleobase other than adenine, cytosine, guanine, thymidine, or uracil. An “unmodified nucleobase” means the purine bases adenine (A) and guanine (G), and the pyrimidine bases thymine (T), cytosine (C) and uracil (U).

“Modified sugar moiety” means a sugar moiety having a substitution and/or any change from a natural sugar moiety.

“Natural sugar moiety” means a sugar moiety found in DNA (2'-H) or RNA (2'-OH).

“2'-O-methoxyethyl sugar moiety” means a 2'-substituted furosyl ring having a 2'-O(CH₂)₂-OCH₃ (2'-O-methoxyethyl or 2'-MOE) substituent group.

“2'-O-methoxyethyl nucleotide” means a nucleotide comprising a 2'-O-methoxyethyl modified sugar moiety.

“2'-O-methoxyethyl” refers to an O-methoxy-ethyl modification of the 2' position of a furosyl ring. A 2'-O-methoxyethyl modified sugar is a modified sugar.

“Bicyclic nucleic acid sugar moiety” means a furosyl ring modified by the bridging of two non-geminal ring atoms.

“5-methylcytosine” means a cytosine modified with a methyl group attached to the 5' position. A 5-methylcytosine is a modified nucleobase.

“Prodrug” means a therapeutic agent that is prepared in an inactive form that is converted to an active form (i.e., drug) within the body or cells thereof by the action of endogenous enzymes or other chemicals and/or conditions.

“Pharmaceutically acceptable salts” means physiologically and pharmaceutically acceptable salts of antisense compounds, i.e., salts that retain the desired biological activity of the parent oligonucleotide and do not impart undesired toxicological effects thereto.

“Salts” refers to physiologically and pharmaceutically acceptable salts of antisense compounds, i.e., salts that retain the desired biological activity of the parent oligonucleotide and do not impart undesired toxicological effects thereto.

“Cures” means a method or course that restores health or a prescribed treatment for an illness.

“Slows progression” means decrease in the development of the said disease.

“Cap structure” or “terminal cap moiety” means chemical modifications, which have been incorporated at either terminus of an antisense compound.

“ISIS 301012” means a lipid-lowering agent that is an antisense oligonucleotide having the sequence “GCCTCAGTCTGCTTCGCACC” (SEQ ID NO: 457), where each internucleoside linkage is a phosphorothioate internucleoside linkage, each cytosine is a 5-methylcytosine, nucleotides 6-15 are 2'-deoxynucleotides, and nucleotides 1-5 and 16-20 are 2'-O-methoxyethyl nucleotides.

15 *Overview*

Elevated levels of LDL-cholesterol (LDL-C) are recognized as a major independent risk factor for coronary heart disease (CHD). Even in individuals undergoing aggressive treatment with currently available cholesterol-lowering agents to reduce LDL-cholesterol (LDL-C) levels, coronary events still occur, and elevated LDL-C levels remain a major risk factor for coronary heart disease in these individuals. Furthermore, many individuals undergoing LDL-lowering therapy do not reach their target LDL-C levels, and thus remain at risk for CHD. Accordingly, there is a need for additional LDL-C lowering agents.

The antisense compounds and methods provided herein are useful for the treatment of hypercholesterolemia. Treatment of hypercholesterolemia encompasses a therapeutic regimen that results in a clinically desirable outcome. For example, the antisense compounds and methods provided herein are useful for the treatment of elevated cholesterol, such as elevated LDL-C. In addition, the antisense compounds and methods provided herein may be used to reduce the risk of CHD, in individuals exhibiting one or more risk factors for CHD. Furthermore, the antisense compounds and methods provided herein may be used to treat and/or prevent atherosclerosis.

As illustrated herein, administration of an antisense oligonucleotide targeted to PCSK9 to animals fed a high-fat diet (an experimental model of hyperlipidemia) resulted in antisense inhibition of PCSK9, upregulation of the LDL-R, reduction of LDL-C levels, and reduction of liver triglycerides. Thus, it is demonstrated that in an experimental model of hyperlipidemia,

antisense inhibition of PCSK9 results in lowering LDL-C levels. Accordingly, provided herein are methods for the treatment of reducing LDL-C levels through the administration of an antisense compound targeted to a PCSK9 nucleic acid. Increased LDL-C levels are considered a risk factor for CHD, and are also linked to atherosclerosis. Accordingly, also provided herein are methods for the reduction of CHD risk, and for the prevention and/or treatment of atherosclerosis. Also provided herein are methods for the treatment of conditions characterized by elevated liver triglycerides, such as hepatic steatosis.

Certain Indications

10 In certain embodiments, the invention provides methods of treating an individual comprising administering one or more pharmaceutical compositions of the present invention. In certain embodiments, the individual has hypercholesterolemia, mixed dyslipidemia, atherosclerosis, a risk of developing atherosclerosis, coronary heart disease, a history of coronary heart disease, early onset coronary heart disease, acute coronary syndrome, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, 15 dyslipidemia, hypertriglyceridemia, hyperlipidemia, hyperfattyacidemia, hepatic steatosis, non-alcoholic steatohepatitis, or non-alcoholic fatty liver disease.

Guidelines for lipid-lowering therapy were established in 2001 by Adult Treatment Panel III (ATP III) of the National Cholesterol Education Program (NCEP), and updated in 2004 (Grundy et al., *Circulation*, 2004, 110, 227-239). The guidelines include obtaining a complete lipoprotein profile, typically after a 9 to 12 hour fast, for determination of LDL-C, total cholesterol, and HDL-C levels. According to the most recently established guidelines, LDL-C levels of 130-159 mg/dL, 160-189 mg/dL, and greater than or equal to 190 mg/dL are considered 20 borderline high, high, and very high, respectively. Total cholesterol levels of 200-239 and greater than or equal to 240 mg/dL are considered borderline high and high, respectively. HDL-C levels of less than 40 mg/dL are considered low.

In certain embodiments, the individual has been identified as in need of lipid-lowering therapy. In certain such embodiments, the individual has been identified as in need of lipid-lowering therapy according to the guidelines established in 2001 by Adult Treatment Panel III (ATP III) of the National Cholesterol Education Program (NCEP), and updated in 2004 (Grundy et al., *Circulation*, 2004, 110, 227-239). In certain such embodiments, the individual in need of lipid-lowering therapy has LDL-C above 190 mg/dL. In certain such embodiments, the individual in need of lipid-lowering therapy has LDL-C above 160 mg/dL. In certain such 30

embodiments, the individual in need of lipid-lowering therapy has LDL-C above 130 mg/dL. In certain such embodiments, the individual in need of lipid-lowering therapy has LDL-C above 100 mg/dL. In certain such embodiments, the individual in need of lipid-lowering therapy should maintain LDL-C below 160 mg/dL. In certain such embodiments, the individual in need of lipid-lowering therapy should maintain LDL-C below 130 mg/dL. In certain such embodiments, the individual in need of lipid-lowering therapy should maintain LDL-C below 100 mg/dL. In certain such embodiments, the individual should maintain LDL-C below 70 mg/dL or even below 50 mg/dL.

In certain embodiments, the invention provides methods for reducing ApoB in an individual. In certain embodiments, the invention provides methods for reducing ApoB-containing lipoprotein in an individual. In certain embodiments, the invention provides methods for reducing LDL-C in an individual. In certain embodiments, the invention provides methods for reducing VLDL-C in an individual. In certain embodiments, the invention provides methods for reducing IDL-C in an individual. In certain embodiments, the invention provides methods for reducing non-HDL-C in an individual. In certain embodiments the invention provides methods for reducing Lp(a) in an individual. In certain embodiments, the invention provides methods for reducing serum triglyceride in an individual. In certain embodiments, the invention provides methods for reducing liver triglyceride in an individual. In certain embodiments, the invention provides methods for reducing Ox-LDL-C in an individual. In certain embodiments, the invention provides methods for reducing small LDL particles in an individual. In certain embodiments, the invention provides methods for reducing small VLDL particles in an individual. In certain embodiments, the invention provides methods for reducing phospholipids in an individual. In certain embodiments, the invention provides methods for reducing oxidized phospholipids in an individual.

In certain embodiments, the methods provided by the present invention do not lower HDL-C. In certain embodiments, the methods provided by the present invention do not result in accumulation of lipids in the liver.

In one embodiment are methods for decreasing LDL-C levels, or alternatively methods for treating hypercholesterolemia, by administering to an individual suffering from elevated LDL-C levels a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid. In another embodiment, a method of decreasing LDL-C levels comprises selecting an individual in need of a decrease in LDL-C levels, and administering to the individual a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid. In

a further embodiment, a method of reducing coronary heart disease risk includes selecting an individual having elevated LDL-C levels and one or more additional indicators of coronary heart disease risk, and administering to the individual a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid.

5 In other embodiments, the LDL-C level is from 100-129 mg/dL, from 130 to 159 mg/dL, from 160-189 mg/dL, or greater than or equal to 190 mg/dL.

In one embodiment, administration of a therapeutically effective amount of an antisense compound targeted to a PCSK9 nucleic acid is accompanied by monitoring of LDL-C levels in the serum of an individual, to determine an individual's response to administration of the
10 antisense compound. An individual's response to administration of the antisense compound is used by a physician to determine the amount and duration of therapeutic intervention.

In one embodiment, administration of an antisense compound targeted to a PCSK9 nucleic acid results in LDL-C levels below 190 mg/dL, below 160 mg/dL, below 130 mg/dL, below 100 mg/dL, below 70 mg/dL, or below 50 mg/dL. In another embodiment, administration
15 of an antisense compound targeted to a PCSK9 nucleic acid decreases LDL-C by at least 15%, by at least 25%, by at least 50%, by at least 60%, by at least 70%, by at least 75%, by at least 80%, by at least 85%, by at least 90%, or by at least 95%.

An individual having elevated LDL-C levels may also exhibit reduced HDL-C levels and/or elevated total cholesterol levels. Accordingly, in one embodiment a therapeutically
20 effective amount of an antisense compound targeted to a PCSK9 nucleic acid is administered to an individual having elevated LDL-C levels, who also has reduced HDL-C levels and/or elevated total cholesterol levels.

Individuals having elevated LDL-C levels may also exhibit elevated triglyceride levels. Accordingly, in one embodiment a therapeutically effective amount of an antisense compound
25 targeted to a PCSK9 nucleic acid is administered to an individual having elevated LDL-C levels, and also having elevated triglyceride levels.

Atherosclerosis can lead to coronary heart disease, stroke, or peripheral vascular disease. Elevated LDL-C levels are considered a risk factor in the development and progression of atherosclerosis. Accordingly, in one embodiment, a therapeutically effective amount of an
30 antisense compound targeted to a PCSK9 nucleic acid is administered to an individual having atherosclerosis. In a further embodiment, a therapeutically effective amount of antisense compound targeted to a PCSK9 nucleic acid is administered to an individual susceptible to atherosclerosis. Atherosclerosis is assessed directly through routine imaging techniques such as,

for example, ultrasound imaging techniques that reveal carotid intimomedial thickness. Accordingly, treatment and/or prevention of atherosclerosis further include monitoring atherosclerosis through routine imaging techniques. In one embodiment, administration of an antisense compound targeted to a PCSK9 nucleic acid leads to a lessening of the severity of atherosclerosis, as indicated by, for example, a reduction of carotid intimomedial thickness in arteries.

Measurements of cholesterol, lipoproteins and triglycerides are obtained using serum or plasma collected from an individual. Methods of obtaining serum or plasma samples are routine, as are methods of preparation of the serum samples for analysis of cholesterol, triglycerides, and other serum markers.

A physician may determine the need for therapeutic intervention for individuals in cases where more or less aggressive LDL-lowering therapy is needed. The practice of the methods herein may be applied to any altered guidelines provided by the NCEP, or other entities that establish guidelines for physicians used in treating any of the diseases or conditions listed herein, for determining coronary heart disease risk and diagnosing metabolic syndrome.

In one embodiment, administration of an antisense compound targeted to a PCSK9 nucleic acid is parenteral administration. Parenteral administration may be intravenous or subcutaneous administration. Accordingly, in another embodiment, administration of an antisense compound targeted to a PCSK9 nucleic acid is intravenous or subcutaneous administration. Administration may include multiple doses of an antisense compound targeted to a PCSK9 nucleic acid.

In certain embodiments, a pharmaceutical composition comprising an antisense compound targeted to PCSK9 is for use in therapy. In certain embodiments, the therapy is the reduction of LDL-C, ApoB, VLDL-C, IDL-C, non-HDL-C, Lp(a), serum triglyceride, liver triglyceride, Ox-LDL-C, small LDL particles, small VLDL, phospholipids, or oxidized phospholipids in an individual. In certain embodiments, the therapy is the treatment of hypercholesterolemia, mixed dyslipidemia, atherosclerosis, a risk of developing atherosclerosis, coronary heart disease, acute coronary syndrome, a history of coronary heart disease, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, dyslipidemia, hypertriglyceridemia, hyperlipidemia, hyperfattyacidemia, hepatic steatosis, non-alcoholic steatohepatitis, or non-alcoholic fatty liver disease. In additional embodiments, the therapy is the reduction of CHD risk. In certain aspects,

the therapy is prevention of atherosclerosis. In certain embodiments, the therapy is the prevention of coronary heart disease.

In certain embodiments, a pharmaceutical composition comprising an antisense compound targeted to PCSK9 is used for the preparation of a medicament for reducing LDL-C, ApoB, VLDL-C, IDL-C, non-HDL-C, Lp(a), serum triglyceride, liver triglyceride, Ox-LDL-C, small LDL particles, small VLDL, phospholipids, or oxidized phospholipids in an individual. In certain embodiments pharmaceutical composition comprising an antisense compound targeted to PCKS9 is used for the preparation of a medicament for reducing coronary heart disease risk. In certain embodiments, an antisense compound targeted to PCSK9 is used for the preparation of a medicament for the treatment of hypercholesterolemia, mixed dyslipidemia, atherosclerosis, a risk of developing atherosclerosis, coronary heart disease, a history of coronary heart disease, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, dyslipidemia, hypertriglyceridemia, hyperlipidemia, hyperfattyacidemia, hepatic steatosis, non-alcoholic steatohepatitis, or non-alcoholic fatty liver disease.

Certain Combination Therapies

In certain embodiments, one or more pharmaceutical compositions of the present invention are co-administered with one or more other pharmaceutical agents. In certain embodiments, such one or more other pharmaceutical agents are designed to treat the same disease or condition as the one or more pharmaceutical compositions of the present invention. In certain embodiments, such one or more other pharmaceutical agents are designed to treat a different disease or condition as the one or more pharmaceutical compositions of the present invention. In certain embodiments, such one or more other pharmaceutical agents are designed to treat an undesired effect of one or more pharmaceutical compositions of the present invention. In certain embodiments, one or more pharmaceutical compositions of the present invention are co-administered with another pharmaceutical agent to treat an undesired effect of that other pharmaceutical agent. In certain embodiments, one or more pharmaceutical compositions of the present invention and one or more other pharmaceutical agents are administered at the same time. In certain embodiments, one or more pharmaceutical compositions of the present invention and one or more other pharmaceutical agents are administered at different times. In certain embodiments, one or more pharmaceutical compositions of the present invention and one or more other pharmaceutical agents are prepared together in a single formulation. In certain

embodiments, one or more pharmaceutical compositions of the present invention and one or more other pharmaceutical agents are prepared separately.

In certain embodiments, pharmaceutical agents that may be co-administered with a pharmaceutical composition of the present invention include lipid-lowering agents or LXR agonists. In certain such embodiments, pharmaceutical agents that may be co-administered with a pharmaceutical composition of the present invention include, but are not limited to atorvastatin, simvastatin, rosuvastatin, and ezetimibe. In certain such embodiments, the lipid-lowering agent is administered prior to administration of a pharmaceutical composition of the present invention. In certain such embodiments, the lipid-lowering agent is administered following administration of a pharmaceutical composition of the present invention. In certain such embodiments the lipid-lowering agent is administered at the same time as a pharmaceutical composition of the present invention. In certain such embodiments the dose of a co-administered lipid-lowering agent is the same as the dose that would be administered if the lipid-lowering agent was administered alone. In certain such embodiments the dose of a co-administered lipid-lowering agent is lower than the dose that would be administered if the lipid-lowering agent was administered alone. In certain such embodiments the dose of a co-administered lipid-lowering agent is greater than the dose that would be administered if the lipid-lowering agent was administered alone.

In certain embodiments, a co-administered lipid-lowering agent is a HMG-CoA reductase inhibitor. In certain such embodiments the HMG-CoA reductase inhibitor is a statin. In certain such embodiments, the statin is selected from, for example, atorvastatin, simvastatin, pravastatin, fluvastatin, and rosuvastatin.

In certain embodiments, a co-administered lipid-lowering agent is a cholesterol absorption inhibitor. In certain such embodiments, cholesterol absorption inhibitor is ezetimibe.

In certain embodiments, a co-administered lipid-lowering agent is a co-formulated HMG-CoA reductase inhibitor and cholesterol absorption inhibitor. In certain such embodiments the co-formulated lipid-lowering agent is ezetimibe/simvastatin.

In certain embodiments, a co-administered lipid-lowering agent is a microsomal triglyceride transfer protein inhibitor (MTP inhibitor).

In certain embodiments, a co-administered lipid-lowering agent is an oligonucleotide targeted to ApoB.

In certain embodiments, a co-administered pharmaceutical agent is a bile acid sequestrant. In certain such embodiments, the bile acid sequestrant is selected from cholestyramine, colestipol, and colesevelam.

In certain embodiments, a co-administered pharmaceutical agent is a nicotinic acid. In certain such embodiments, the nicotinic acid is selected from immediate release nicotinic acid, extended release nicotinic acid, and sustained release nicotinic acid.

In certain embodiments, a co-administered pharmaceutical agent is a fibric acid. In certain such embodiments, a fibric acid is selected from gemfibrozil, fenofibrate, clofibrate, bezafibrate, and ciprofibrate.

Further examples of pharmaceutical agents that may be co-administered with a pharmaceutical composition of the present invention include, but are not limited to, corticosteroids, including but not limited to prednisone; LXR agonists; immunoglobulins, including, but not limited to intravenous immunoglobulin (IVIg); analgesics (e.g., acetaminophen); anti-inflammatory agents, including, but not limited to non-steroidal anti-inflammatory drugs (e.g., ibuprofen, COX-1 inhibitors, and COX-2, inhibitors); salicylates; antibiotics; antivirals; antifungal agents; antidiabetic agents (e.g., biguanides, glucosidase inhibitors, insulins, sulfonylureas, and thiazolidenediones); adrenergic modifiers; diuretics; hormones (e.g., anabolic steroids, androgen, estrogen, calcitonin, progestin, somatostan, and thyroid hormones); immunomodulators; muscle relaxants; antihistamines; osteoporosis agents (e.g., biphosphonates, calcitonin, and estrogens); prostaglandins, antineoplastic agents; psychotherapeutic agents; sedatives; poison oak or poison sumac products; antibodies; and vaccines.

In certain embodiments, the pharmaceutical compositions of the present invention may be administered in conjunction with a lipid-lowering therapy. In certain such embodiments, a lipid-lowering therapy is therapeutic lifestyle change. In certain such embodiments, a lipid-lowering therapy is LDL apheresis.

25 *Antisense Compounds*

Oligomeric compounds include, but are not limited to, oligonucleotides, oligonucleosides, oligonucleotide analogs, oligonucleotide mimetics, antisense compounds, antisense oligonucleotides, and siRNAs. An oligomeric compound may be "antisense" to a target nucleic acid, meaning that it is capable of undergoing hybridization to a target nucleic acid through hydrogen bonding.

In certain embodiments, an antisense compound has a nucleobase sequence that, when written in the 5' to 3' direction, comprises the reverse complement of the target segment of a target nucleic acid to which it is targeted. In certain such embodiments, an antisense

oligonucleotide has a nucleobase sequence that, when written in the 5' to 3' direction, comprises the reverse complement of the target segment of a target nucleic acid to which it is targeted.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid is 8 to 80, 12 to 50, 12 to 30 or 15 to 30 subunits in length. In other words, antisense compounds are
5 from 8 to 80, 12 to 50, 12 to 30 or 15 to 30 linked subunits. In certain such embodiments, the antisense compounds are 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 subunits in length.

In certain embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid is 12 to 30 nucleotides in length. In certain such embodiments, an antisense oligonucleotide
10 targeted to a PCSK9 nucleic acid is 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides in length.

In certain embodiment, an antisense compound targeted to a PCSK9 nucleic acid is 15 to 30 subunits in length. In other words, antisense compounds are from 15 to 30 linked subunits. In certain such embodiments, the antisense compounds are 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25,
15 26, 27, 28, 29, or 30 subunits in length.

In certain embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid is 15 to 30 nucleotides in length. In certain such embodiments, an antisense oligonucleotide
targeted to a PCSK9 nucleic acid is 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides in length.

20 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid is 18 to 24 subunits in length. In other words, antisense compounds are from 18 to 24 linked subunits. In one embodiment, the antisense compounds are 18, 19, 20, 21, 22, 23, or 24 subunits in length.

In certain embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid is 18 to 24 nucleotides in length. In certain such embodiments, an antisense oligonucleotide
25 targeted to a PCSK9 nucleic acid is 18, 19, 20, 21, 22, 23, or 24 nucleotides in length.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid is 19 to 22 subunits in length. In other words, antisense compounds are from 19 to 22 linked subunits. This embodies antisense compounds of 19, 20, 21, or 22 subunits in length.

In certain embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid is
30 19 to 22 nucleotides in length. In certain such embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid is 19, 20, 21, or 22 nucleotides in length.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid is 20 subunits in length. In certain such embodiments, antisense compounds are 20 linked subunits in length.

In certain embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid is 5 20 nucleotides in length. In certain such embodiments, an antisense oligonucleotide targeted to an PCSK9 nucleic acid is 20 linked nucleotides in length.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common. In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence target a 10 region identified herein.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid may target the following nucleotide regions of SEQ ID NO: 1: 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 15 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-20 1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761, 1735-1765, 1740-1765, 1849-1876, 1849-25 1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879, 1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434, 2504-2528, 2509-2528, 2582-2625, 2606-30 2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common.

In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets the following nucleotide regions of SEQ ID: 1: 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761, 1735-1765, 1740-1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879, 1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434, 2504-2528, 2509-2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid may target the following nucleotide regions of SEQ ID NO: 2: 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973, 14979-14998, 15254-15280, 15254-

15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321,
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16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-
5 18668, 18695-18746, 18705-18730, 18709-18736, 18719-18746, 19203-20080, 19931-19952,
19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-
20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759,
20629-20804, 20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-
20706, 20683-20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745,
10 20719-20746, 20720-20747, 20721-20748, 20722-20749, 20727-20752, 20735-20759, 20762-
21014, 20785-21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152,
21181-21209, 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-
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22135-22162, 22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-
15 22227, 22200-22227, 22201-22228, 22202-22229, 22203-22230, 22204-22231, 22205-22232,
22206-22233, 22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-
22236, 22212-22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877,
24907-24926, 25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-
26140, 26114-26141, 26115-26141, 26116-26141, 26117-26141, 26117-26475, 26118-26141,
20 26120-26141, 26132-26151, 26142-26161, 26217-26241, 26311-26335, 26389-26432, 26456-
26576, 26635-26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, or
27350-27376.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In
certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common.
25 In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets
the following nucleotide regions of SEQ ID: 2: 2274-2400, 2274-2575, 2433-2570, 2433-2579,
2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618,
5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562,
6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573,
30 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584,
8836-8855, 8948-8967, 9099-9118, 9099-9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235,
10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-
13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423,

14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-
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14925-14951, 14934-14963, 14946-14973, 14979-14998, 15254-15280, 15254-15328, 15264-
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15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687,
17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-
18746, 18705-18730, 18709-18736, 18719-18746, 19203-20080, 19931-19952, 19954-19981,
19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-
10 20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804,
20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-
20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746,
20720-20747, 20721-20748, 20722-20749, 20727-20752, 20735-20759, 20762-21014, 20785-
21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209,
15 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-
22115, 22096-22223, 22096-22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162,
22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-
22227, 22201-22228, 22202-22229, 22203-22230, 22204-22231, 22205-22232, 22206-22233,
22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-
20 22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926,
25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-
26141, 26115-26141, 26116-26141, 26117-26141, 26117-26475, 26118-26141, 26120-26141,
26132-26151, 26142-26161, 26217-26241, 26311-26335, 26389-26432, 26456-26576, 26635-
26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376.

25 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid may
target the following nucleotide regions of SEQ ID NO: 3: 220-253, 290-321, 377-419, 451-615,
653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302,
1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425,
1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553,
30 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558,
1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626,
1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847,
1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127,

1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 5 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-3824.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common. 10 In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets the following nucleotide regions of SEQ ID: 3: 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-15 1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-19 1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-25 3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-3824.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid may target the following nucleotide regions of SEQ ID NO: 1: 320-405, 441-445, 527-544, 582-590, 744-781, 811-820, 918-922, 953-959, 1034-1036, 1152-1153, 1174-1199, 1251-1272, 1445-1464, 1603-1604, 1625-1627, 1707-1734, 1766-1811, 1832-1848, 1880-1904, 1956-1961, 1982-30 1939, 2030-2039, 2060-2099, 2140-2149, 2170-2186, 2207-2304, 2355-2409, 2435-2503, 2529-2581, 2626-2648, 2669-2749, 2770-2827, 2856-2876, 2891-2899, 2930-2982, 3014-3226, 3253-3436, 3457-3471, or 3497-3542.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common. In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets the following nucleotide regions of SEQ ID: 1: 320-405, 441-445, 527-544, 582-590, 744-781, 811-820, 918-922, 953-959, 1034-1036, 1152-1153, 1174-1199, 1251-1272, 1445-1464, 1603-1604, 1625-1627, 1707-1734, 1766-1811, 1832-1848, 1880-1904, 1956-1961, 1982-1939, 2030-2039, 2060-2099, 2140-2149, 2170-2186, 2207-2304, 2355-2409, 2435-2503, 2529-2581, 2626-2648, 2669-2749, 2770-2827, 2856-2876, 2891-2899, 2930-2982, 3014-3226, 3253-3436, 3457-3471, or 3497-3542.

In certain embodiments, a shortened or truncated antisense compound targeted to a PCSK9 nucleic acid has a single subunit deleted from the 5' end (5' truncation), or alternatively from the 3' end (3' truncation). A shortened or truncated antisense compound targeted to a PCSK9 nucleic acid may have two subunits deleted from the 5' end, or alternatively may have two subunits deleted from the 3' end, of the antisense compound. Alternatively, the deleted nucleosides may be dispersed throughout the antisense compound, for example, in an antisense compound having one nucleoside deleted from the 5' end and one nucleoside deleted from the 3' end.

When a single additional subunit is present in a lengthened antisense compound, the additional subunit may be located at the 5' or 3' end of the antisense compound. When two are more additional subunits are present, the added subunits may be adjacent to each other, for example, in an antisense compound having two subunits added to the 5' end (5' addition), or alternatively to the 3' end (3' addition), of the antisense compound. Alternatively, the added subunits may be dispersed throughout the antisense compound, for example, in an antisense compound having one subunit added to the 5' end and one subunit added to the 3' end.

It is possible to increase or decrease the length of an antisense compound, such as an antisense oligonucleotide, and/or introduce mismatch bases without eliminating activity. For example, in Woolf et al. (Proc. Natl. Acad. Sci. USA 89:7305-7309, 1992), a series of antisense oligonucleotides 13-25 nucleobases in length were tested for their ability to induce cleavage of a target RNA in an oocyte injection model. Antisense oligonucleotides 25 nucleobases in length with 8 or 11 mismatch bases near the ends of the antisense oligonucleotides were able to direct specific cleavage of the target mRNA, albeit to a lesser extent than the antisense oligonucleotides that contained no mismatches. Similarly, target specific cleavage was achieved using 13 nucleobase antisense oligonucleotides, including those with 1 or 3 mismatches.

Gautschi et al (J. Natl. Cancer Inst. 93:463-471, March 2001) demonstrated the ability of an oligonucleotide having 100% complementarity to the bcl-2 mRNA and having 3 mismatches to the bcl-xL mRNA to reduce the expression of both bcl-2 and bcl-xL *in vitro* and *in vivo*. Furthermore, this oligonucleotide demonstrated potent anti-tumor activity *in vivo*.

5 Maher and Dolnick (Nuc. Acid. Res. 16:3341-3358,1988) tested a series of tandem 14 nucleobase antisense oligonucleotides, and a 28 and 42 nucleobase antisense oligonucleotides comprised of the sequence of two or three of the tandem antisense oligonucleotides, respectively, for their ability to arrest translation of human DHFR in a rabbit reticulocyte assay. Each of the three 14 nucleobase antisense oligonucleotides alone was able to inhibit translation, albeit at a
10 more modest level than the 28 or 42 nucleobase antisense oligonucleotides.

PCT/US2007/068404 describes incorporation of chemically-modified high-affinity nucleotides into short antisense compounds about 8-16 nucleobases in length and that such compounds are useful in the reduction of target RNAs in animals with increased potency and improved therapeutic index.

15 In certain embodiments, antisense compounds targeted to a PCSK9 nucleic acid are short antisense compounds. In certain embodiments, such short antisense compounds are oligonucleotide compounds. In certain embodiments, such short antisense compounds are about 8 to 16, preferably 9 to 15, more preferably 9 to 14, more preferably 10 to 14 nucleotides in length and comprises a gap region flanked on each side by a wing, wherein each wing
20 independently consists of 1 to 3 nucleotides. Preferred motifs include but are not limited to wing – deoxy gap – wing motifs selected from 3-10-3, 2-10-3, 2-10-2, 1-10-1, 2-8-2, 1-8-1, 3-6-3 or 1-6-1.

Antisense compounds targeted to a PCSK9 nucleic acid are synthesized *in vitro* and do not include antisense compositions of biological origin, or genetic vector constructs designed to
25 direct the *in vivo* synthesis of antisense molecules.

In certain embodiments, an antisense compound is targeted to a region of a PCSK9 nucleic acid that does not contain a single nucleotide polymorphism (SNPs). In certain
embodiments, an antisense compound is targeted to a region of a PCSK9 nucleic acid that does contain a single nucleotide polymorph (SNPs). A single nucleotide polymorphism refers to
30 polymorphisms that are the result of a single nucleotide alteration or the existence of two or more alternative sequences which can be, for example, different allelic forms of a gene. A polymorphism may comprise one or more base changes including, for example, an insertion, a repeat, or a deletion. In certain embodiments, an antisense oligonucleotide targeted to a PCSK9

nucleic acid overlaps with a SNP at the following positions: 428, 432, 449, 996, 1011, 1044, 1317, 1565, 1617, 1618, 1671, 1711, 1722, 1836, 1911. In certain embodiments, the compounds provided herein that target a region of a PCSK9 nucleic acid that contains one or more SNPs will contain the appropriate base substitution, insertion, repeat or deletion such that the compound is
5 fully complementary to the altered PCSK9 nucleic acid sequence.

Antisense Compound Motifs

In certain embodiments, antisense compounds targeted to a PCSK9 nucleic acid have chemically modified subunits arranged in patterns, or motifs, to confer to the antisense
10 compounds properties such as enhanced the inhibitory activity, increased binding affinity for a target nucleic acid, or resistance to degradation by *in vivo* nucleases.

Chimeric antisense compounds typically contain at least one region modified so as to confer increased resistance to nuclease degradation, increased cellular uptake, increased binding affinity for the target nucleic acid, and/or increased inhibitory activity. A second region of a
15 chimeric antisense compound may serve as a substrate for the cellular endonuclease RNase H, which cleaves the RNA strand of an RNA:DNA duplex.

Antisense compounds having a gapmer motif are considered chimeric antisense compounds. In a gapmer an internal position having a plurality of nucleotides that supports RNaseH cleavage is positioned between external regions having a plurality of nucleotides that
20 are chemically distinct from the nucleosides of the internal region. In the case of an antisense oligonucleotide having a gapmer motif, the gap segment generally serves as the substrate for endonuclease cleavage, while the wing segments comprise modified nucleosides. The regions of a gapmer are differentiated by the types of sugar moieties comprising each distinct region. The types of sugar moieties that are used to differentiate the regions of a gapmer may in some
25 embodiments include β -D-ribonucleosides, β -D-deoxyribonucleosides, 2'-modified nucleosides (such 2'-modified nucleosides may include 2'-MOE, and 2'-O-CH₃, among others), and bicyclic sugar modified nucleosides (such bicyclic sugar modified nucleosides may include those having a 4'-(CH₂)_n-O-2' bridge, where n=1 or n=2). In general, each distinct region comprises uniform sugar moieties. The wing-gap-wing motif is frequently described as "X-Y-Z", where "X"
30 represents the length of the 5' wing region, "Y" represents the length of the gap region, and "Z" represents the length of the 3' wing region.

In some embodiments, an antisense compound targeted to a PCSK9 nucleic acid has a gap-widened motif. In other embodiments, an antisense oligonucleotide targeted to a PCSK9 nucleic acid has a gap-widened motif.

The gap-widened antisense oligonucleotides described herein may have various wing-gap-wing motifs selected from: 1-16-1, 2-15-1, 1-15-2, 1-14-3, 3-14-1, 2-14-2, 1-13-4, 4-13-1, 2-13-3, 3-13-2, 1-12-5, 5-12-1, 2-12-4, 4-12-2, 3-12-3, 1-11-6, 6-11-1, 2-11-5, 5-11-2, 3-11-4, 4-11-3, 1-17-1, 2-16-1, 1-16-2, 1-15-3, 3-15-1, 2-15-2, 1-14-4, 4-14-1, 2-14-3, 3-14-2, 1-13-5, 5-13-1, 2-13-4, 4-13-2, 3-13-3, 1-12-6, 6-12-1, 2-12-5, 5-12-2, 3-12-4, 4-12-3, 1-11-7, 7-11-1, 2-11-6, 6-11-2, 3-11-5, 5-11-3, 4-11-4, 1-18-1, 1-17-2, 2-17-1, 1-16-3, 1-16-3, 2-16-2, 1-15-4, 4-15-1, 2-15-3, 3-15-2, 1-14-5, 5-14-1, 2-14-4, 4-14-2, 3-14-3, 1-13-6, 6-13-1, 2-13-5, 5-13-2, 3-13-4, 4-13-3, 1-12-7, 7-12-1, 2-12-6, 6-12-2, 3-12-5, 5-12-3, 4-12-4, 1-11-8, 8-11-1, 2-11-7, 7-11-2, 3-11-6, 6-11-3, 4-11-5, 5-11-4, 1-18-1, 1-17-2, 2-17-1, 1-16-3, 3-16-1, 2-16-2, 1-15-4, 4-15-1, 2-15-3, 3-15-2, 1-14-5, 2-14-4, 4-14-2, 3-14-3, 1-13-6, 6-13-1, 2-13-5, 5-13-2, 3-13-4, 4-13-3, 1-12-7, 7-12-1, 2-12-6, 6-12-2, 3-12-5, 5-12-3, 4-12-4, 1-11-8, 8-11-1, 2-11-7, 7-11-2, 3-11-6, 6-11-3, 4-11-5, 5-11-4, 1-19-1, 1-18-2, 2-18-1, 1-17-3, 3-17-1, 2-17-2, 1-16-4, 4-16-1, 2-16-3, 3-16-2, 1-15-5, 2-15-4, 4-15-2, 3-15-3, 1-14-6, 6-14-1, 2-14-5, 5-14-2, 3-14-4, 4-14-3, 1-13-7, 7-13-1, 2-13-6, 6-13-2, 3-13-5, 5-13-3, 4-13-4, 1-12-8, 8-12-1, 2-12-7, 7-12-2, 3-12-6, 6-12-3, 4-12-5, 5-12-4, 2-11-8, 8-11-2, 3-11-7, 7-11-3, 4-11-6, 6-11-4, 5-11-5, 1-20-1, 1-19-2, 2-19-1, 1-18-3, 3-18-1, 2-18-2, 1-17-4, 4-17-1, 2-17-3, 3-17-2, 1-16-5, 2-16-4, 4-16-2, 3-16-3, 1-15-6, 6-15-1, 2-15-5, 5-15-2, 3-15-4, 4-15-3, 1-14-7, 7-14-1, 2-14-6, 6-14-2, 3-14-5, 5-14-3, 4-14-4, 1-13-8, 8-13-1, 2-13-7, 7-13-2, 3-13-6, 6-13-3, 4-13-5, 5-13-4, 2-12-8, 8-12-2, 3-12-7, 7-12-3, 4-12-6, 6-12-4, 5-12-5, 3-11-8, 8-11-3, 4-11-7, 7-11-4, 5-11-6, 6-11-5, 1-21-1, 1-20-2, 2-20-1, 1-20-3, 3-19-1, 2-19-2, 1-18-4, 4-18-1, 2-18-3, 3-18-2, 1-17-5, 2-17-4, 4-17-2, 3-17-3, 1-16-6, 6-16-1, 2-16-5, 5-16-2, 3-16-4, 4-16-3, 1-15-7, 7-15-1, 2-15-6, 6-15-2, 3-15-5, 5-15-3, 4-15-4, 1-14-8, 8-14-1, 2-14-7, 7-14-2, 3-14-6, 6-14-3, 4-14-5, 5-14-4, 2-13-8, 8-13-2, 3-13-7, 7-13-3, 4-13-6, 6-13-4, 5-13-5, 1-12-10, 10-12-1, 2-12-9, 9-12-2, 3-12-8, 8-12-3, 4-12-7, 7-12-4, 5-12-6, 6-12-5, 4-11-8, 8-11-4, 5-11-7, 7-11-5, 6-11-6, 1-22-1, 1-21-2, 2-21-1, 1-21-3, 3-20-1, 2-20-2, 1-19-4, 4-19-1, 2-19-3, 3-19-2, 1-18-5, 2-18-4, 4-18-2, 3-18-3, 1-17-6, 6-17-1, 2-17-5, 5-17-2, 3-17-4, 4-17-3, 1-16-7, 7-16-1, 2-16-6, 6-16-2, 3-16-5, 5-16-3, 4-16-4, 1-15-8, 8-15-1, 2-15-7, 7-15-2, 3-15-6, 6-15-3, 4-15-5, 5-15-4, 2-14-8, 8-14-2, 3-14-7, 7-14-3, 4-14-6, 6-14-4, 5-14-5, 3-13-8, 8-13-3, 4-13-7, 7-13-4, 5-13-6, 6-13-5, 4-12-8, 8-12-4, 5-12-7, 7-12-5, 6-12-6, 5-11-8, 8-11-5, 6-11-7, or 7-11-6. In certain preferred embodiments, a gap-widened motif includes, but is not limited to, 2-13-5, 3-14-3, 3-14-4 gapmer motif.

In one embodiment, a gap-widened antisense oligonucleotide targeted to a PCSK9 nucleic acid has a gap segment of fourteen 2'-deoxyribonucleotides positioned between wing segments of three chemically modified nucleosides. In one embodiment, the chemical modification comprises a 2'-sugar modification. In another embodiment, the chemical modification comprises a 2'-MOE sugar modification.

In one embodiment, antisense compounds targeted to a PCSK9 nucleic acid possess a 5-10-5 gapmer motif.

Target Nucleic Acids, Target Regions and Nucleotide Sequences

Nucleotide sequences that encode PCSK9 include, without limitation, the following: GENBANK® Accession No. NM_174936.2, first deposited with GENBANK® on June 1, 2003, and incorporated herein as SEQ ID NO: 1; nucleotides 25475000 to 25504000 of GENBANK® Accession No. NT_032977.8, first deposited with GENBANK® on February 26, 2006, and incorporated herein as SEQ ID NO: 2; and GENBANK® Accession No. AK124635.1, first deposited with GENBANK® on September 8, 2003, and incorporated herein as SEQ ID NO: 3.

It is noted that some portions of these nucleotide sequences share identical sequence. For example, portions of SEQ ID NO: 1 are identical to portions of SEQ ID NO: 2; portions of SEQ ID NO: 1 are identical to portions of SEQ ID NO: 3; and portions of SEQ ID NO: 2 are identical to portions of SEQ ID NO: 3. Accordingly, antisense compounds targeted to SEQ ID NO: 1 may also target SEQ ID NO: 2 and/or SEQ ID NO: 3; antisense compounds targeted to SEQ ID NO: 2 may also target SEQ ID NO: 1 and/or SEQ ID NO: 3; and antisense compounds targeted to SEQ ID NO: 3 may also target SEQ ID NO: 1 and/or SEQ ID NO: 2. Examples of such antisense compounds are shown in the following tables.

In certain embodiments, antisense compounds target a PCSK9 nucleic acid having the sequence of GENBANK® Accession No. NM_174936.2, first deposited with GENBANK® on June 1, 2003, and incorporated herein as SEQ ID NO: 1. In certain such embodiments, an antisense oligonucleotide targets SEQ ID NO: 1. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 1 is at least 90% complementary to SEQ ID NO: 1. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 1 is at least 95% complementary to SEQ ID NO: 1. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 1 is 100% complementary to SEQ ID NO: 1. In certain embodiments, an antisense oligonucleotide targeted to SEQ ID NO: 1 comprises a nucleotide sequence selected from the nucleotide sequences set forth in Table 1.

Table 1: Nucleotide sequences targeted to NM_174936.2 (SEQ ID NO: 1)

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
4	135	154	GCGCGGAATCCTGGCTGGGA
5	242	261	GAGGAGACCTAGAGGCCGTG
159	294	313	GCCTGGAGCTGACGGTGCCC
160	298	317	GACCGCCTGGAGCTGACGGT
6	300	319	AGGACCGCCTGGAGCTGACG
162	406	425	AAGGCTAGCACCAGCTCCTC
163	407	426	CAAGGCTAGCACCAGCTCCT
164	408	427	GCAAGGCTAGCACCAGCTCC
165	409	428	CGCAAGGCTAGCACCAGCTC
7	410	429	ACGCAAGGCTAGCACCAGCT
166	411	430	AACGCAAGGCTAGCACCAGC
167	412	431	GAACGCAAGGCTAGCACCAG
168	413	432	GGAACGCAAGGCTAGCACCA
169	414	433	CGGAACGCAAGGCTAGCACC
8	417	436	CCTCGGAACGCAAGGCTAGC
170	421	440	TCCTCCTCGGAACGCAAGGC
171	446	465	GTGCTCGGGTGCTTCGGCCA
172	466	485	TGGAAGGTGGCTGTGGTTCC
9	480	499	CCTTGGCGCAGCGGTGGAAG
173	482	501	ATCCTTGGCGCAGCGGTGGA
174	484	503	GGATCCTTGGCGCAGCGGTG
175	488	507	CCACGGATCCTTGGCGCAGC
176	507	526	CGTAGGTGCCAGGCAACCTC
177	545	564	TGACTGCGAGAGGTGGGTCT
178	555	574	CAGTGCCTCTGACTGCGAG
179	557	576	GGCAGTGCCTCTGACTGCG
180	559	578	CGGGCAGTGCCTCTGACTG
10	561	580	GCGGGCAGTGCCTCTGAC
181	562	581	CGGCGGGCAGTGCCTCTGA
182	591	610	ATCCCCGGCGGGCAGCCTGG
183	595	614	AGGTATCCCCGGCGGGCAGC
184	597	616	TGAGGTATCCCCGGCGGGCA
185	598	617	GTGAGGTATCCCCGGCGGGC
186	599	618	GGTGAGGTATCCCCGGCGGG
11	600	619	TGGTGAGGTATCCCCGGCGG
187	601	620	TTGGTGAGGTATCCCCGGCG
188	602	621	CTTGGTGAGGTATCCCCGGC
189	603	622	TCTTGGTGAGGTATCCCCGG
190	604	623	ATCTTGGTGAGGTATCCCCG
191	605	624	GATCTTGGTGAGGTATCCCC
12	606	625	GGATCTTGGTGAGGTATCCC
192	607	626	AGGATCTTGGTGAGGTATCC
193	609	628	GCAGGATCTTGGTGAGGTAT

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
194	611	630	ATGCAGGATCTTGGTGAGGT
195	613	632	ACATGCAGGATCTTGGTGAG
13	615	634	AGACATGCAGGATCTTGGTG
196	617	636	GAAGACATGCAGGATCTTGG
14	620	639	ATGGAAGACATGCAGGATCT
197	628	647	AGAAGGCCATGGAAGACATG
198	638	657	GAAGCCAGGAAGAAGGCCAT
15	646	665	TTCACCAGGAAGCCAGGAAG
199	648	667	TCTTACCAGGAAGCCAGGA
16	651	670	TCATCTTACCAGGAAGCCA
200	653	672	ACTCATCTTACCAGGAAGC
201	655	674	CCACTCATCTTACCAGGAA
202	657	676	CGCCACTCATCTTACCAGG
203	659	678	GTCGCCACTCATCTTACCA
204	661	680	AGGTCGCCACTCATCTTAC
205	663	682	GCAGGTCGCCACTCATCTT
206	665	684	CAGCAGGTCGCCACTCATCT
207	667	686	TCCAGCAGGTCGCCACTCAT
208	685	704	GGCAACTTCAAGGCCAGCTC
17	705	724	CCTCGATGTAGTCGACATGG
209	724	743	GCAAAGACAGAGGAGTCCTC
210	782	801	TTCATCCGCCCGGTACCGTG
211	784	803	TATTCATCCGCCCGGTACCG
18	785	804	GTATTCATCCGCCCGGTACC
212	787	806	TGGTATTCATCCGCCCGGTA
213	789	808	GCTGGTATTCATCCGCCCGG
214	791	810	GGGCTGGTATTCATCCGCC
215	821	840	ATACACCTCCACCAGGCTGC
216	832	851	GTGTCTAGGAGATACACCTC
19	835	854	CTGGTGTCTAGGAGATACAC
217	837	856	TGCTGGTGTCTAGGAGATAC
20	840	859	GTATGCTGGTGTCTAGGAGA
21	860	879	GATTTCCCGGTGGTCACTCT
218	862	881	TCGATTTCCCGGTGGTCACT
219	863	882	CTCGATTTCCCGGTGGTCAC
220	864	883	CCTCGATTTCCCGGTGGTCA
221	865	884	CCCTCGATTTCCCGGTGGTC
22	866	885	GCCCTCGATTTCCCGGTGGT
222	867	886	TGCCCTCGATTTCCCGGTGG
223	868	887	CTGCCCTCGATTTCCCGGTG
224	869	888	CCTGCCCTCGATTTCCCGGT
225	870	889	CCCTGCCCTCGATTTCCCGG
226	874	893	ATGACCCTGCCCTCGATTTC
227	876	895	CCATGACCCTGCCCTCGATT
228	878	897	GACCATGACCCTGCCCTCGA
23	880	899	GTGACCATGACCCTGCCCTC
229	882	901	CGGTGACCATGACCCTGCC
230	884	903	GTCGGTGACCATGACCCTGC

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
231	886	905	AAGTCGGTGACCATGACCCT
232	888	907	CGAAGTCGGTGACCATGACC
24	890	909	CTCGAAGTCGGTGACCATGA
233	898	917	GGCACATTCTCGAAGTCGGT
25	923	942	GTGGAAGCGGGTCCCGTCCT
234	933	952	TGGCCTGTCTGTGGAAGCGG
235	960	979	GGTGGGTGCCATGACTGTCA
236	963	982	CCAGGTGGGTGCCATGACTG
237	967	986	CCTGCCAGGTGGGTGCCATG
26	970	989	ACCCCTGCCAGGTGGGTGCC
238	972	991	CCACCCCTGCCAGGTGGGTG
27	975	994	TGACCACCCCTGCCAGGTGG
239	977	996	GCTGACCACCCCTGCCAGGT
240	985	1004	TCCCGGCCGCTGACCACCC
241	989	1008	GGCATCCCGGCCGCTGACCA
242	992	1011	GCCGGCATCCCGGCCGCTGA
243	997	1016	GCCACGCCGGCATCCCGGCC
244	998	1017	GGCCACGCCGGCATCCCGGC
245	999	1018	TGGCCACGCCGGCATCCCGG
246	1000	1019	TTGGCCACGCCGGCATCCCG
247	1001	1020	CTTGGCCACGCCGGCATCCC
248	1002	1021	CCTTGGCCACGCCGGCATCC
249	1003	1022	CCCTTGGCCACGCCGGCATC
28	1004	1023	ACCCTTGGCCACGCCGGCAT
447	1004	1023	ACCCTTGGTCACGCCGGCAT
250	1005	1024	CACCCTTGGCCACGCCGGCA
251	1006	1025	GCACCCTTGGCCACGCCGGC
252	1007	1026	GGCACCCCTTGGCCACGCCGG
253	1008	1027	TGGCACCCCTTGGCCACGCCG
254	1009	1028	CTGGCACCCCTTGGCCACGCC
255	1010	1029	GCTGGCACCCCTTGGCCACGC
256	1015	1034	CGCATGCTGGCACCCCTTGGC
257	1036	1055	CAGTTGAGCACGCGCAGGCT
258	1038	1057	GGCAGTTGAGCACGCGCAGG
29	1040	1059	TTGGCAGTTGAGCACGCGCA
259	1042	1061	CCTTGGCAGTTGAGCACGCG
30	1045	1064	TTCCCTTGGCAGTTGAGCAC
260	1047	1066	CCTTCCCTTGGCAGTTGAGC
261	1051	1070	GTGCCCTTCCCTTGGCAGTT
262	1053	1072	CCGTGCCCTTCCCTTGGCAG
263	1064	1083	GGTGCCGCTAACCGTGCCCT
264	1076	1095	CAGGCCTATGAGGGTGCCG
31	1077	1096	CCAGGCCTATGAGGGTGCCG
458	1079	1092	GCCTATGAGGGTGC
459	1084	1097	TCCAGGCCTATGAG
265	1088	1107	CCGAATAAACTCCAGGCCTA
266	1096	1115	TGGCTTTTCCGAATAAACTC
32	1098	1117	GCTGGCTTTTCCGAATAAAC

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
267	1100	1119	CAGCTGGCTTTTCCGAATAA
268	1102	1121	ACCAGCTGGCTTTTCCGAAT
269	1104	1123	GGACCAGCTGGCTTTTCCGA
270	1108	1127	GGCTGGACCAGCTGGCTTTT
271	1119	1138	GTGGCCCCACAGGCTGGACC
272	1132	1151	AGCAGCACCACCAGTGGCCC
273	1154	1173	GCTGTACCCACCCGCCAGGG
274	1200	1219	CGACCCCAGCCCTCGCCAGG
33	1210	1229	GTGACCAGCACGACCCCAGC
275	1212	1231	CGGTGACCAGCACGACCCCA
276	1214	1233	AGCGGTGACCAGCACGACCC
277	1216	1235	GCAGCGGTGACCAGCACGAC
278	1218	1237	CGGCAGCGGTGACCAGCACG
279	1219	1238	CCGGCAGCGGTGACCAGCAC
280	1222	1241	TTGCCGGCAGCGGTGACCAG
281	1224	1243	AGTTGCCGGCAGCGGTGACC
282	1226	1245	GAAGTTGCCGGCAGCGGTGA
283	1228	1247	CGGAAGTTGCCGGCAGCGGT
284	1230	1249	CCCGGAAGTTGCCGGCAGCG
285	1232	1251	GTCCCGGAAGTTGCCGGCAG
286	1273	1292	ATGACCTCGGGAGCTGAGGC
287	1283	1302	CCCAACTGTGATGACCTCGG
288	1295	1314	GGCATTGGTGGCCCCAACTG
149	1297	1316	TGGGCATTGGTGGCCCCAAC
289	1305	1324	GCTGGTCTTGGGCATTGGTG
290	1318	1337	CCCAGGGTCACCGGCTGGTC
291	1320	1339	TCCCAGGGTCACCGGCTGG
292	1322	1341	AGTCCCAGGGTCACCGGCT
293	1324	1343	AAAGTCCCAGGGTCACCGG
34	1326	1345	CCAAAGTCCCAGGGTCACC
294	1328	1347	CCCCAAAGTCCCAGGGTCA
128	1330	1349	GTCCCCAAAGTCCCAGGGT
295	1333	1352	TTGGTCCCCAAAGTCCCAG
35	1335	1354	AGTTGGTCCCCAAAGTCCCC
296	1337	1356	AAAGTTGGTCCCCAAAGTCC
36	1340	1359	GCCAAAGTTGGTCCCCAAAG
297	1342	1361	CGGCCAAAGTTGGTCCCCAA
298	1344	1363	AGCGGCCAAAGTTGGTCCCC
299	1346	1365	ACAGCGGCCAAAGTTGGTCC
300	1348	1367	ACACAGCGGCCAAAGTTGGT
301	1350	1369	CCACACAGCGGCCAAAGTTG
37	1352	1371	GTCCACACAGCGGCCAAAGT
302	1354	1373	AGGTCCACACAGCGGCCAAA
303	1356	1375	AGAGGTCCACACAGCGGCCA
304	1358	1377	AAAGAGGTCCACACAGCGGC
38	1361	1380	GGCAAAGAGGTCCACACAGC
305	1380	1399	CAATGATGTCCTCCCCTGGG
306	1387	1406	GAGGCACCAATGATGTCCTC

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
39	1389	1408	TGGAGGCACCAATGATGTCC
307	1391	1410	GCTGGAGGCACCAATGATGT
308	1393	1412	TCGCTGGAGGCACCAATGAT
309	1395	1414	AGTCGCTGGAGGCACCAATG
310	1397	1416	GCAGTCGCTGGAGGCACCAA
40	1400	1419	GCTGCAGTCGCTGGAGGCAC
311	1402	1421	GTGCTGCAGTCGCTGGAGGC
312	1404	1423	AGGTGCTGCAGTCGCTGGAG
313	1406	1425	GCAGGTGCTGCAGTCGCTGG
314	1407	1426	AGCAGGTGCTGCAGTCGCTG
315	1409	1428	AAAGCAGGTGCTGCAGTCGC
41	1411	1430	ACAAAGCAGGTGCTGCAGTC
316	1413	1432	ACACAAAGCAGGTGCTGCAG
317	1415	1434	TGACACAAAGCAGGTGCTGC
318	1425	1444	TCCCACTCTGTGACACAAAG
101	1465	1484	ATGGCTGCAATGCCAGCCAC
319	1467	1486	TCATGGCTGCAATGCCAGCC
42	1470	1489	GCATCATGGCTGCAATGCCA
320	1472	1491	CAGCATCATGGCTGCAATGC
321	1474	1493	GACAGCATCATGGCTGCAAT
322	1476	1495	CAGACAGCATCATGGCTGCA
43	1478	1497	GGCAGACAGCATCATGGCTG
323	1480	1499	TCGGCAGACAGCATCATGGC
324	1482	1501	GCTCGGCAGACAGCATCATG
325	1484	1503	CGGCTCGGCAGACAGCATCA
326	1486	1505	TCCGGCTCGGCAGACAGCAT
327	1500	1519	CGGCCAGGGTGAGCTCCGGC
328	1513	1532	CTCTGCCTCAACTCGGCCAG
329	1515	1534	GTCTCTGCCTCAACTCGGCC
330	1517	1536	CAGTCTCTGCCTCAACTCGG
331	1519	1538	ATCAGTCTCTGCCTCAACTC
332	1521	1540	GGATCAGTCTCTGCCTCAAC
333	1523	1542	GTGGATCAGTCTCTGCCTCA
334	1525	1544	AAGTGGATCAGTCTCTGCCT
44	1526	1545	GAAGTGGATCAGTCTCTGCC
335	1528	1547	GAGAAGTGGATCAGTCTCTG
336	1530	1549	CAGAGAAGTGGATCAGTCTC
337	1532	1551	GGCAGAGAAGTGGATCAGTC
45	1534	1553	TTGGCAGAGAAGTGGATCAG
338	1536	1555	CTTTGGCAGAGAAGTGGATC
46	1539	1558	CATCTTTGGCAGAGAAGTGG
339	1541	1560	GACATCTTTGGCAGAGAAGT
340	1543	1562	ATGACATCTTTGGCAGAGAA
47	1545	1564	TGATGACATCTTTGGCAGAG
341	1547	1566	ATTGATGACATCTTTGGCAG
342	1549	1568	TCATTGATGACATCTTTGGC
48	1552	1571	GCCTCATTGATGACATCTTT
343	1554	1573	AGGCCTCATTGATGACATCT

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
344	1556	1575	CCAGGCCTCATTGATGACAT
345	1558	1577	AACCAGGCCTCATTGATGAC
346	1560	1579	GGAACCAGGCCTCATTGATG
347	1561	1580	GGGAACCAGGCCTCATTGAT
348	1562	1581	AGGGAACCAGGCCTCATTGA
349	1563	1582	CAGGGAACCAGGCCTCATTG
49	1564	1583	TCAGGGAACCAGGCCTCATT
49	1564	1583	TCAGGGAACCAGGCCTCATT
350	1565	1584	CTCAGGGAACCAGGCCTCAT
351	1566	1585	CCTCAGGGAACCAGGCCTCA
352	1567	1586	TCCTCAGGGAACCAGGCCTC
353	1568	1587	GTCCTCAGGGAACCAGGCCT
50	1569	1588	GGTCCTCAGGGAACCAGGCC
354	1570	1589	TGGTCCTCAGGGAACCAGGC
355	1571	1590	CTGGTCCTCAGGGAACCAGG
356	1572	1591	GCTGGTCCTCAGGGAACCAG
357	1573	1592	CGCTGGTCCTCAGGGAACCA
87	1576	1595	ACCCGCTGGTCCTCAGGGAA
358	1578	1597	GTACCCGCTGGTCCTCAGGG
359	1580	1599	CAGTACCCGCTGGTCCTCAG
51	1583	1602	GGTCAGTACCCGCTGGTCCT
119	1605	1624	GCAGGGCGGCCACCAGGTTG
360	1628	1647	ACCTGCCCATGGGTGCTGG
52	1640	1659	AAACAGCTGCCAACCTGCCC
361	1642	1661	CAAAACAGCTGCCAACCTGC
53	1645	1664	CTGCAAAACAGCTGCCAAC
362	1647	1666	TCCTGCAAAACAGCTGCCAA
363	1649	1668	AGTCCTGCAAAACAGCTGCC
364	1660	1679	GCTGACCATACAGTCCTGCA
365	1672	1691	GGCCCCGAGTGTGCTGACCA
54	1675	1694	GTAGGCCCCGAGTGTGCTGA
366	1677	1696	GTGTAGGCCCCGAGTGTGCT
367	1679	1698	CCGTGTAGGCCCCGAGTGTG
368	1681	1700	ATCCGTGTAGGCCCCGAGTG
369	1683	1702	CCATCCGTGTAGGCCCCGAG
370	1685	1704	GGCCATCCGTGTAGGCCCCG
371	1687	1706	GTGGCCATCCGTGTAGGCC
372	1735	1754	CTGGAGCAGCTCAGCAGCTC
460	1735	1748	CAGCTCAGCAGCTC
373	1737	1756	AACTGGAGCAGCTCAGCAGC
55	1740	1759	AGAAACTGGAGCAGCTCAGC
374	1742	1761	GGAGAAACTGGAGCAGCTCA
375	1744	1763	CTGGAGAAACTGGAGCAGCT
56	1746	1765	TCCTGGAGAAACTGGAGCAG
57	1812	1831	CGTTGTGGGCCCGGCAGACC
376	1849	1868	CACCTGGCAATGGCGTAGAC
377	1850	1869	GCACCTGGCAATGGCGTAGA
378	1851	1870	AGCACCTGGCAATGGCGTAG

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
379	1852	1871	CAGCACCTGGCAATGGCGTA
380	1853	1872	GCAGCACCTGGCAATGGCGT
381	1854	1873	GGCAGCACCTGGCAATGGCG
382	1855	1874	AGGCAGCACCTGGCAATGGC
383	1856	1875	CAGGCAGCACCTGGCAATGG
384	1857	1876	GCAGGCAGCACCTGGCAATG
58	1858	1877	AGCAGGCAGCACCTGGCAAT
385	1859	1878	TAGCAGGCAGCACCTGGCAA
386	1860	1879	GTAGCAGGCAGCACCTGGCA
387	1905	1924	TGGCCTCAGCTGGTGGAGCT
388	1915	1934	GTCCCCATGCTGGCCTCAGC
389	1916	1935	GGTCCCCATGCTGGCCTCAG
390	1917	1936	GGGTCCCCATGCTGGCCTCA
391	1918	1937	CGGGTCCCCATGCTGGCCTC
392	1919	1938	ACGGGTCCCCATGCTGGCCT
59	1920	1939	CACGGGTCCCCATGCTGGCC
59	1920	1939	CACGGGTCCCCATGCTGGCC
393	1921	1940	ACACGGGTCCCCATGCTGGC
394	1922	1941	GACACGGGTCCCCATGCTGG
395	1923	1942	GGACACGGGTCCCCATGCTG
396	1924	1943	TGGACACGGGTCCCCATGCT
397	1925	1944	GTGGACACGGGTCCCCATGC
398	1926	1945	AGTGGACACGGGTCCCCATG
399	1927	1946	CAGTGGACACGGGTCCCCAT
400	1928	1947	GCAGTGGACACGGGTCCCCA
401	1929	1948	GGCAGTGGACACGGGTCCCC
402	1930	1949	TGGCAGTGGACACGGGTCCC
403	1931	1950	GTGGCAGTGGACACGGGTCC
404	1932	1951	GGTGGCAGTGGACACGGGTC
405	1933	1952	TGGTGGCAGTGGACACGGGT
406	1936	1955	TGTTGGTGGCAGTGGACACG
407	1962	1981	AGCTGCAGCCTGTGAGGACG
408	1990	2009	GTGCAAGGTCTCCACCTC
409	2010	2029	TCAGCACAGGCGGCTTGTGG
410	2040	2059	CCACGCACTGGTTGGGCTGA
60	2100	2119	CTTTGCATTCCAGACCTGGG
411	2101	2120	ACTTTGCATTCCAGACCTGG
412	2102	2121	GACTTTGCATTCCAGACCTG
413	2103	2122	TGACTTTGCATTCCAGACCT
414	2104	2123	TTGACTTTGCATTCCAGACC
61	2105	2124	CTTGACTTTGCATTCCAGAC
415	2107	2126	TCCTTGACTTTGCATTCCAG
416	2120	2139	CGGGATTCCATGCTCCTTGA
417	2150	2169	GCAGGCCACGGTCACCTGCT
418	2187	2206	GGAGGGCACTGCAGCCAGTC
419	2305	2324	CAGATGGCAACGGCTGTCA
420	2306	2325	GCAGATGGCAACGGCTGTCA
421	2307	2326	AGCAGATGGCAACGGCTGTC

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
422	2308	2327	CAGCAGATGGCAACGGCTGT
423	2309	2328	GCAGCAGATGGCAACGGCTG
62	2310	2329	GGCAGCAGATGGCAACGGCT
424	2311	2330	CGGCAGCAGATGGCAACGGC
425	2312	2331	CCGGCAGCAGATGGCAACGG
426	2313	2332	TCCGGCAGCAGATGGCAACG
427	2314	2333	CTCCGGCAGCAGATGGCAAC
428	2315	2334	GCTCCGGCAGCAGATGGCAA
429	2325	2344	CCAGGTGCCGGCTCCGGCAG
430	2335	2354	GAGGCCTGCGCCAGGTGCCG
154	2410	2429	TTTTAAAGCTCAGCCCCAGC
63	2415	2434	AACCATTTTAAAGCTCAGCC
64	2504	2523	TCAAGGGCCAGGCCAGCAGC
65	2509	2528	CCCACTCAAGGGCCAGGCCA
122	2582	2601	GGAGGGAGCTTCCTGGCACC
66	2597	2616	ATGCCCCACAGTGAGGGAGG
67	2606	2625	AATGGTGAAATGCCCCACAG
153	2649	2668	TTGGGAGCAGCTGGCAGCAC
68	2750	2769	CATGGGAAGAATCCTGCCTC
431	2828	2847	ATGAGGGCCATCAGCACCTT
432	2829	2848	GATGAGGGCCATCAGCACCT
433	2830	2849	AGATGAGGGCCATCAGCAC
434	2831	2850	GAGATGAGGGCCATCAGCAC
69	2832	2851	GGAGATGAGGGCCATCAGCA
435	2833	2852	TGGAGATGAGGGCCATCAGC
436	2834	2853	CTGGAGATGAGGGCCATCAG
437	2835	2854	GCTGGAGATGAGGGCCATCA
438	2836	2855	AGCTGGAGATGAGGGCCATC
461	2877	2890	TTAATCAGGGAGCC
70	2900	2919	TAGATGCCATCCAGAAAGCT
439	2902	2921	GCTAGATGCCATCCAGAAAG
440	2903	2922	GGCTAGATGCCATCCAGAAA
441	2904	2923	TGGCTAGATGCCATCCAGAA
442	2905	2924	CTGGCTAGATGCCATCCAGA
71	2906	2925	TCTGGCTAGATGCCATCCAG
443	2907	2926	CTCTGGCTAGATGCCATCCA
444	2908	2927	CCTCTGGCTAGATGCCATCC
445	2909	2928	GCCTCTGGCTAGATGCCATC
446	2910	2929	AGCCTCTGGCTAGATGCCAT
72	2983	3002	GGCATAGAGCAGAGTAAAGG
73	2988	3007	AGCCTGGCATAGAGCAGAGT
135	2994	3013	TAGCACAGCCTGGCATAGAG
112	3227	3246	GAAGAGGCTTGGCTTCAGAG
74	3233	3252	AAGTAAGAAGAGGCTTGGCT
75	3437	3456	GCTCAAGGAGGGACAGTTGT
76	3472	3491	AAAGATAAATGTCTGCTTGC
77	3477	3496	ACCCAAAAGATAAATGTCTG
78	3543	3562	TCTTCAAGTTACAAAAGCAA

SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Sequence (5'-3')
99	3550	3569	ATAAATATCTTCAAGTTACA

In certain embodiments, gapmer antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gapmer antisense compounds are targeted to SEQ ID NO: 1. In certain such embodiments, the nucleotide sequences illustrated in Table 1 have a 5-10-5 gapmer motif. Table 2 illustrates gapmer antisense compounds targeted to SEQ ID NO: 1, having a 5-10-5 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10 **Table 2: Gapmer antisense compounds having a 5-10-5 motif targeted to SEQ ID NO: 1**

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
395149	5-10-5	4	135	154	0	GCGCGGAATCCTGGCTGGGA
395150	5-10-5	5	242	261	0	GAGGAGACCTAGAGGCCGTG
395151	5-10-5	6	300	319	0	AGGACCGCCTGGAGCTGACG
395152	5-10-5	7	410	429	0	ACGCAAGGCTAGCACCAGCT
399793	5-10-5	8	417	436	0	CCTCGGAACGCAAGGCTAGC
395153	5-10-5	9	480	499	0	CCTTGGCGCAGCGGTGGAAG
395154	5-10-5	10	561	580	0	GGCGGGCAGTGCGCTCTGAC
395155	5-10-5	11	600	619	0	TGGTGAGGTATCCCCGGCGG
399794	5-10-5	12	606	625	0	GGATCTTGGTGAGGTATCCC
399795	5-10-5	13	615	634	0	AGACATGCAGGATCTTGGTG
395156	5-10-5	14	620	639	0	ATGGAAGACATGCAGGATCT
395157	5-10-5	15	646	665	0	TTCACCAGGAAGCCAGGAAG
399796	5-10-5	16	651	670	0	TCATCTTCACCAGGAAGCCA
395158	5-10-5	17	705	724	0	CCTCGATGTAGTCGACATGG
395159	5-10-5	18	785	804	0	GTATTCATCCGCCCGGTACC
395160	5-10-5	19	835	854	0	CTGGTGTCTAGGAGATACAC
399797	5-10-5	20	840	859	0	GTATGCTGGTGTCTAGGAGA
395161	5-10-5	21	860	879	0	GATTTCCCGGTGGTCACTCT
399798	5-10-5	22	866	885	0	GCCCTCGATTTCGCCGTGGT
399799	5-10-5	23	880	899	0	GTGACCATGACCCTGCCCTC
395162	5-10-5	24	890	909	0	CTCGAAGTCGGTGACCATGA
395163	5-10-5	25	923	942	0	GTGGAAGCGGGTCCCGTCCT
395164	5-10-5	26	970	989	0	ACCCCTGCCAGGTGGGTGCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
399800	5-10-5	27	975	994	0	TGACCACCCCTGCCAGGTGG
395165	5-10-5	28	1004	1023	0	ACCCTTGGCCACGCCGGCAT
395166	5-10-5	29	1040	1059	0	TTGGCAGTTGAGCACGCGCA
399801	5-10-5	30	1045	1064	0	TTCCCTTGGCAGTTGAGCAC
395167	5-10-5	31	1077	1096	0	CCAGGCCTATGAGGGTGCCG
395168	5-10-5	32	1098	1117	0	GCTGGCTTTTCCGAATAAAC
395169	5-10-5	33	1210	1229	0	GTGACCAGCACGACCCCAGC
395170	5-10-5	149	1297	1316	0	TGGGCATTGGTGGCCCCAAC
395171	5-10-5	34	1326	1345	0	CCAAAGTCCCAGGGTCACC
395172	5-10-5	128	1330	1349	0	GTCCCCAAAGTCCCAGGGT
399802	5-10-5	35	1335	1354	0	AGTTGGTCCCCAAAGTCCCC
395173	5-10-5	36	1340	1359	0	GCCAAAGTTGGTCCCCAAAG
399803	5-10-5	37	1352	1371	0	GTCCACACAGCGGCCAAAGT
395174	5-10-5	38	1361	1380	0	GGCAAAGAGGTCCACACAGC
395175	5-10-5	39	1389	1408	0	TGGAGGCACCAATGATGTCC
399804	5-10-5	40	1400	1419	0	GCTGCAGTCGCTGGAGGCAC
399805	5-10-5	41	1411	1430	0	ACAAAGCAGGTGCTGCAGTC
395176	5-10-5	101	1465	1484	0	ATGGCTGCAATGCCAGCCAC
399806	5-10-5	42	1470	1489	0	GCATCATGGCTGCAATGCCA
399807	5-10-5	43	1478	1497	0	GGCAGACAGCATCATGGCTG
399808	5-10-5	44	1526	1545	0	GAAGTGGATCAGTCTCTGCC
395177	5-10-5	45	1534	1553	0	TTGGCAGAGAAGTGGATCAG
399809	5-10-5	46	1539	1558	0	CATCTTTGGCAGAGAAGTGG
399810	5-10-5	47	1545	1564	0	TGATGACATCTTTGGCAGAG
399811	5-10-5	48	1552	1571	0	GCCTCATTGATGACATCTTT
399812	5-10-5	49	1564	1583	0	TCAGGGAACCAGGCCTCATT
395178	5-10-5	50	1569	1588	0	GGTCCTCAGGGAACCAGGCC
395179	5-10-5	87	1576	1595	0	ACCCGCTGGTCCTCAGGGAA
399813	5-10-5	51	1583	1602	0	GGTCAGTACCCGCTGGTCCT
395180	5-10-5	119	1605	1624	0	GCAGGGCGGCCACCAGGTTG
395181	5-10-5	52	1640	1659	0	AAACAGCTGCCAACCTGCCC
399814	5-10-5	53	1645	1664	0	CTGCAAAACAGCTGCCAAC
395182	5-10-5	54	1675	1694	0	GTAGGCCCCGAGTGTGCTGA
399815	5-10-5	55	1740	1759	0	AGAAACTGGAGCAGCTCAGC
399816	5-10-5	56	1746	1765	0	TCCTGGAGAACTGGAGCAG
395183	5-10-5	57	1812	1831	0	CGTTGTGGGCCCGGCAGACC
395184	5-10-5	58	1858	1877	0	AGCAGGCAGCACCTGGCAAT
395185	5-10-5	59	1920	1939	0	CACGGGTCCCCATGCTGGCC
395186	5-10-5	60	2100	2119	0	CTTTGCATTCCAGACCTGGG
399817	5-10-5	61	2105	2124	0	CTTGACTTTGCATTCCAGAC
395187	5-10-5	62	2310	2329	0	GGCAGCAGATGGCAACGGCT
395188	5-10-5	154	2410	2429	0	TTTTAAAGCTCAGCCCCAGC
399818	5-10-5	63	2415	2434	0	AACCATTTTAAAGCTCAGCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
395189	5-10-5	64	2504	2523	0	TCAAGGGCCAGGCCAGCAGC
399819	5-10-5	65	2509	2528	0	CCCACTCAAGGGCCAGGCCA
399820	5-10-5	122	2582	2601	0	GGAGGGAGCTTCCTGGCACC
395190	5-10-5	66	2597	2616	0	ATGCCCCACAGTGAGGGAGG
395191	5-10-5	67	2606	2625	0	AATGGTGAAATGCCCCACAG
395192	5-10-5	153	2649	2668	0	TTGGGAGCAGCTGGCAGCAC
395193	5-10-5	68	2750	2769	0	CATGGGAAGAATCCTGCCTC
395194	5-10-5	69	2832	2851	0	GGAGATGAGGGCCATCAGCA
395195	5-10-5	70	2900	2919	0	TAGATGCCATCCAGAAAGCT
399821	5-10-5	71	2906	2925	0	TCTGGCTAGATGCCATCCAG
395196	5-10-5	72	2983	3002	0	GGCATAGAGCAGAGTAAAGG
399822	5-10-5	73	2988	3007	0	AGCCTGGCATAGAGCAGAGT
399823	5-10-5	135	2994	3013	0	TAGCACAGCCTGGCATAGAG
395197	5-10-5	112	3227	3246	0	GAAGAGGCTTGGCTTCAGAG
399824	5-10-5	74	3233	3252	0	AAGTAAGAAGAGGCTTGGCT
395198	5-10-5	75	3437	3456	0	GCTCAAGGAGGGACAGTTGT
395199	5-10-5	76	3472	3491	0	AAAGATAAATGTCTGCTTGC
399825	5-10-5	77	3477	3496	0	ACCCAAAAGATAAATGTCTG
395200	5-10-5	78	3543	3562	0	TCTTCAAGTTACAAAAGCAA
399826	5-10-5	99	3550	3569	0	ATAAATATCTTCAAGTTACA
405861	5-10-5	162	406	425	0	AAGGCTAGCACCAGCTCCTC
405862	5-10-5	163	407	426	0	CAAGGCTAGCACCAGCTCCT
405863	5-10-5	164	408	427	0	GCAAGGCTAGCACCAGCTCC
405864	5-10-5	165	409	428	0	CGCAAGGCTAGCACCAGCTC
405865	5-10-5	166	411	430	0	AACGCAAGGCTAGCACCAGC
405866	5-10-5	167	412	431	0	GAACGCAAGGCTAGCACCAG
405867	5-10-5	168	413	432	0	GGAACGCAAGGCTAGCACC
405868	5-10-5	169	414	433	0	CGGAACGCAAGGCTAGCACC
405869	5-10-5	218	862	881	0	TCGATTTCCCGGTGGTCACT
405870	5-10-5	219	863	882	0	CTCGATTTCCCGGTGGTCAC
405871	5-10-5	220	864	883	0	CCTCGATTTCCCGGTGGTCA
405872	5-10-5	221	865	884	0	CCCTCGATTTCCCGGTGGTC
405873	5-10-5	222	867	886	0	TGCCCTCGATTTCCCGGTGG
405874	5-10-5	223	868	887	0	CTGCCCTCGATTTCCCGGTG
405875	5-10-5	224	869	888	0	CCTGCCCTCGATTTCCCGGT
405876	5-10-5	225	870	889	0	CCCTGCCCTCGATTTCCCGG
405877	5-10-5	246	1000	1019	0	TTGGCCACGCCGGCATCCCG
405878	5-10-5	247	1001	1020	0	CTTGGCCACGCCGGCATCCC
405879	5-10-5	248	1002	1021	0	CCTTGGCCACGCCGGCATCC
405880	5-10-5	249	1003	1022	0	CCCTTGGCCACGCCGGCATC
405881	5-10-5	250	1005	1024	0	CACCCTTGGCCACGCCGGCA
405882	5-10-5	251	1006	1025	0	GCACCCTTGGCCACGCCGGC
405883	5-10-5	252	1007	1026	0	GGCACCCTTGGCCACGCCGG
405884	5-10-5	253	1008	1027	0	TGGCACCCTTGGCCACGCCG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
405885	5-10-5	346	1560	1579	0	GGAACCAGGCCTCATTGATG
405886	5-10-5	347	1561	1580	0	GGGAACCAGGCCTCATTGAT
405887	5-10-5	348	1562	1581	0	AGGGAACCAGGCCTCATTGA
405888	5-10-5	349	1563	1582	0	CAGGGAACCAGGCCTCATTG
405889	5-10-5	350	1565	1584	0	CTCAGGGAACCAGGCCTCAT
405890	5-10-5	351	1566	1585	0	CCTCAGGGAACCAGGCCTCA
405891	5-10-5	352	1567	1586	0	TCCTCAGGGAACCAGGCCTC
405892	5-10-5	353	1568	1587	0	GTCCTCAGGGAACCAGGCCT
405893	5-10-5	431	2828	2847	0	ATGAGGGCCATCAGCACCTT
405894	5-10-5	432	2829	2848	0	GATGAGGGCCATCAGCACCT
405895	5-10-5	433	2830	2849	0	AGATGAGGGCCATCAGCAC
405896	5-10-5	434	2831	2850	0	GAGATGAGGGCCATCAGCAC
405897	5-10-5	435	2833	2852	0	TGGAGATGAGGGCCATCAGC
405898	5-10-5	436	2834	2853	0	CTGGAGATGAGGGCCATCAG
405899	5-10-5	437	2835	2854	0	GCTGGAGATGAGGGCCATCA
405900	5-10-5	438	2836	2855	0	AGCTGGAGATGAGGGCCATC
405901	5-10-5	439	2902	2921	0	GCTAGATGCCATCCAGAAAG
405902	5-10-5	440	2903	2922	0	GGCTAGATGCCATCCAGAAA
405903	5-10-5	441	2904	2923	0	TGGCTAGATGCCATCCAGAA
405904	5-10-5	442	2905	2924	0	CTGGCTAGATGCCATCCAGA
405905	5-10-5	443	2907	2926	0	CTCTGGCTAGATGCCATCCA
405906	5-10-5	444	2908	2927	0	CCTCTGGCTAGATGCCATCC
405907	5-10-5	445	2909	2928	0	GCCTCTGGCTAGATGCCATC
405908	5-10-5	446	2910	2929	0	AGCCTCTGGCTAGATGCCAT
405909	5-10-5	267	1100	1119	0	CAGCTGGCTTTTCCGAATAA
405910	5-10-5	268	1102	1121	0	ACCAGCTGGCTTTTCCGAAT
405911	5-10-5	269	1104	1123	0	GGACCAGCTGGCTTTTCCGA
405912	5-10-5	270	1108	1127	0	GGCTGGACCAGCTGGCTTTT
405913	5-10-5	275	1212	1231	0	CGGTGACCAGCACGACCCCA
405914	5-10-5	276	1214	1233	0	AGCGGTGACCAGCACGACCC
405915	5-10-5	277	1216	1235	0	GCAGCGGTGACCAGCACGAC
405916	5-10-5	278	1218	1237	0	CGGCAGCGGTGACCAGCACG
405917	5-10-5	280	1222	1241	0	TTGCCGGCAGCGGTGACCAG
405918	5-10-5	281	1224	1243	0	AGTTGCCGGCAGCGGTGACC
405919	5-10-5	282	1226	1245	0	GAAGTTGCCGGCAGCGGTGA
405920	5-10-5	283	1228	1247	0	CGGAAGTTGCCGGCAGCGGT
405921	5-10-5	284	1230	1249	0	CCCGGAAGTTGCCGGCAGCG
405922	5-10-5	285	1232	1251	0	GTCCCGGAAGTTGCCGGCAG
405923	5-10-5	288	1295	1314	0	GGCATTGGTGGCCCAACTG
405924	5-10-5	290	1318	1337	0	CCCAGGGTCACCGGCTGGTC
405925	5-10-5	292	1322	1341	0	AGTCCCAGGGTCACCGGCT
405926	5-10-5	293	1324	1343	0	AAAGTCCCAGGGTCACCGG
405927	5-10-5	294	1328	1347	0	CCCCAAAGTCCCAGGGTCA
405928	5-10-5	295	1333	1352	0	TTGGTCCCCAAAGTCCCAG
405929	5-10-5	296	1337	1356	0	AAAGTTGGTCCCCAAAGTCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
405930	5-10-5	297	1342	1361	0	CGGCCAAAGTTGGTCCCAA
405931	5-10-5	298	1344	1363	0	AGCGGCCAAAGTTGGTCCC
405932	5-10-5	299	1346	1365	0	ACAGCGGCCAAAGTTGGTCC
405933	5-10-5	300	1348	1367	0	ACACAGCGGCCAAAGTTGGT
405934	5-10-5	301	1350	1369	0	CCACACAGCGGCCAAAGTTG
405935	5-10-5	302	1354	1373	0	AGGTCCACACAGCGGCCAAA
405936	5-10-5	304	1358	1377	0	AAAGAGGTCCACACAGCGGC
405937	5-10-5	306	1387	1406	0	GAGGCACCAATGATGTCCTC
405938	5-10-5	307	1391	1410	0	GCTGGAGGCACCAATGATGT
405939	5-10-5	308	1393	1412	0	TCGCTGGAGGCACCAATGAT
405940	5-10-5	309	1395	1414	0	AGTCGCTGGAGGCACCAATG
405941	5-10-5	310	1397	1416	0	GCAGTCGCTGGAGGCACCAA
405942	5-10-5	311	1402	1421	0	GTGCTGCAGTCGCTGGAGGC
405943	5-10-5	312	1404	1423	0	AGGTGCTGCAGTCGCTGGAG
405944	5-10-5	314	1407	1426	0	AGCAGGTGCTGCAGTCGCTG
405945	5-10-5	315	1409	1428	0	AAAGCAGGTGCTGCAGTCGC
405946	5-10-5	316	1413	1432	0	ACACAAAGCAGGTGCTGCAG
405947	5-10-5	317	1415	1434	0	TGACACAAAGCAGGTGCTGC
405948	5-10-5	319	1467	1486	0	TCATGGCTGCAATGCCAGCC
405949	5-10-5	320	1472	1491	0	CAGCATCATGGCTGCAATGC
405950	5-10-5	321	1474	1493	0	GACAGCATCATGGCTGCAAT
405951	5-10-5	322	1476	1495	0	CAGACAGCATCATGGCTGCA
405952	5-10-5	323	1480	1499	0	TCGGCAGACAGCATCATGGC
405953	5-10-5	325	1484	1503	0	CGGCTCGGCAGACAGCATCA
405954	5-10-5	326	1486	1505	0	TCCGGCTCGGCAGACAGCAT
405955	5-10-5	328	1513	1532	0	CTCTGCCTCAACTCGGCCAG
405956	5-10-5	329	1515	1534	0	GTCTCTGCCTCAACTCGGCC
405957	5-10-5	330	1517	1536	0	CAGTCTCTGCCTCAACTCGG
405958	5-10-5	331	1519	1538	0	ATCAGTCTCTGCCTCAACTC
405959	5-10-5	332	1521	1540	0	GGATCAGTCTCTGCCTCAAC
405960	5-10-5	333	1523	1542	0	GTGGATCAGTCTCTGCCTCA
405961	5-10-5	334	1525	1544	0	AAGTGGATCAGTCTCTGCCT
405962	5-10-5	335	1528	1547	0	GAGAAGTGGATCAGTCTCTG
405963	5-10-5	337	1532	1551	0	GGCAGAGAAGTGGATCAGTC
405964	5-10-5	338	1536	1555	0	CTTTGGCAGAGAAGTGGATC
405965	5-10-5	339	1541	1560	0	GACATCTTTGGCAGAGAAGT
405966	5-10-5	340	1543	1562	0	ATGACATCTTTGGCAGAGAA
405967	5-10-5	341	1547	1566	0	ATTGATGACATCTTTGGCAG
405968	5-10-5	342	1549	1568	0	TCATTGATGACATCTTTGGC
405969	5-10-5	343	1554	1573	0	AGGCCTCATTGATGACATCT
405970	5-10-5	344	1556	1575	0	CCAGGCCTCATTGATGACAT
405971	5-10-5	355	1571	1590	0	CTGGTCCTCAGGGAACCAGG
405972	5-10-5	357	1573	1592	0	CGCTGGTCCTCAGGGAACCA
405973	5-10-5	358	1578	1597	0	GTACCCGCTGGTCCTCAGGG
405974	5-10-5	359	1580	1599	0	CAGTACCCGCTGGTCCTCAG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
405975	5-10-5	361	1642	1661	0	CAAAACAGCTGCCAACCTGC
405976	5-10-5	362	1647	1666	0	TCCTGCAAAACAGCTGCCAA
405977	5-10-5	363	1649	1668	0	AGTCCTGCAAAACAGCTGCC
405978	5-10-5	365	1672	1691	0	GGCCCCGAGTGTGCTGACCA
405979	5-10-5	366	1677	1696	0	GTGTAGGCCCCGAGTGTGCT
405980	5-10-5	367	1679	1698	0	CCGTGTAGGCCCCGAGTGTG
405981	5-10-5	368	1681	1700	0	ATCCGTGTAGGCCCCGAGTG
405982	5-10-5	370	1685	1704	0	GGCCATCCGTGTAGGCCCCG
405983	5-10-5	371	1687	1706	0	GTGGCCATCCGTGTAGGCC
405984	5-10-5	372	1735	1754	0	CTGGAGCAGCTCAGCAGCTC
405985	5-10-5	373	1737	1756	0	AACTGGAGCAGCTCAGCAGC
405986	5-10-5	374	1742	1761	0	GGAGAACTGGAGCAGCTCA
405987	5-10-5	375	1744	1763	0	CTGGAGAACTGGAGCAGCT
405988	5-10-5	381	1854	1873	0	GGCAGCACCTGGCAATGGCG
405989	5-10-5	383	1856	1875	0	CAGGCAGCACCTGGCAATGG
405990	5-10-5	386	1860	1879	0	GTAGCAGGCAGCACCTGGCA
405991	5-10-5	394	1922	1941	0	GACACGGGTCCCCATGCTGG
405992	5-10-5	396	1924	1943	0	TGGACACGGGTCCCCATGCT
405993	5-10-5	398	1926	1945	0	AGTGGACACGGGTCCCCATG
405994	5-10-5	400	1928	1947	0	GCAGTGGACACGGGTCCCCA
405995	5-10-5	402	1930	1949	0	TGGCAGTGGACACGGGTCCC
405996	5-10-5	412	2102	2121	0	GACTTTGCATTCCAGACCTG
405997	5-10-5	415	2107	2126	0	TCCTTGACTTTGCATTCCAG
405998	5-10-5	426	2313	2332	0	TCCGGCAGCAGATGGCAACG
405999	5-10-5	160	298	317	0	GACCGCCTGGAGCTGACGGT
406000	5-10-5	173	482	501	0	ATCCTTGGCGCAGCGGTGGA
406001	5-10-5	174	484	503	0	GGATCCTTGGCGCAGCGGTG
406002	5-10-5	175	488	507	0	CCACGGATCCTTGGCGCAGC
406003	5-10-5	178	555	574	0	CAGTGCCTCTGACTGCGAG
406004	5-10-5	179	557	576	0	GGCAGTGCCTCTGACTGCG
406005	5-10-5	180	559	578	0	CGGGCAGTGCCTCTGACTG
406006	5-10-5	181	562	581	0	CGGCGGGCAGTGCCTCTGA
406007	5-10-5	183	595	614	0	AGGTATCCCCGGCGGGCAGC
406008	5-10-5	188	602	621	0	CTTGGTGAGGTATCCCCGGC
406009	5-10-5	190	604	623	0	ATCTTGGTGAGGTATCCCCG
406010	5-10-5	193	609	628	0	GCAGGATCTTGGTGAGGTAT
406011	5-10-5	194	611	630	0	ATGCAGGATCTTGGTGAGGT
406012	5-10-5	195	613	632	0	ACATGCAGGATCTTGGTGAG
406013	5-10-5	196	617	636	0	GAAGACATGCAGGATCTTGG
406014	5-10-5	199	648	667	0	TCTTACCAGGAAGCCAGGA
406015	5-10-5	200	653	672	0	ACTCATCTTACCAGGAAGC
406016	5-10-5	201	655	674	0	CCACTCATCTTACCAGGAA
406017	5-10-5	203	659	678	0	GTCGCCACTCATCTTACCA
406018	5-10-5	204	661	680	0	AGGTCGCCACTCATCTTAC
406019	5-10-5	205	663	682	0	GCAGGTCGCCACTCATCTT

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
406020	5-10-5	206	665	684	0	CAGCAGGTCGCCACTCATCT
406021	5-10-5	210	782	801	0	TTCATCCGCCCGGTACCGTG
406022	5-10-5	211	784	803	0	TATTCATCCGCCCGGTACCG
406023	5-10-5	212	787	806	0	TGGTATTCATCCGCCCGGTA
406024	5-10-5	213	789	808	0	GCTGGTATTCATCCGCCCGG
406025	5-10-5	216	832	851	0	GTGTCTAGGAGATACACCTC
406026	5-10-5	217	837	856	0	TGCTGGTGTCTAGGAGATAC
406027	5-10-5	226	874	893	0	ATGACCCTGCCCTCGATTTC
406028	5-10-5	227	876	895	0	CCATGACCCTGCCCTCGATT
406029	5-10-5	228	878	897	0	GACCATGACCCTGCCCTCGA
406030	5-10-5	229	882	901	0	CGGTGACCATGACCCTGCC
406031	5-10-5	230	884	903	0	GTCGGTGACCATGACCCTGC
406032	5-10-5	232	888	907	0	CGAAGTCGGTGACCATGACC
406033	5-10-5	237	967	986	0	CCTGCCAGGTGGGTGCCATG
406034	5-10-5	238	972	991	0	CCACCCTGCCAGGTGGGTG
406035	5-10-5	239	977	996	0	GCTGACCACCCTGCCAGGT
406036	5-10-5	241	989	1008	0	GGCATCCCGGCCGCTGACCA
406037	5-10-5	242	992	1011	0	GCCGGCATCCCGGCCGCTGA
406038	5-10-5	245	999	1018	0	TGGCCACGCCGGCATCCCGG
406039	5-10-5	257	1036	1055	0	CAGTTGAGCACGCGCAGGCT
406040	5-10-5	258	1038	1057	0	GGCAGTTGAGCACGCGCAGG
406041	5-10-5	259	1042	1061	0	CCTTGGCAGTTGAGCACGCG
406042	5-10-5	260	1047	1066	0	CCTTCCCTTGGCAGTTGAGC
406043	5-10-5	261	1051	1070	0	GTGCCCTTCCCTTGGCAGTT
406044	5-10-5	262	1053	1072	0	CCGTGCCCTTCCCTTGGCAG
406045	5-10-5	266	1096	1115	0	TGGCTTTTCCGAATAAACTC
408642	5-10-5	264	1076	1095	0	CAGGCCTATGAGGGTGCCGC
408653	5-10-5	354	1570	1589	0	TGGTCCTCAGGGAACCAGGC
409126	5-10-5	447	1004	1023	1	ACCCTTGGTCACGCCGGCAT
410529	5-10-5	184	597	616	0	TGAGGTATCCCCGGCGGGCA
410530	5-10-5	185	598	617	0	GTGAGGTATCCCCGGCGGGC
410531	5-10-5	186	599	618	0	GGTGAGGTATCCCCGGCGGG
410532	5-10-5	187	601	620	0	TTGGTGAGGTATCCCCGGCG
410533	5-10-5	189	603	622	0	TCTTGGTGAGGTATCCCCGG
410534	5-10-5	191	605	624	0	GATCTTGGTGAGGTATCCCC
410535	5-10-5	192	607	626	0	AGGATCTTGGTGAGGTATCC
410536	5-10-5	243	997	1016	0	GCCACGCCGGCATCCCGGCC
410537	5-10-5	244	998	1017	0	GGCCACGCCGGCATCCCGGC
410538	5-10-5	254	1009	1028	0	CTGGCACCTTGGCCACGCC
410539	5-10-5	255	1010	1029	0	GCTGGCACCTTGGCCACGC
410540	5-10-5	356	1572	1591	0	GCTGGTCCTCAGGGAACCAG
410541	5-10-5	376	1849	1868	0	CACCTGGCAATGGCGTAGAC
410542	5-10-5	377	1850	1869	0	GCACCTGGCAATGGCGTAGA
410543	5-10-5	378	1851	1870	0	AGCACCTGGCAATGGCGTAG
410544	5-10-5	379	1852	1871	0	CAGCACCTGGCAATGGCGTA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
410545	5-10-5	380	1853	1872	0	GCAGCACCTGGCAATGGCGT
410546	5-10-5	382	1855	1874	0	AGGCAGCACCTGGCAATGGC
410547	5-10-5	384	1857	1876	0	GCAGGCAGCACCTGGCAATG
410548	5-10-5	385	1859	1878	0	TAGCAGGCAGCACCTGGCAA
410549	5-10-5	388	1915	1934	0	GTCCCCATGCTGGCCTCAGC
410550	5-10-5	389	1916	1935	0	GGTCCCCATGCTGGCCTCAG
410551	5-10-5	390	1917	1936	0	GGGTCCCCATGCTGGCCTCA
410552	5-10-5	391	1918	1937	0	CGGGTCCCCATGCTGGCCTC
410553	5-10-5	392	1919	1938	0	ACGGGTCCCCATGCTGGCCT
410554	5-10-5	393	1921	1940	0	ACACGGGTCCCCATGCTGGC
410555	5-10-5	395	1923	1942	0	GGACACGGGTCCCCATGCTG
410556	5-10-5	397	1925	1944	0	GTGGACACGGGTCCCCATGC
410557	5-10-5	399	1927	1946	0	CAGTGGACACGGGTCCCCAT
410558	5-10-5	401	1929	1948	0	GGCAGTGGACACGGGTCCCC
410559	5-10-5	403	1931	1950	0	GTGGCAGTGGACACGGGTCC
410560	5-10-5	404	1932	1951	0	GGTGGCAGTGGACACGGGTC
410561	5-10-5	405	1933	1952	0	TGGTGGCAGTGGACACGGGT
410562	5-10-5	411	2101	2120	0	ACTTTGCATTCCAGACCTGG
410563	5-10-5	413	2103	2122	0	TGACTTTGCATTCCAGACCT
410564	5-10-5	414	2104	2123	0	TTGACTTTGCATTCCAGACC
410565	5-10-5	419	2305	2324	0	CAGATGGCAACGGCTGTCA
410566	5-10-5	420	2306	2325	0	GCAGATGGCAACGGCTGTCA
410567	5-10-5	421	2307	2326	0	AGCAGATGGCAACGGCTGTC
410568	5-10-5	422	2308	2327	0	CAGCAGATGGCAACGGCTGT
410569	5-10-5	423	2309	2328	0	GCAGCAGATGGCAACGGCTG
410570	5-10-5	424	2311	2330	0	CGGCAGCAGATGGCAACGGC
410571	5-10-5	425	2312	2331	0	CCGGCAGCAGATGGCAACGG
410572	5-10-5	427	2314	2333	0	CTCCGGCAGCAGATGGCAAC
410573	5-10-5	428	2315	2334	0	GCTCCGGCAGCAGATGGCAA
410730	5-10-5	202	657	676	0	CGCCACTCATCTTACCAGG
410731	5-10-5	207	667	686	0	TCCAGCAGGTGCGCCACTCAT
410732	5-10-5	214	791	810	0	GGGCTGGTATTCATCCGCC
410733	5-10-5	231	886	905	0	AAGTCGGTGACCATGACCCT
410734	5-10-5	279	1219	1238	0	CCGGCAGCGGTGACCAGCAC
410735	5-10-5	291	1320	1339	0	TCCCCAGGGTCACCGGCTGG
410736	5-10-5	303	1356	1375	0	AGAGGTCCACACAGCGGCCA
410737	5-10-5	313	1406	1425	0	GCAGGTGCTGCAGTCGCTGG
410738	5-10-5	324	1482	1501	0	GCTCGGCAGACAGCATCATG
410739	5-10-5	336	1530	1549	0	CAGAGAAGTGGATCAGTCTC
410740	5-10-5	345	1558	1577	0	AACCAGGCCTCATTGATGAC
410741	5-10-5	369	1683	1702	0	CCATCCGTGTAGGCCCCGAG
410742	5-10-5	159	294	313	0	GCCTGGAGCTGACGGTGCCC
410743	5-10-5	170	421	440	0	TCCTCCTCGGAACGCAAGGC
410744	5-10-5	171	446	465	0	GTGCTCGGGTGCTTCGGCCA
410745	5-10-5	172	466	485	0	TGGAAGGTGGCTGTGGTTCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 1	3' Target Site on SEQ ID NO: 1	Mismatches	Sequence (5'-3')
410746	5-10-5	176	507	526	0	CGTAGGTGCCAGGCAACCTC
410747	5-10-5	177	545	564	0	TGACTGCGAGAGGTGGGTCT
410748	5-10-5	182	591	610	0	ATCCCCGGCGGGCAGCCTGG
410749	5-10-5	197	628	647	0	AGAAGGCCATGGAAGACATG
410750	5-10-5	198	638	657	0	GAAGCCAGGAAGAAGGCCAT
410751	5-10-5	208	685	704	0	GGCAACTTCAAGGCCAGCTC
410752	5-10-5	209	724	743	0	GCAAAGACAGAGGAGTCCTC
410753	5-10-5	215	821	840	0	ATACACCTCCACCAGGCTGC
410754	5-10-5	233	898	917	0	GGCACATTCTCGAAGTCGGT
410755	5-10-5	234	933	952	0	TGGCCTGTCTGTGGAAGCGG
410756	5-10-5	235	960	979	0	GGTGGGTGCCATGACTGTCA
410757	5-10-5	240	985	1004	0	TCCCGGCCGCTGACCACCCC
410758	5-10-5	256	1015	1034	0	CGCATGCTGGCACCCTTGGC
410759	5-10-5	263	1064	1083	0	GGTGCCGCTAACCGTGCCCT
410760	5-10-5	265	1088	1107	0	CCGAATAAACTCCAGGCCTA
410761	5-10-5	271	1119	1138	0	GTGGCCCCACAGGCTGGACC
410762	5-10-5	272	1132	1151	0	AGCAGCACCACCAGTGGCCC
410763	5-10-5	273	1154	1173	0	GCTGTACCCACCCGCCAGGG
410764	5-10-5	274	1200	1219	0	CGACCCCAGCCCTCGCCAGG
410765	5-10-5	286	1273	1292	0	ATGACCTCGGGAGCTGAGGC
410766	5-10-5	287	1283	1302	0	CCCAACTGTGATGACCTCGG
410767	5-10-5	289	1305	1324	0	GCTGGTCTTGGGCATTGGTG
410768	5-10-5	305	1380	1399	0	CAATGATGTCCTCCCCTGGG
410769	5-10-5	318	1425	1444	0	TCCCACTCTGTGACACAAAG
410770	5-10-5	327	1500	1519	0	CGGCCAGGGTGAGCTCCGGC
410771	5-10-5	360	1628	1647	0	ACCTGCCCCATGGGTGCTGG
410772	5-10-5	364	1660	1679	0	GCTGACCATACAGTCCTGCA
410773	5-10-5	387	1905	1924	0	TGGCCTCAGCTGGTGGAGCT
410774	5-10-5	406	1936	1955	0	TGTTGGTGGCAGTGGACACG
410775	5-10-5	407	1962	1981	0	AGCTGCAGCCTGTGAGGACG
410776	5-10-5	408	1990	2009	0	GTGCCAAGGTCCCTCCACCTC
410777	5-10-5	409	2010	2029	0	TCAGCACAGGCGGCTTGTGG
410778	5-10-5	410	2040	2059	0	CCACGCACTGGTTGGGCTGA
410779	5-10-5	416	2120	2139	0	CGGGATTCCATGCTCCTTGA
410780	5-10-5	417	2150	2169	0	GCAGGCCACGGTCACCTGCT
410781	5-10-5	418	2187	2206	0	GGAGGGCACTGCAGCCAGTC
410782	5-10-5	429	2325	2344	0	CCAGGTGCCGGCTCCGGCAG
410783	5-10-5	430	2335	2354	0	GAGGCCTGCGCCAGGTGCCG

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 1. In certain such embodiments, the nucleotide sequences illustrated in Table 1 have a 3-14-3 gap-widened motif. Table 3 illustrates gap-widened antisense compounds targeted to

SEQ ID NO: 1, having a 3-14-3 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

Table 3: Gapmer antisense compounds having a 3-14-3 motif targeted to SEQ ID NO: 1

5

Isis No	Motif	SEQ ID NO	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Mismatches	Sequence (5'-3')
399871	3-14-3	4	135	154	0	GCGCGGAATCCTGGCTGGGA
399872	3-14-3	5	242	261	0	GAGGAGACCTAGAGGCCGTG
399873	3-14-3	6	300	319	0	AGGACCGCCTGGAGCTGACG
399874	3-14-3	7	410	429	0	ACGCAAGGCTAGCACCAGCT
399949	3-14-3	8	417	436	0	CCTCGGAACGCAAGGCTAGC
399875	3-14-3	9	480	499	0	CCTTGGCGCAGCGGTGGAAG
399876	3-14-3	10	561	580	0	GGCGGGCAGTGCGCTCTGAC
399877	3-14-3	11	600	619	0	TGGTGAGGTATCCCCGGCGG
399950	3-14-3	12	606	625	0	GGATCTTGGTGAGGTATCCC
399951	3-14-3	13	615	634	0	AGACATGCAGGATCTTGGTG
399878	3-14-3	14	620	639	0	ATGGAAGACATGCAGGATCT
399879	3-14-3	15	646	665	0	TTCACCAGGAAGCCAGGAAG
399952	3-14-3	16	651	670	0	TCATCTTCACCAGGAAGCCA
399880	3-14-3	17	705	724	0	CCTCGATGTAGTCGACATGG
399881	3-14-3	18	785	804	0	GTATTCATCCGCCCGGTACC
399882	3-14-3	19	835	854	0	CTGGTGTCTAGGAGATACAC
399953	3-14-3	20	840	859	0	GTATGCTGGTGTCTAGGAGA
399883	3-14-3	21	860	879	0	GATTTCCCGGTGGTCACTCT
399954	3-14-3	22	866	885	0	GCCCTCGATTTCGCCGTGGT
399955	3-14-3	23	880	899	0	GTGACCATGACCCTGCCCTC
399884	3-14-3	24	890	909	0	CTCGAAGTCGGTGACCATGA
399885	3-14-3	25	923	942	0	GTGGAAGCGGGTCCCGTCCT
399886	3-14-3	26	970	989	0	ACCCCTGCCAGGTGGGTGCC
399956	3-14-3	27	975	994	0	TGACCACCCCTGCCAGGTGG
399887	3-14-3	28	1004	1023	0	ACCCTTGGCCACGCCGGCAT
399888	3-14-3	29	1040	1059	0	TTGGCAGTTGAGCACGCGCA
399957	3-14-3	30	1045	1064	0	TTCCCTTGGCAGTTGAGCAC
399889	3-14-3	31	1077	1096	0	CCAGGCCTATGAGGGTGCCG
399890	3-14-3	32	1098	1117	0	GCTGGCTTTTCCGAATAAAC
399891	3-14-3	33	1210	1229	0	GTGACCAGCACGACCCAGC
399892	3-14-3	149	1297	1316	0	TGGGCATTGGTGGCCCCAAC
399893	3-14-3	34	1326	1345	0	CCAAAGTCCCCAGGGTCACC
399894	3-14-3	128	1330	1349	0	GTCCCCAAAGTCCCCAGGGT
399958	3-14-3	35	1335	1354	0	AGTTGGTCCCCAAAGTCCCC
399895	3-14-3	36	1340	1359	0	GCCAAAGTTGGTCCCCAAAG
399959	3-14-3	37	1352	1371	0	GTCCACACAGCGGCCAAAGT
399896	3-14-3	38	1361	1380	0	GGCAAAGAGGTCCACACAGC
399897	3-14-3	39	1389	1408	0	TGGAGGCACCAATGATGTCC
399960	3-14-3	40	1400	1419	0	GCTGCAGTCGCTGGAGGCAC
399961	3-14-3	41	1411	1430	0	ACAAAGCAGGTGCTGCAGTC
399898	3-14-3	101	1465	1484	0	ATGGCTGCAATGCCAGCCAC

Isis No	Motif	SEQ ID NO	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Mismatches	Sequence (5'-3')
399962	3-14-3	42	1470	1489	0	GCATCATGGCTGCAATGCCA
399963	3-14-3	43	1478	1497	0	GGCAGACAGCATCATGGCTG
399964	3-14-3	44	1526	1545	0	GAAGTGGATCAGTCTCTGCC
399899	3-14-3	45	1534	1553	0	TTGGCAGAGAAGTGGATCAG
399965	3-14-3	46	1539	1558	0	CATCTTTGGCAGAGAAGTGG
399966	3-14-3	47	1545	1564	0	TGATGACATCTTTGGCAGAG
399967	3-14-3	48	1552	1571	0	GCCTCATTGATGACATCTTT
399968	3-14-3	49	1564	1583	0	TCAGGGAACCAGGCCTCATT
399900	3-14-3	50	1569	1588	0	GGTCCTCAGGGAACCAGGCC
399901	3-14-3	87	1576	1595	0	ACCCGCTGGTCCTCAGGGAA
399969	3-14-3	51	1583	1602	0	GGTCAGTACCCGCTGGTCCT
399902	3-14-3	119	1605	1624	0	GCAGGGCGGCCACCAGGTTG
399903	3-14-3	52	1640	1659	0	AAACAGCTGCCAACCTGCCC
399970	3-14-3	53	1645	1664	0	CTGCAAAACAGCTGCCAAC
399904	3-14-3	54	1675	1694	0	GTAGGCCCCGAGTGTGCTGA
399971	3-14-3	55	1740	1759	0	AGAAACTGGAGCAGCTCAGC
399972	3-14-3	56	1746	1765	0	TCCTGGAGAACTGGAGCAG
399905	3-14-3	57	1812	1831	0	CGTTGTGGGCCCGGCAGACC
399906	3-14-3	58	1858	1877	0	AGCAGGCAGCACCTGGCAAT
399907	3-14-3	59	1920	1939	0	CACGGGTCCCCATGCTGGCC
399908	3-14-3	60	2100	2119	0	CTTTGCATTCCAGACCTGGG
399973	3-14-3	61	2105	2124	0	CTTGACTTTGCATTCCAGAC
399909	3-14-3	62	2310	2329	0	GGCAGCAGATGGCAACGGCT
399910	3-14-3	154	2410	2429	0	TTTTAAAGCTCAGCCCCAGC
399974	3-14-3	63	2415	2434	0	AACCATTTTAAAGCTCAGCC
399911	3-14-3	64	2504	2523	0	TCAAGGGCCAGGCCAGCAGC
399975	3-14-3	65	2509	2528	0	CCCACTCAAGGGCCAGGCCA
399976	3-14-3	122	2582	2601	0	GGAGGGAGCTTCCTGGCACC
399912	3-14-3	66	2597	2616	0	ATGCCCCACAGTGAGGGAGG
399913	3-14-3	67	2606	2625	0	AATGGTGAAATGCCCCACAG
399914	3-14-3	153	2649	2668	0	TTGGGAGCAGCTGGCAGCAC
399915	3-14-3	68	2750	2769	0	CATGGGAAGAATCCTGCCTC
399916	3-14-3	69	2832	2851	0	GGAGATGAGGGCCATCAGCA
399917	3-14-3	70	2900	2919	0	TAGATGCCATCCAGAAAGCT
399977	3-14-3	71	2906	2925	0	TCTGGCTAGATGCCATCCAG
399918	3-14-3	72	2983	3002	0	GGCATAGAGCAGAGTAAAGG
399978	3-14-3	73	2988	3007	0	AGCCTGGCATAGAGCAGAGT
399979	3-14-3	135	2994	3013	0	TAGCACAGCCTGGCATAGAG
399919	3-14-3	112	3227	3246	0	GAAGAGGCTTGGCTTCAGAG
399980	3-14-3	74	3233	3252	0	AAGTAAGAAGAGGCTTGGCT
399920	3-14-3	75	3437	3456	0	GCTCAAGGAGGGACAGTTGT
399921	3-14-3	76	3472	3491	0	AAAGATAAATGTCTGCTTGC
399981	3-14-3	77	3477	3496	0	ACCCAAAAGATAAATGTCTG
399922	3-14-3	78	3543	3562	0	TCTTCAAGTTACAAAAGCAA
399982	3-14-3	99	3550	3569	0	ATAAATATCTTCAAGTTACA
410574	3-14-3	184	597	616	0	TGAGGTATCCCCGGCGGGCA
410575	3-14-3	185	598	617	0	GTGAGGTATCCCCGGCGGGC
410576	3-14-3	186	599	618	0	GGTGAGGTATCCCCGGCGGG
410577	3-14-3	187	601	620	0	TTGGTGAGGTATCCCCGGCG

Isis No	Motif	SEQ ID NO	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Mismatches	Sequence (5'-3')
410578	3-14-3	188	602	621	0	CTTGGTGAGGTATCCCCGGC
410579	3-14-3	189	603	622	0	TCTTGGTGAGGTATCCCCGG
410580	3-14-3	190	604	623	0	ATCTTGGTGAGGTATCCCCG
410581	3-14-3	191	605	624	0	GATCTTGGTGAGGTATCCCC
410582	3-14-3	192	607	626	0	AGGATCTTGGTGAGGTATCC
405604	3-14-3	236	963	982	0	CCAGGTGGGTGCCATGACTG
410583	3-14-3	243	997	1016	0	GCCACGCCGGCATCCCCGGCC
410584	3-14-3	244	998	1017	0	GGCCACGCCGGCATCCCCGGC
410585	3-14-3	245	999	1018	0	TGGCCACGCCGGCATCCCCGG
410586	3-14-3	246	1000	1019	0	TTGGCCACGCCGGCATCCCCG
410587	3-14-3	247	1001	1020	0	CTTGGCCACGCCGGCATCCC
410588	3-14-3	248	1002	1021	0	CCTTGGCCACGCCGGCATCC
410589	3-14-3	249	1003	1022	0	CCCTTGGCCACGCCGGCATC
410590	3-14-3	250	1005	1024	0	CACCCTTGGCCACGCCGGCA
410591	3-14-3	251	1006	1025	0	GCACCCTTGGCCACGCCGGC
410592	3-14-3	252	1007	1026	0	GGCACCCTTGGCCACGCCGG
410593	3-14-3	253	1008	1027	0	TGGCACCCTTGGCCACGCCG
410594	3-14-3	254	1009	1028	0	CTGGCACCCTTGGCCACGCC
410595	3-14-3	255	1010	1029	0	GCTGGCACCCTTGGCCACGC
410596	3-14-3	348	1562	1581	0	AGGGAACCAGGCCTCATTGA
410597	3-14-3	349	1563	1582	0	CAGGGAACCAGGCCTCATTG
410598	3-14-3	350	1565	1584	0	CTCAGGGAACCAGGCCTCAT
410599	3-14-3	351	1566	1585	0	CCTCAGGGAACCAGGCCTCA
410600	3-14-3	352	1567	1586	0	TCCTCAGGGAACCAGGCCTC
410601	3-14-3	353	1568	1587	0	GTCCTCAGGGAACCAGGCCT
410602	3-14-3	354	1570	1589	0	TGGTCCTCAGGGAACCAGGC
410603	3-14-3	355	1571	1590	0	CTGGTCCTCAGGGAACCAGG
410604	3-14-3	356	1572	1591	0	GCTGGTCCTCAGGGAACCAG
405641	3-14-3	373	1737	1756	0	AACTGGAGCAGCTCAGCAGC
410605	3-14-3	376	1849	1868	0	CACCTGGCAATGGCGTAGAC
410606	3-14-3	377	1850	1869	0	GCACCTGGCAATGGCGTAGA
410607	3-14-3	378	1851	1870	0	AGCACCTGGCAATGGCGTAG
410608	3-14-3	379	1852	1871	0	CAGCACCTGGCAATGGCGTA
410609	3-14-3	380	1853	1872	0	GCAGCACCTGGCAATGGCGT
410610	3-14-3	381	1854	1873	0	GGCAGCACCTGGCAATGGCG
410611	3-14-3	382	1855	1874	0	AGGCAGCACCTGGCAATGGC
410612	3-14-3	383	1856	1875	0	CAGGCAGCACCTGGCAATGG
410613	3-14-3	384	1857	1876	0	GCAGGCAGCACCTGGCAATG
410614	3-14-3	385	1859	1878	0	TAGCAGGCAGCACCTGGCAA
410615	3-14-3	388	1915	1934	0	GTCCCCATGCTGGCCTCAGC
410616	3-14-3	389	1916	1935	0	GGTCCCCATGCTGGCCTCAG
410617	3-14-3	390	1917	1936	0	GGGTCCCCATGCTGGCCTCA
410618	3-14-3	391	1918	1937	0	CGGGTCCCCATGCTGGCCTC
410619	3-14-3	392	1919	1938	0	ACGGGTCCCCATGCTGGCCT
410620	3-14-3	393	1921	1940	0	ACACGGGTCCCCATGCTGGC
410621	3-14-3	394	1922	1941	0	GACACGGGTCCCCATGCTGG
410622	3-14-3	395	1923	1942	0	GGACACGGGTCCCCATGCTG
410623	3-14-3	396	1924	1943	0	TGGACACGGGTCCCCATGCT
410624	3-14-3	397	1925	1944	0	GTGGACACGGGTCCCCATGC

Isis No	Motif	SEQ ID NO	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Mismatches	Sequence (5'-3')
410625	3-14-3	398	1926	1945	0	AGTGGACACGGGTCCCCATG
410626	3-14-3	399	1927	1946	0	CAGTGGACACGGGTCCCCAT
410627	3-14-3	400	1928	1947	0	GCAGTGGACACGGGTCCCCA
410628	3-14-3	401	1929	1948	0	GGCAGTGGACACGGGTCCCC
410629	3-14-3	402	1930	1949	0	TGGCAGTGGACACGGGTCCC
410630	3-14-3	403	1931	1950	0	GTGGCAGTGGACACGGGTCC
410631	3-14-3	404	1932	1951	0	GGTGGCAGTGGACACGGGTTC
410632	3-14-3	405	1933	1952	0	TGGTGGCAGTGGACACGGGT
410633	3-14-3	411	2101	2120	0	ACTTTGCATTCCAGACCTGG
410634	3-14-3	412	2102	2121	0	GACTTTGCATTCCAGACCTG
410635	3-14-3	413	2103	2122	0	TGACTTTGCATTCCAGACCT
410636	3-14-3	414	2104	2123	0	TTGACTTTGCATTCCAGACC
410637	3-14-3	419	2305	2324	0	CAGATGGCAACGGCTGTCA
410638	3-14-3	420	2306	2325	0	GCAGATGGCAACGGCTGTCA
410639	3-14-3	421	2307	2326	0	AGCAGATGGCAACGGCTGTC
410640	3-14-3	422	2308	2327	0	CAGCAGATGGCAACGGCTGT
410641	3-14-3	423	2309	2328	0	GCAGCAGATGGCAACGGCTG
410642	3-14-3	424	2311	2330	0	CGGCAGCAGATGGCAACGGC
410643	3-14-3	425	2312	2331	0	CCGGCAGCAGATGGCAACGG
410644	3-14-3	426	2313	2332	0	TCCGGCAGCAGATGGCAACG
410645	3-14-3	427	2314	2333	0	CTCCGGCAGCAGATGGCAAC
410646	3-14-3	428	2315	2334	0	GCTCCGGCAGCAGATGGCAA

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 1. In certain such embodiments, the nucleotide sequences illustrated in Table 1 have a 2-13-5 gap-widened motif. Table 4 illustrates gap-widened antisense compounds targeted to SEQ ID NO: 1, having a 2-13-5 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10 **Table 4: Gapmer antisense compounds having a 2-13-5 motif targeted to SEQ ID NO: 1**

ISIS No.	Motif	SEQ ID NO	5' start site to SEQ ID NO: 1	3' Start Site to SEQ ID NO: 1	Mismatches	Sequences (5' to 3')
410647	2-13-5	184	597	616	0	TGAGGTATCCCCGGCGGGCA
410648	2-13-5	185	598	617	0	GTGAGGTATCCCCGGCGGGC
410649	2-13-5	186	599	618	0	GGTGAGGTATCCCCGGCGGG
410650	2-13-5	11	600	619	0	TGGTGAGGTATCCCCGGCGG
410651	2-13-5	187	601	620	0	TTGGTGAGGTATCCCCGGCG
410652	2-13-5	188	602	621	0	CTTGGTGAGGTATCCCCGGC
410653	2-13-5	189	603	622	0	TCTTGGTGAGGTATCCCCGG

ISIS No.	Motif	SEQ ID NO	5' start site to SEQ ID NO: 1	3' Start Site to SEQ ID NO: 1	Mismatches	Sequences (5' to 3')
410654	2-13-5	190	604	623	0	ATCTTGGTGAGGTATCCCCG
410655	2-13-5	191	605	624	0	GATCTTGGTGAGGTATCCCC
410656	2-13-5	12	606	625	0	GGATCTTGGTGAGGTATCCC
410657	2-13-5	192	607	626	0	AGGATCTTGGTGAGGTATCC
410658	2-13-5	243	997	1016	0	GCCACGCCGGCATCCCGGCC
410659	2-13-5	244	998	1017	0	GGCCACGCCGGCATCCCGGC
410660	2-13-5	245	999	1018	0	TGGCCACGCCGGCATCCCGG
410661	2-13-5	246	1000	1019	0	TTGGCCACGCCGGCATCCCG
410662	2-13-5	247	1001	1020	0	CTTGGCCACGCCGGCATCCC
410663	2-13-5	248	1002	1021	0	CCTTGGCCACGCCGGCATCC
410664	2-13-5	249	1003	1022	0	CCCTTGGCCACGCCGGCATC
410665	2-13-5	28	1004	1023	0	ACCCTTGGCCACGCCGGCAT
410666	2-13-5	250	1005	1024	0	CACCCTTGGCCACGCCGGCA
410667	2-13-5	251	1006	1025	0	GCACCCTTGGCCACGCCGGC
410668	2-13-5	252	1007	1026	0	GGCACCCTTGGCCACGCCGG
410669	2-13-5	253	1008	1027	0	TGGCACCCTTGGCCACGCCG
410670	2-13-5	254	1009	1028	0	CTGGCACCCCTTGGCCACGCC
410671	2-13-5	255	1010	1029	0	GCTGGCACCCCTTGGCCACGC
410672	2-13-5	348	1562	1581	0	AGGGAACCAGGCCTCATTGA
410673	2-13-5	349	1563	1582	0	CAGGGAACCAGGCCTCATTG
410674	2-13-5	49	1564	1583	0	TCAGGGAACCAGGCCTCATT
410675	2-13-5	350	1565	1584	0	CTCAGGGAACCAGGCCTCAT
410676	2-13-5	351	1566	1585	0	CCTCAGGGAACCAGGCCTCA
410677	2-13-5	352	1567	1586	0	TCCTCAGGGAACCAGGCCTC
410678	2-13-5	353	1568	1587	0	GTCCTCAGGGAACCAGGCCT
410679	2-13-5	50	1569	1588	0	GGTCCTCAGGGAACCAGGCC
410680	2-13-5	354	1570	1589	0	TGGTCCTCAGGGAACCAGGC
410681	2-13-5	355	1571	1590	0	CTGGTCCTCAGGGAACCAGG
410682	2-13-5	356	1572	1591	0	GCTGGTCCTCAGGGAACCAG
410683	2-13-5	376	1849	1868	0	CACCTGGCAATGGCGTAGAC
410684	2-13-5	377	1850	1869	0	GCACCTGGCAATGGCGTAGA
410685	2-13-5	378	1851	1870	0	AGCACCTGGCAATGGCGTAG
410686	2-13-5	379	1852	1871	0	CAGCACCTGGCAATGGCGTA
410687	2-13-5	380	1853	1872	0	GCAGCACCTGGCAATGGCGT
410688	2-13-5	381	1854	1873	0	GGCAGCACCTGGCAATGGCG
410689	2-13-5	382	1855	1874	0	AGGCAGCACCTGGCAATGGC
410690	2-13-5	383	1856	1875	0	CAGGCAGCACCTGGCAATGG
410691	2-13-5	384	1857	1876	0	GCAGGCAGCACCTGGCAATG
410692	2-13-5	58	1858	1877	0	AGCAGGCAGCACCTGGCAAT
410693	2-13-5	385	1859	1878	0	TAGCAGGCAGCACCTGGCAA
410694	2-13-5	388	1915	1934	0	GTCCCCATGCTGGCCTCAGC
410695	2-13-5	389	1916	1935	0	GGTCCCCATGCTGGCCTCAG
410696	2-13-5	390	1917	1936	0	GGGTCCCCATGCTGGCCTCA
410697	2-13-5	391	1918	1937	0	CGGGTCCCCATGCTGGCCTC
410698	2-13-5	392	1919	1938	0	ACGGGTCCCCATGCTGGCCT
410699	2-13-5	59	1920	1939	0	CACGGGTCCCCATGCTGGCC
410700	2-13-5	393	1921	1940	0	ACACGGGTCCCCATGCTGGC
410701	2-13-5	394	1922	1941	0	GACACGGGTCCCCATGCTGG
410702	2-13-5	395	1923	1942	0	GGACACGGGTCCCCATGCTG

ISIS No.	Motif	SEQ ID NO	5' start site to SEQ ID NO: 1	3' Start Site to SEQ ID NO: 1	Mismatches	Sequences (5' to 3')
410703	2-13-5	396	1924	1943	0	TGGACACGGGTCCCCATGCT
410704	2-13-5	397	1925	1944	0	GTGGACACGGGTCCCCATGC
410705	2-13-5	398	1926	1945	0	AGTGGACACGGGTCCCCATG
410706	2-13-5	399	1927	1946	0	CAGTGGACACGGGTCCCCAT
410707	2-13-5	400	1928	1947	0	GCAGTGGACACGGGTCCCCA
410708	2-13-5	401	1929	1948	0	GGCAGTGGACACGGGTCCCC
410709	2-13-5	402	1930	1949	0	TGGCAGTGGACACGGGTCCC
410710	2-13-5	403	1931	1950	0	GTGGCAGTGGACACGGGTCC
410711	2-13-5	404	1932	1951	0	GGTGGCAGTGGACACGGGTTC
410712	2-13-5	405	1933	1952	0	TGGTGGCAGTGGACACGGGT
410713	2-13-5	60	2100	2119	0	CTTTGCATTCCAGACCTGGG
410714	2-13-5	411	2101	2120	0	ACTTTGCATTCCAGACCTGG
410715	2-13-5	412	2102	2121	0	GACTTTGCATTCCAGACCTG
410716	2-13-5	413	2103	2122	0	TGACTTTGCATTCCAGACCT
410717	2-13-5	414	2104	2123	0	TTGACTTTGCATTCCAGACC
410718	2-13-5	61	2105	2124	0	CTTGACTTTGCATTCCAGAC
410719	2-13-5	419	2305	2324	0	CAGATGGCAACGGCTGTCAC
410720	2-13-5	420	2306	2325	0	GCAGATGGCAACGGCTGTCA
410721	2-13-5	421	2307	2326	0	AGCAGATGGCAACGGCTGTC
410722	2-13-5	422	2308	2327	0	CAGCAGATGGCAACGGCTGT
410723	2-13-5	423	2309	2328	0	GCAGCAGATGGCAACGGCTG
410724	2-13-5	62	2310	2329	0	GGCAGCAGATGGCAACGGCT
410725	2-13-5	424	2311	2330	0	CGGCAGCAGATGGCAACGGC
410726	2-13-5	425	2312	2331	0	CCGGCAGCAGATGGCAACGG
410727	2-13-5	426	2313	2332	0	TCCGGCAGCAGATGGCAACG
410728	2-13-5	427	2314	2333	0	CTCCGGCAGCAGATGGCAAC
410729	2-13-5	428	2315	2334	0	GCTCCGGCAGCAGATGGCAA

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 1. In certain such embodiments, the nucleotide sequences illustrated in Table 1 have a 3-13-4 gap-widened motif. Table 5 illustrates gap-widened antisense compounds targeted to SEQ ID NO: 1, having a 3-13-4 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10 **Table 5: Gapmer antisense compounds having a 3-13-4 motif targeted to SEQ ID NO: 1**

Oligo	Motif	SEQ ID NO:	5' start site	3' Start Site	Mismatches	OligoSeq
405526	3-13-4	236	963	982	0	CCAGGTGGGTGCCATGACTG
405557	3-13-4	50	1569	1588	0	GGTCCTCAGGGAACCAGGCC
405564	3-13-4	373	1737	1756	0	AACTGGAGCAGCTCAGCAGC

The following embodiments set forth target regions of PCSK9 nucleic acids. Also illustrated are examples of antisense compounds targeted to the target regions. It is understood that the sequence set forth in each SEQ ID NO is independent of any modification to a sugar moiety, an internucleoside linkage, or a nucleobase. As such, antisense compounds defined by a SEQ ID NO may comprise, independently, one or more modifications to a sugar moiety, an internucleoside linkage, or a nucleobase. Antisense compounds described by Isis Number (Isis No) indicate a combination of nucleobase sequence and motif.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common.

10 In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets the following nucleotide regions of SEQ ID: 1: 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909,

15 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406,

20 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761, 1735-1765, 1740-1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879, 1853-1879, 1854-1879, 1905-1955, 1915-1942,

25 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434, 2504-2528, 2509-2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252,

30 3227-3456, 3472-3496, or 3543-3569.

In certain embodiments, a target region is nucleotides 294-317 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 294-317 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 159 or 160. In certain such embodiments, an antisense compound targeted to nucleotides 294-317 of SEQ ID NO: 1 is selected from ISIS NOs: 410742 or 405999.

In certain embodiments, a target region is nucleotides 406-440 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 406-440 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 7, 8, 162, 163, 164, 165, 166, 167, 168, 169 or 170. In certain such embodiments, an antisense compound targeted to nucleotides 406-440 of SEQ ID NO: 1 is selected from ISIS NOs: 405861, 405862, 405863, 405864, 395152, 399874, 405865, 405866, 405867, 405868, 399793, 399949, or 410743.

In certain embodiments, a target region is nucleotides 406-526 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 406-526 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 7, 8, 9, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, or 176. In certain such embodiments, an antisense compound targeted to nucleotides 406-526 of SEQ ID NO: 1 is selected from ISIS NOs: 405861, 405862, 405863, 405864, 395152, 399874, 405865, 405866, 405867, 405868, 399793, 399950, 410743, 410744, 410745, 395153, 399875, 406000, 406001, 406002 or 410746.

In certain embodiments, a target region is nucleotides 410-436 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 410-436 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 7, 8, 166, 167, 168, 169 or 169. In certain such embodiments, an antisense compound targeted to nucleotides 410-436 of SEQ ID NO: 1 is selected from ISIS NOs: 395152, 399874, 405865, 405866, 405867, 405868, or 399793.

In certain embodiments, a target region is nucleotides 410-499 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 410-499 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 7, 8, 9, 166, 167, 169, 170, 171 or 172. In certain such embodiments, an antisense compound targeted to nucleotides 410-499 of SEQ ID NO: 1 is selected from ISIS NOs: 395152, 399874, 405865, 405866, 405867, 405868, 399793, 399949, 410743, 410744, 410745, 395153, or 399875.

In certain embodiments, a target region is nucleotides 446-526 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 446-526 SEQ ID NO: 1.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 9, 171, 172, 173, 174, 175 or 176. In certain such embodiments, an antisense compound targeted to nucleotides 446-526 of SEQ ID NO: 1 is selected from ISIS NOs: 410744, 410745, 395153, 399875, 406000, 406001, 406002, or 410746.

5 In certain embodiments, a target region is nucleotides 545-581 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 545-581 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 10, 177, 178, 179, 180 or 181. In certain such embodiments, an antisense compound targeted to nucleotides 545-581 of SEQ ID NO: 1 is
10 selected from ISIS NOs: 410747, 406003, 406004, 406005, 395154, 399876, or 406006.

In certain embodiments, a target region is nucleotides 591-619 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 591-619 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 182, 183, 184, 185 or 186. In certain such
15 embodiments, an antisense compound targeted to nucleotides 591-619 of SEQ ID NO: 1 is selected from ISIS NOs: 410748, 406007, 410529, 410574, 410647, 410530, 410575, 410648, 410531, 410576, 410649, 395155, 399877, or 410650.

In certain embodiments, a target region is nucleotides 591-704 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 591-704 SEQ ID NO: 1.
20 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 12, 13, 14, 15, 16, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, or 208. In certain such embodiments, an antisense compound targeted to nucleotides 591-704 of SEQ ID NO: 1 is selected from ISIS NOs: 410748, 406007, 410529, 410574, 410647,
25 410530, 410575, 410648, 410531, 410576, 410649, 395155, 399877, 410650, 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655, 399794, 399950, 410656, or 410751.

In certain embodiments, a target region is nucleotides 591-743 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 591-743 SEQ ID NO: 1.
30 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 12, 13, 14, 15, 16, 17, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, or 209. In certain such embodiments, an antisense compound targeted to

nucleotides 591-743 of SEQ ID NO: 1 is selected from ISIS NOs: 410748, 406007, 410529, 410574, 410647, 410530, 410575, 410648, 410531, 410576, 410649, 395155, 399877, 410650, 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655, 399794, 399950, 410656, or 410752.

5 In certain embodiments, a target region is nucleotides 595-622 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 595-622 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 183, 184, 185, 186, 187, 188, or 189. In certain such embodiments, an antisense compound targeted to nucleotides 595-622 of SEQ ID
10 NO: 1 is selected from ISIS NOs: 406007, 410529, 410574, 410647, 410530, 410575, 410648, 410531, 410576, 410649, 395155, 399877, 410650, 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, or 410653.

In certain embodiments, a target region is nucleotides 600-626 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 600-626 SEQ ID NO: 1.
15 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 12, 87, 188, 189, 190, 191, or 192. In certain such embodiments, an antisense compound targeted to nucleotides 600-626 of SEQ ID NO: 1 is selected from ISIS NOs: 395155, 399877, 410650, 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655,
20 399794, 399950, 410656, 410535, 410582, or 410657.

In certain embodiments, a target region is nucleotides 600-639 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 600-639 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 12, 13, 14, 187, 188, 189, 190, 191, 192,
25 193, 194, 195, or 196. In certain such embodiments, an antisense compound targeted to nucleotides 600-639 of SEQ ID NO: 1 is selected from ISIS NOs: 395155, 399877, 410650, 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655, 399794, 399950, 410656, 410535, 410582, 410657, 406010, 406011, 406012, 399795, 399951, 406013, 395156, or 399878.

30 In certain embodiments, a target region is nucleotides 600-670 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 600-670 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 11, 12, 13, 14, 15, 16, 187, 188, 189, 190, 191,

192, 193, 194, 195, 196, 197, 198, or 199. In certain such embodiments, an antisense compound targeted to nucleotides 600-670 of SEQ ID NO: 1 is selected from ISIS NOs: 395155, 399877, 410650, 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655, 399794, 399950, 410656, 410535, 410582, 410657, 5 406010, 406011, 406012, 399795, 399951, 406013, 395156, 399878, or 399952.

In certain embodiments, a target region is nucleotides 601-628 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 601-628 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 187, 188, 189, 190, 191, 192 or 193. In 10 certain such embodiments, an antisense compound targeted to nucleotides 601-628 of SEQ ID NO: 1 is selected from ISIS NOs: 410532, 410577, 410651, 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655, 399794, 399950, 410656, 410535, 410582, 410657, or 406010.

In certain embodiments, a target region is nucleotides 602-628 of SEQ ID NO: 1. In 15 certain embodiments, an antisense compound is targeted to nucleotides 602-628 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 188, 189, 190, 191, 192 or 193. In certain such embodiments, an antisense compound targeted to nucleotides 602-628 of SEQ ID NO: 1 is selected from ISIS NOs: 406008, 410578, 410652, 410533, 410579, 410653, 406009, 410580, 20 410654, 410534, 410581, 410655, 399794, 399950, 410656, 410535, 410582, 410657, or 406010.

In certain embodiments, a target region is nucleotides 603-630 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 603-630 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a 25 nucleotide sequence selected from SEQ ID NOs: 12, 189, 190, 191, 192, 193 or 194. In certain such embodiments, an antisense compound targeted to nucleotides 603-630 of SEQ ID NO: 1 is selected from ISIS NOs: 410533, 410579, 410653, 406009, 410580, 410654, 410534, 410581, 410655, 399794, 399950, 410656, 410535, 410582, 410657, 406010, or 406011.

In certain embodiments, a target region is nucleotides 611-636 of SEQ ID NO: 1. In 30 certain embodiments, an antisense compound is targeted to nucleotides 611-636 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 13, 194, 195 or 196. In certain such

embodiments, an antisense compound targeted to nucleotides 611-636 of SEQ ID NO: 1 is selected from ISIS NOs: 406011, 406012, 399795, 399951, or 406013.

In certain embodiments, a target region is nucleotides 620-647 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 620-647 SEQ ID NO: 1.

5 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 14 or 197. In certain such embodiments, an antisense compound targeted to nucleotides 620-647 of SEQ ID NO: 1 is selected from ISIS NOs: 395156, 399878, or 410749.

10 In certain embodiments, a target region is nucleotides 638-665 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 638-665 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 15 or 198. In certain such embodiments, an antisense compound targeted to nucleotides 638-665 of SEQ ID NO: 1 is selected from ISIS NOs: 410750, 395157, or 399879.

15 In certain embodiments, a target region is nucleotides 648-674 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 648-674 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 16, 199, 200, or 201. In certain such embodiments, an antisense compound targeted to nucleotides 648-674 of SEQ ID NO: 1 is selected from ISIS NOs: 406014, 399796, 399952, 406015, or 406016.

20 In certain embodiments, a target region is nucleotides 657-684 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 657-684 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 202, 203, 204, 205, or 206. In certain such
25 embodiments, an antisense compound targeted to nucleotides 657-684 of SEQ ID NO: 1 is selected from ISIS NOs: 410730, 406017, 406018, 406019, or 406020.

In certain embodiments, a target region is nucleotides 705-743 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 705-743 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 17 or 209. In certain such embodiments, an antisense compound targeted to nucleotides 705-743 of SEQ ID NO: 1 is selected from ISIS NOs: 395158, 399880, or 410752.

In certain embodiments, a target region is nucleotides 782-810 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 782-810 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 18, 210, 211, 212, 213, or 214. In certain such
5 embodiments, an antisense compound targeted to nucleotides 782-810 of SEQ ID NO: 1 is selected from ISIS NOs: 406021, 406022, 395159, 399881, 406023, 406024, or 410732.

In certain embodiments, a target region is nucleotides 821-859 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 821-859 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 19, 20, 215, 216 or 217. In certain such embodiments, an antisense compound targeted to nucleotides 821-859 of SEQ ID NO: 1 is selected from ISIS NOs: 410753, 406025, 395160, 399882, 406026, 399797, or 399953.

In certain embodiments, a target region is nucleotides 835-859 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 835-859 SEQ ID NO: 1.
15 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 19, 20 or 217. In certain such embodiments, an antisense compound targeted to nucleotides 835-859 of SEQ ID NO: 1 is selected from ISIS NOs: 395160, 399882, 406026, 399797, or 399953.

In certain embodiments, a target region is nucleotides 835-917 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 835-917 SEQ ID NO: 1.
20 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 19, 20, 21, 22, 23, 24, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232 or 233. In certain such embodiments, an antisense compound targeted to nucleotides 835-917 of SEQ ID NO: 1 is selected from ISIS
25 NOs: 395160, 399882, 406026, 399797, 399953, 395161, 399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 399799, 399955, 406030, 406031, 410733, 406032, 395162, 399884, or 410754.

In certain embodiments, a target region is nucleotides 835-942 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 835-942 SEQ ID NO: 1.
30 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 19, 20, 21, 22, 23, 24, 25, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, or 233. In certain such embodiments, an antisense compound targeted to nucleotides 835-942 of SEQ ID NO: 1 is selected from ISIS

NOs: 395160, 399882, 406026, 399797, 399953, 395161, 399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 399799, 399955, 406030, 406031, 410733, 406032, 395162, 399884, 410754, 395163, or 399885.

In certain embodiments, a target region is nucleotides 860-887 of SEQ ID NO: 1. In
5 certain embodiments, an antisense compound is targeted to nucleotides 860-887 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 22, 218, 219, 220, 221, 222 or 223. In
certain such embodiments, an antisense compound targeted to nucleotides 860-887 of SEQ ID
NO: 1 is selected from ISIS NOs: 395161, 399883, 405869, 405870, 405871, 405872, 399798,
10 399954, 405873, or 405874.

In certain embodiments, a target region is nucleotides 860-899 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 860-899 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 22, 23, 218, 219, 220, 221, 222, 223, 224,
15 225, 226, 227 or 228. In certain such embodiments, an antisense compound targeted to
nucleotides 860-899 of SEQ ID NO: 1 is selected from ISIS NOs: 395161, 399883, 405869,
405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028,
406029, 399799, or 399955.

In certain embodiments, a target region is nucleotides 860-909 of SEQ ID NO: 1. In
20 certain embodiments, an antisense compound is targeted to nucleotides 860-909 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 22, 23, 24, 218, 219, 220, 221, 222, 223,
224, 225, 226, 227, 228, 229, 230, 231 or 232. In certain such embodiments, an antisense
compound targeted to nucleotides 860-909 of SEQ ID NO: 1 is selected from ISIS NOs: 395161,
25 399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876,
406027, 406028, 406029, 399799, 399955, 406030, 406031, 410733, 406032, 395162, or
399884.

In certain embodiments, a target region is nucleotides 860-917 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 860-917 SEQ ID NO: 1.
30 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 22, 23, 24, 218, 219, 220, 221, 222, 223,
224, 225, 226, 227, 228, 229, 230, 231, 232, or 233. In certain such embodiments, an antisense
compound targeted to nucleotides 860-917 of SEQ ID NO: 1 is selected from ISIS NOs: 395161,

399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 399799, 399955, 406030, 406031, 410733, 406032, 395162, 399884, or 410754.

In certain embodiments, a target region is nucleotides 869-895 of SEQ ID NO: 1. In
5 certain embodiments, an antisense compound is targeted to nucleotides 869-895 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 224, 225, 226, or 227. In certain such embodiments, an antisense compound targeted to nucleotides 869-895 of SEQ ID NO: 1 is selected from ISIS NOs: 405875, 405876, 406027, or 406028.

10 In certain embodiments, a target region is nucleotides 878-905 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 878-905 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 23, 228, 229, 230, or 231. In certain such
15 embodiments, an antisense compound targeted to nucleotides 878-905 of SEQ ID NO: 1 is selected from ISIS NOs: 406029, 399799, 399955, 406030, 406031, or 410733.

In certain embodiments, a target region is nucleotides 888-909 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 888-909 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 24 or 232. In certain such embodiments, an
20 antisense compound targeted to nucleotides 888-909 of SEQ ID NO: 1 is selected from ISIS NOs: 406032, 395162, or 399884.

In certain embodiments, a target region is nucleotides 923-952 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 923-952 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 25 or 234. In certain such embodiments, an antisense compound targeted to nucleotides 923-952 of SEQ ID NO: 1 is selected from ISIS NOs: 395163, 399885, or 410755.

In certain embodiments, a target region is nucleotides 960-1034 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 960-1034 SEQ ID NO: 1.
30 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 26, 27, 28, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, or 256. In certain such embodiments, an antisense compound targeted to nucleotides 960-1034 of SEQ ID NO: 1 is

selected from ISIS NOs: 410756, 405526, 405604, 406033, 395164, 399886, 406034, 399800, 399956, 406035, 410757, 406036, 406037, 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, or 410758.

5 In certain embodiments, a target region is nucleotides 960-1173 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 960-1173 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 26, 27, 28, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260,
10 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, or 273. In certain such embodiments, an antisense compound targeted to nucleotides 960-1173 of SEQ ID NO: 1 is selected from ISIS NOs: 410756, 405526, 405604, 406033, 395164, 399886, 406034, 399800, 399956, 406035, 410757, 406036, 406037, 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880,
15 or 410763.

In certain embodiments, a target region is nucleotides 960-986 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 960-986 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 235, 236, or 237. In certain such embodiments,
20 an antisense compound targeted to nucleotides 960-986 of SEQ ID NO: 1 is selected from ISIS NOs: 410756, 405526, 405604, or 406033.

In certain embodiments, a target region is nucleotides 967-991 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 967-991 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 237 or 238. In certain such embodiments, an antisense compound targeted to nucleotides 967-991 of SEQ ID NO: 1 is selected from ISIS NOs: 406033 or 406034.

In certain embodiments, a target region is nucleotides 970-1023 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 970-1023 SEQ ID NO: 1.
30 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 26, 27, 28, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, or 249. In certain such embodiments, an antisense compound targeted to nucleotides 970-1023 of SEQ ID NO: 1 is selected from ISIS NOs: 395164, 399886, 406034,

399800, 399956, 406035, 410757, 406036, 406037, 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, or 410665.

In certain embodiments, a target region is nucleotides 970-1064 of SEQ ID NO: 1. In
5 certain embodiments, an antisense compound is targeted to nucleotides 970-1064 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 26, 27, 28, 29, 30, 238, 239, 240, 241, 242, 243,
244, 245, 246, 247, 248, 149, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, or
263. In certain such embodiments, an antisense compound targeted to nucleotides 970-1064 of
10 SEQ ID NO: 1 is selected from ISIS NOs: 395164, 399886, 406034, 399800, 399956, 406035,
410757, 406036, 406037, 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585,
410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880,
410589, 410664, 395165, 399887, or 399957.

In certain embodiments, a target region is nucleotides 970-1117 of SEQ ID NO: 1. In
15 certain embodiments, an antisense compound is targeted to nucleotides 970-1117 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 26, 27, 28, 29, 30, 31, 32, 238, 239, 240, 241,
242, 243, 244, 245, 246, 247, 248, 149, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260,
261, 262, 263, 264, 265, or 266. In certain such embodiments, an antisense compound targeted
20 to nucleotides 970-1117 of SEQ ID NO: 1 is selected from ISIS NOs: 395164, 399886, 406034,
399800, 399956, 406035, 410757, 406036, 406037, 410536, 410583, 410658, 410537, 410584,
410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879,
410588, 410663, 405880, 410589, 410664, 395165, 399887, or 399890.

In certain embodiments, a target region is nucleotides 970-996 of SEQ ID NO: 1. In
25 certain embodiments, an antisense compound is targeted to nucleotides 970-996 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 26, 27, or 238. In certain such embodiments, an
antisense compound targeted to nucleotides 970-996 of SEQ ID NO: 1 is selected from ISIS
NOs: 395164, 399886, 406034, 399800, 399956, or 406035.

30 In certain embodiments, a target region is nucleotides 977-1004 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 977-1004 SEQ ID NO: 1.
In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 239 or 240. In certain such embodiments, an

antisense compound targeted to nucleotides 977-1004 of SEQ ID NO: 1 is selected from ISIS NOs: 406035 or 410757.

In certain embodiments, a target region is nucleotides 985-1011 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 985-1011 SEQ ID NO: 1.

5 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 240, 241, or 242. In certain such embodiments, an antisense compound targeted to nucleotides 985-1011 of SEQ ID NO: 1 is selected from ISIS NOs: 410757, 406036, or 406037.

10 In certain embodiments, a target region is nucleotides 989-1016 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 989-1016 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 241, 242, or 243. In certain such embodiments, an antisense compound targeted to nucleotides 989-1016 of SEQ ID NO: 1 is selected from ISIS NOs: 406036, 406037, 410536, 410583, or 410658.

15 In certain embodiments, a target region is nucleotides 992-1019 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 992-1019 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 242, 243, 244, 245, or 246. In certain such embodiments, an antisense compound targeted to nucleotides 992-1019 of SEQ ID NO: 1 is
20 selected from ISIS NOs: 406037, 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, or 410661.

In certain embodiments, a target region is nucleotides 997-1024 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 997-1024 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 243, 244, 245, 246, 247, 248, 249, or 250. In certain such embodiments, an antisense compound targeted to nucleotides 997-1024 of SEQ ID NO: 1 is selected from ISIS NOs: 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 409126, 410665, 405881, 410590, or 410666.

30 In certain embodiments, a target region is nucleotides 997-1024 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 997-1024 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 243, 244, 245, 246, 247, 248, 249, or 250. In

certain such embodiments, an antisense compound targeted to nucleotides 997-1024 of SEQ ID NO: 1 is selected from ISIS NOs: 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 409126, 410665, 405881, 410590, or 410666.

5 In certain embodiments, a target region is nucleotides 998-1025 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 998-1025 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 244, 245, 246, 247, 248, 249, 250, or 251. In certain such embodiments, an antisense compound targeted to nucleotides 998-1025 of SEQ
10 ID NO: 1 is selected from ISIS NOs: 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 410665, 405881, 410590, 410666, 405882, 410591, or 410667.

In certain embodiments, a target region is nucleotides 999-1026 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 999-1026 SEQ ID NO: 1.
15 In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 245, 246, 247, 248, 249, 250, 251, or 252. In certain such embodiments, an antisense compound targeted to nucleotides 999-1026 of SEQ ID NO: 1 is selected from ISIS NOs: 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887,
20 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405833, 410592, or 410668.

In certain embodiments, a target region is nucleotides 1000-1027 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1000-1027 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 246, 247, 248, 249, 250, 251, 252, or 253.
25 In certain such embodiments, an antisense compound targeted to nucleotides 1000-1027 of SEQ ID NO: 1 is selected from ISIS NOs: 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405833, 410592, 410668, 405884, 410593, or 410669.

In certain embodiments, a target region is nucleotides 1001-1028 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1001-1028 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 247, 248, 249, 250, 251, 252, 253, or 254.
30 In certain such embodiments, an antisense compound targeted to nucleotides 1001-1028 of SEQ

ID NO: 1 is selected from ISIS NOs: 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405833, 410592, 410668, 405884, 410593, 410669, 410538, 410594, or 410670.

In certain embodiments, a target region is nucleotides 1002-1029 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1002-1029 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 248, 249, 250, 251, 252, 253, 254, or 255.

In certain such embodiments, an antisense compound targeted to nucleotides 1002-1029 of SEQ ID NO: 1 is selected from ISIS NOs: 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405833, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, or 410671.

In certain embodiments, a target region is nucleotides 1003-1029 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1003-1029 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 249, 250, 251, 252, 253, 254, or 255. In certain such embodiments, an antisense compound targeted to nucleotides 1003-1029 of SEQ ID NO: 1 is selected from ISIS NOs: 405880, 410589, 410664, 395165, 399887, 409126, 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, or 410671.

In certain embodiments, a target region is nucleotides 1004-1029 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1004-1029 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 250, 251, 252, 253, 254, or 255. In certain such embodiments, an antisense compound targeted to nucleotides 1004-1029 of SEQ ID NO: 1 is selected from ISIS NOs: 395165, 399887, 409126, 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, or 410671.

In certain embodiments, a target region is nucleotides 1005-1029 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1005-1029 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 250, 251, 252, 253, 254, or 255. In certain such embodiments, an antisense compound targeted to nucleotides 1005-1029 of SEQ ID NO: 1 is selected from ISIS NOs: 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405883,

410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, or 410671.

In certain embodiments, a target region is nucleotides 1006-1029 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1006-1029 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 251, 252, 253, 254, or 255. In certain such embodiments, an antisense compound targeted to nucleotides 1006-1029 of SEQ ID NO: 1 is selected from ISIS NOs: 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, or 410671.

10 In certain embodiments, a target region is nucleotides 1007-1034 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1007-1034 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 252, 253, 254, 255, or 256. In certain such embodiments, an antisense compound targeted to nucleotides 1007-1034 of SEQ ID NO: 1 is
15 selected from ISIS NOs: 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, 410671, or 410758.

In certain embodiments, a target region is nucleotides 1036-1061 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1036-1061 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 29, 257, 258, or 259. In certain such embodiments, an antisense compound targeted to nucleotides 1036-1061 of SEQ ID NO: 1 is selected from ISIS NOs: 406039, 406040, 395166, 399888, or 406041.

In certain embodiments, a target region is nucleotides 1045-1072 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1045-1072 SEQ ID NO:

25 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 30, 260, 261, or 262. In certain such embodiments, an antisense compound targeted to nucleotides 1045-1072 of SEQ ID NO: 1 is selected from ISIS NOs: 399801, 399957, 406042, 406043, or 406044.

In certain embodiments, a target region is nucleotides 1076-1096 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1076-1096 SEQ ID NO:

30 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 31 or 264. In certain such embodiments, an

antisense compound targeted to nucleotides 1076-1096 of SEQ ID NO: 1 is selected from ISIS NOs: 408642, 395167, or 399889.

In certain embodiments, a target region is nucleotides 1088-1115 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1088-1115 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 265 or 266. In certain such embodiments, an antisense compound targeted to nucleotides 1088-1115 of SEQ ID NO: 1 is selected from ISIS NOs: 410760 or 406045.

In certain embodiments, a target region is nucleotides 1098-1123 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1098-1123 SEQ ID NO:

10 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 32, 267, 268, or 269. In certain such embodiments, an antisense compound targeted to nucleotides 1098-1123 of SEQ ID NO: 1 is selected from ISIS NOs: 395168, 399890, 405909, 405910, or 405911.

In certain embodiments, a target region is nucleotides 1200-1251 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1200-1251 SEQ ID NO:

15 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 33, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, or 285. In certain such embodiments, an antisense compound targeted to nucleotides 1200-1251 of SEQ ID NO: 1 is selected from ISIS NOs: 410764, 395169, 399891, 405913, 405914, 405915, 405916, 410734, 405917, 405918, 405919, 405920, 405921, or 405922.

In certain embodiments, a target region is nucleotides 1210-1237 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1210-1237 SEQ ID NO:

25 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 33, 275, 276, 277, or 278. In certain such embodiments, an antisense compound targeted to nucleotides 1210-1237 of SEQ ID NO: 1 is selected from ISIS NOs: 395169, 399891, 405913, 405914, 405915, or 405916.

In certain embodiments, a target region is nucleotides 1219-1245 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1219-1245 SEQ ID NO:

30 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 279, 280, 281 or 282. In certain such embodiments, an antisense compound targeted to nucleotides 1219-1245 of SEQ ID NO: 1 is selected from ISIS NOs: 410734, 405917, 405918, or 405919.

In certain embodiments, a target region is nucleotides 1228-1251 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1228-1251 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 283, 284, or 285. In certain such embodiments, an antisense compound targeted to nucleotides 1228-1251 of SEQ ID NO: 1 is selected from ISIS NOs: 405920, 405921, or 405922.

In certain embodiments, a target region is nucleotides 1273-1444 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1273-1444 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 34, 35, 36, 37, 38, 39, 40, 41, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 316, and 318. In certain such embodiments, an antisense compound targeted to nucleotides 1273-1444 of SEQ ID NO: 1 is selected from ISIS NOs: 410765, 410766, 405923, 395170, 399892, 410767, 405924, 410735, 405925, 405926, 395171, 399893, 405927, 395172, 399894, 405928, 399802, 399958, 405929, 395173, 399895, 405930, 405931, 405932, 405933, 405934, 399803, 399959, 405935, 410736, 405936, 395174, or 410769.

In certain embodiments, a target region is nucleotides 1295-1316 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1295-1316 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 149 or 288. In certain such embodiments, an antisense compound targeted to nucleotides 1295-1316 of SEQ ID NO: 1 is selected from ISIS NOs: 405923, 395170, or 399892.

In certain embodiments, a target region is nucleotides 1318-1345 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1318-1345 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 34, 290, 291, 292 or 293. In certain such embodiments, an antisense compound targeted to nucleotides 1318-1345 of SEQ ID NO: 1 is selected from ISIS NOs: 405924, 410735, 405925, 405926, 395171, or 399893.

In certain embodiments, a target region is nucleotides 1328-1354 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1328-1354 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 35, 128, 294 or 295. In certain such

embodiments, an antisense compound targeted to nucleotides 1328-1354 of SEQ ID NO: 1 is selected from ISIS NOs: 405927, 395172, 399894, 405928, 399802, or 399958.

In certain embodiments, a target region is nucleotides 1337-1361 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1337-1361 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 36, 296, or 297. In certain such embodiments, an antisense compound targeted to nucleotides 1337-1361 of SEQ ID NO: 1 is selected from ISIS NOs: 405929, 395173, 399895, or 405930.

10 In certain embodiments, a target region is nucleotides 1344-1371 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1344-1371 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 37, 298, 299, 300, or 301. In certain such embodiments, an antisense compound targeted to nucleotides 1344-1371 of SEQ ID NO: 1 is selected from ISIS NOs: 405931, 405932, 405933, 405934, 399803, or 399959.

15 In certain embodiments, a target region is nucleotides 1354-1377 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1354-1377 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 302, 303, or 304. In certain such embodiments, an antisense compound targeted to nucleotides 1354-1377 of SEQ ID NO: 1 is selected from ISIS NOs: 405935, 410736, or 405936.

20 In certain embodiments, a target region is nucleotides 1380-1406 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1380-1406 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 305 or 306. In certain such embodiments, an antisense compound targeted to nucleotides 1380-1406 of SEQ ID NO: 1 is selected from ISIS NOs: 410768 or 405937.

30 In certain embodiments, a target region is nucleotides 1389-1416 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1389-1416 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 39, 307, 308, 309 or 310. In certain such embodiments, an antisense compound targeted to nucleotides 1389-1416 of SEQ ID NO: 1 is selected from ISIS NOs: 395175, 399897, 405938, 405939, 405940, or 405941.

In certain embodiments, a target region is nucleotides 1400-1426 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1400-1426 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 40, 311, 312, 313, or 314. In certain such
5 embodiments, an antisense compound targeted to nucleotides 1400-1426 of SEQ ID NO: 1 is selected from ISIS NOs: 399804, 399960, 405942, 405943, 410737, or 405944.

In certain embodiments, a target region is nucleotides 1409-1434 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1409-1434 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 41, 315, 316, or 317. In certain such embodiments, an antisense compound targeted to nucleotides 1409-1434 of SEQ ID NO: 1 is selected from ISIS NOs: 405945, 399805, 399961, 405946, or 405947.

In certain embodiments, a target region is nucleotides 1465-1491 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1465-1491 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
15 nucleotide sequence selected from SEQ ID NOs: 42, 101, 319, or 320. In certain such embodiments, an antisense compound targeted to nucleotides 1465-1491 of SEQ ID NO: 1 is selected from ISIS NOs: 395176, 399898, 405948, 399806, 399962, or 405949.

In certain embodiments, a target region is nucleotides 1465-1602 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1465-1602 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 87, 101, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357,
25 358, or 359. In certain such embodiments, an antisense compound targeted to nucleotides 1465-1602 of SEQ ID NO: 1 is selected from ISIS NOs: 395176, 399898, 405948, 399806, 399962, 405949, 405950, 405951, 399807, 399963, 405952, 410738, 405953, 405954, 410770, 405955, 405956, 405957, 405958, 405959, 405960, 405961, 399808, 399964, 405962, 410739, 405963, 395177, 399899, 405964, 399809, 399965, or 399969.

In certain embodiments, a target region is nucleotides 1474-1499 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1474-1499 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 43, 321, 322, or 323. In certain such

embodiments, an antisense compound targeted to nucleotides 1474-1499 of SEQ ID NO: 1 is selected from ISIS NOs: 405950, 405951, 399807, 399963, or 405952.

In certain embodiments, a target region is nucleotides 1482-1519 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1482-1519 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 324, 325, 326, or 327. In certain such embodiments, an antisense compound targeted to nucleotides 1482-1519 of SEQ ID NO: 1 is selected from ISIS NOs: 410738, 405953, 405954, or 410770.

10 In certain embodiments, a target region is nucleotides 1513-1540 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1513-1540 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 328, 329, 330, 331, or 332. In certain such embodiments, an antisense compound targeted to nucleotides 1513-1540 of SEQ ID NO: 1 is selected from ISIS NOs: 405955, 405956, 405957, 405958, or 405959.

15 In certain embodiments, a target region is nucleotides 1523-1549 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1523-1549 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 44, 333, 334, 335, or 336. In certain such embodiments, an antisense compound targeted to nucleotides 1523-1549 of SEQ ID NO: 1 is selected from ISIS NOs: 405960, 405961, 399808, 399964, 405962, or 410739.

20 In certain embodiments, a target region is nucleotides 1526-1602 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1526-1602 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 44, 45, 46, 47, 48, 49, 50, 51, 87, 335, 336, 337, 25 338, 339, 340, 341, 342, 343, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, or 359. In certain such embodiments, an antisense compound targeted to nucleotides 1526-1602 of SEQ ID NO: 1 is selected from ISIS NOs: 399808, 399964, 405962, 410739, 405963, 395177, 399899, 405964, 399809, 399965, 405965, 405966, 399810, 399966, 405967, 405968, 399811, 399967, 405969, 405970, 410740, 405885, 405886, 405887, 410596, 410672, 405888, 30 410597, 410673, 399812, 399968, 410674, or 399969.

In certain embodiments, a target region is nucleotides 1526-1624 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1526-1624 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 44, 45, 46, 47, 48, 49, 50, 51, 87, 119, 335, 336, 337, 338, 339, 340, 341, 342, 343, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, or 359. In certain such embodiments, an antisense compound targeted to nucleotides 1526-1624 of SEQ ID NO: 1 is selected from ISIS NOs: 399808, 399964, 405962, 410739, 405963, 395177, 399899, 405964, 399809, 399965, 405965, 405966, 399810, 399966, 405967, 405968, 399811, 399967, 405969, 405970, 410740, 405885, 405886, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, or 399902.

In certain embodiments, a target region is nucleotides 1532-1558 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1532-1558 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 45, 46, 337, or 338. In certain such embodiments, an antisense compound targeted to nucleotides 1532-1558 of SEQ ID NO: 1 is selected from ISIS NOs: 405963, 395177, 399899, 405964, 399809, or 399965.

In certain embodiments, a target region is nucleotides 1541-1568 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1541-1568 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 47, 340, 341, or 342. In certain such embodiments, an antisense compound targeted to nucleotides 1541-1568 of SEQ ID NO: 1 is selected from ISIS NOs: 405965, 405966, 399810, 399966, 405967, or 405968.

In certain embodiments, a target region is nucleotides 1552-1579 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1552-1579 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 48, 343, 344, 345, or 346. In certain such embodiments, an antisense compound targeted to nucleotides 1552-1579 of SEQ ID NO: 1 is selected from ISIS NOs: 399811, 399967, 405969, 405970, 410740, or 405885.

In certain embodiments, a target region is nucleotides 1560-1587 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1560-1587 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 346, 347, 348, 349, 350, 351, 352, or 353. In certain such embodiments, an antisense compound targeted to nucleotides 1560-1587 of SEQ ID NO: 1 is selected from ISIS NOs: 405885, 405886, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, or 410678.

In certain embodiments, a target region is nucleotides 1561-1589 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1561-1589 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 346, 347, 348, 349, 350, 351, 352, 353, or 354. In certain such embodiments, an antisense compound targeted to nucleotides 1561-1589 of SEQ ID NO: 1 is selected from ISIS NOs: 405886, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 405557, 410679, 408653, 410602, or 410680.

10 In certain embodiments, a target region is nucleotides 1564-1591 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1564-1591 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 350, 351, 352, 353, 354, 355, or 356. In certain such embodiments, an antisense compound targeted to nucleotides 1564-1591 of SEQ ID NO: 1 is selected from ISIS NOs: 399812, 399968, 410674, 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 405557, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, or 410682.

In certain embodiments, a target region is nucleotides 1565-1592 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1565-1592 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 50, 350, 351, 352, 353, 354, 355, 356, or 357. In certain such embodiments, an antisense compound targeted to nucleotides 1565-1592 of SEQ ID NO: 1 is selected from ISIS NOs: 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 405557, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, 410682, or 405972.

25 In certain embodiments, a target region is nucleotides 1566-1592 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1566-1592 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 50, 351, 352, 353, 354, 355, 356, or 357. In certain such embodiments, an antisense compound targeted to nucleotides 1566-1592 of SEQ ID NO: 1 is selected from ISIS NOs: 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 405557, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, 410682, or 405972.

In certain embodiments, a target region is nucleotides 1567-1592 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1567-1592 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 50, 352, 353, 354, 355, 356, or 357. In certain
5 such embodiments, an antisense compound targeted to nucleotides 1567-1592 of SEQ ID NO: 1 is selected from ISIS NOs: 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 405557, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, 410682, or 405972.

In certain embodiments, a target region is nucleotides 1570-1597 of SEQ ID NO: 1. In
10 certain embodiments, an antisense compound is targeted to nucleotides 1570-1597 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 354, 355, 356, 357 or 358. In certain such embodiments, an antisense compound targeted to nucleotides 1570-1597 of SEQ ID NO: 1 is selected from ISIS NOs: 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604,
15 410682, 405972 or 405973.

In certain embodiments, a target region is nucleotides 1571-1599 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1571-1599 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 87, 356, 357, 358, or 359. In certain such
20 embodiments, an antisense compound targeted to nucleotides 1571-1599 of SEQ ID NO: 1 is selected from ISIS NOs: 405971, 410603, 410681, 410540, 410604, 410682, 405972, 395179, 399901, 405973, or 405974.

In certain embodiments, a target region is nucleotides 1605-1706 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1605-1706 SEQ ID NO:
25 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 52, 53, 54, 119, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, or 371. In certain such embodiments, an antisense compound targeted to nucleotides 1605-1706 of SEQ ID NO: 1 is selected from ISIS NOs: 395180, 399902, 410771, 395181, 399903, 405975, 399814, 399970, 405976, 405977, 410772, 405978, 395182, 399904,
30 405979, 405980, 405981, 410741, 405982, or 405983.

In certain embodiments, a target region is nucleotides 1628-1706 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1628-1706 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 52, 53, 54, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, or 371. In certain such embodiments, an antisense compound targeted to nucleotides 1628-1706 of SEQ ID NO: 1 is selected from ISIS NOs: 410771, 395181, 399903, 405975, 399814, 399970, 405976, 405977, 410772, 405978, 395182, 399904, 405979, 405980, 5 405981, 410741, 405982, or 405983.

In certain embodiments, a target region is nucleotides 1640-1666 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1640-1666 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 52, 53, 361, or 362. In certain such 10 embodiments, an antisense compound targeted to nucleotides 1640-1666 of SEQ ID NO: 1 is selected from ISIS NOs: 395181, 399903, 405975, 399814, 399970, or 405976.

In certain embodiments, a target region is nucleotides 1672-1698 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1672-1698 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a 15 nucleotide sequence selected from SEQ ID NOs: 54, 365, 366, or 367. In certain such embodiments, an antisense compound targeted to nucleotides 1672-1698 of SEQ ID NO: 1 is selected from ISIS NOs: 405978, 395182, 399904, 405979, or 405980.

In certain embodiments, a target region is nucleotides 1681-1706 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1681-1706 SEQ ID NO: 20 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 368, 369, 370, or 371. In certain such embodiments, an antisense compound targeted to nucleotides 1681-1706 of SEQ ID NO: 1 is selected from ISIS NOs: 405981, 410741, 405982, or 405983.

In certain embodiments, a target region is nucleotides 1735-1761 of SEQ ID NO: 1. In 25 certain embodiments, an antisense compound is targeted to nucleotides 1735-1761 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 372, 373, or 374. In certain such embodiments, an antisense compound targeted to nucleotides 1735-1761 of SEQ ID NO: 1 is selected from ISIS NOs: 405984, 405564, 405641, 405985, 399815, 399971, or 405986.

30 In certain embodiments, a target region is nucleotides 1735-1765 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1735-1765 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 56, 372, 373, 374, or 375. In certain such

embodiments, an antisense compound targeted to nucleotides 1735-1765 of SEQ ID NO: 1 is selected from ISIS NOs: 405984, 405564, 405641, 405985, 399815, 399971, 405986, 405987, 399816 or 399972.

5 In certain embodiments, a target region is nucleotides 1740-1765 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1740-1765 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 56, 374, or 375. In certain such embodiments, an antisense compound targeted to nucleotides 1740-1765 of SEQ ID NO: 1 is selected from ISIS NOs: 399815, 399971, 405986, 405987, 399816, or 399972.

10 In certain embodiments, a target region is nucleotides 1849-1876 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1849-1876 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 376, 377, 378, 379, 380, 381, 382, 383, or 384. In certain such embodiments, an antisense compound targeted to nucleotides 1849-1876 of SEQ
15 ID NO: 1 is selected from ISIS NOs: 410541, 410605, 410683, 410542, 410606, 410684, 410543, 410607, 410685, 410544, 410608, 410686, 410545, 410609, 410687, 405988, 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690, 410547, 410613, or 410691.

In certain embodiments, a target region is nucleotides 1849-1879 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1849-1879 SEQ ID NO:
20 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, or 386. In certain such embodiments, an antisense compound targeted to nucleotides 1849-1879 of SEQ ID NO: 1 is selected from ISIS NOs: 410541, 410605, 410683, 410542, 410606, 410684, 410543, 410607, 410685, 410544, 410608, 410686, 410545, 410609, 410687, 405988,
25 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690, 410547, 410613, 395184, 410691, 399906, 410692, 410548, 410614, or 405990.

In certain embodiments, a target region is nucleotides 1850-1877 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1850-1877 SEQ ID NO:
30 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 377, 378, 379, 380, 381, 382, 383 or 384. In certain such embodiments, an antisense compound targeted to nucleotides 1850-1877 of SEQ ID NO: 1 is selected from ISIS NOs: 410542, 410606, 410684, 410543, 410607, 410685,

410544, 410608, 410686, 410545, 410609, 410687, 405988, 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690, 410547, 410613, 395184, 410691, 399906, or 410692.

In certain embodiments, a target region is nucleotides 1851-1877 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1851-1877 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 378, 379, 380, 381, 382, 383, or 384. In certain such embodiments, an antisense compound targeted to nucleotides 1851-1877 of SEQ ID NO: 1 is selected from ISIS NOs: 410543, 410607, 410685, 410544, 410608, 410686, 410545, 410609, 410687, 405988, 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690,
10 410547, 410613, 395184, 410691, 399906, or 410692.

In certain embodiments, a target region is nucleotides 1852-1878 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1852-1878 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 379, 380, 381, 382, 383, 384, or 385. In
15 certain such embodiments, an antisense compound targeted to nucleotides 1852-1878 of SEQ ID NO: 1 is selected from ISIS NOs: 410544, 410608, 410686, 410545, 410609, 410687, 405988, 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690, 410547, 410613, 395184, 410691, 399906, 410692, 410548, 410614, or 410693.

In certain embodiments, a target region is nucleotides 1852-1879 of SEQ ID NO: 1. In

20 certain embodiments, an antisense compound is targeted to nucleotides 1852-1879 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 379, 380, 381, 382, 383, 384, 385, or 386. In certain such embodiments, an antisense compound targeted to nucleotides 1852-1879 of SEQ ID NO: 1 is selected from ISIS NOs: 410544, 410608, 410686, 410545, 410609, 410687,
25 405988, 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690, 410547, 410613, 395184, 410691, 399906, 410692, 410548, 410614, 410693, or 405990.

In certain embodiments, a target region is nucleotides 1853-1879 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1853-1879 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 58, 380, 381, 382, 383, 384, 385 or 386. In certain such embodiments, an antisense compound targeted to nucleotides 1853-1879 of SEQ ID NO: 1 is selected from ISIS NOs: 410545, 410609, 410687, 405988, 410610, 410688, 410546,

410611, 410689, 405989, 410612, 410690, 410547, 410613, 395184, 410691, 399906, 410692, 410548, 410614, 410693, or 405990.

In certain embodiments, a target region is nucleotides 1854-1879 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1854-1879 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 381, 382, 383, 384, 385, or 386. In certain such embodiments, an antisense compound targeted to nucleotides 1854-1879 of SEQ ID NO: 1 is selected from ISIS NOs: 405988, 410610, 410688, 410546, 410611, 410689, 405989, 410612, 410690, 410547, 410613, 395184, 410691, 399906, 410692, 410548, 410614, 410693, or
10 405990.

In certain embodiments, a target region is nucleotides 1905-1955 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1905-1955 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 387, 388, 389, 390, 391, 392, 393, 394, 395,
15 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, or 406. In certain such embodiments, an antisense compound targeted to nucleotides 1905-1955 of SEQ ID NO: 1 is selected from ISIS NOs: 410773, 410549, 410615, 410694, 410550, 410616, 410695, 410551, 410617, 410696, 410552, 410618, 410697, 410553, 410619, 410698, 395185, 399907, 410699, 410554, 410620, 410700, 405991, 410621, 410701, 410555, 410622, 410702, 405992, 410623, 410703, 410556,
20 or 410774.

In certain embodiments, a target region is nucleotides 1915-1942 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1915-1942 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 388, 389, 390, 391, 392, 393, 394, or 395.
25 In certain such embodiments, an antisense compound targeted to nucleotides 1915-1942 of SEQ ID NO: 1 is selected from ISIS NOs: 410549, 410615, 410694, 410550, 410616, 410695, 410551, 410617, 410696, 410552, 410618, 410697, 410553, 410619, 410698, 395185, 399907, 410699, 410554, 410620, 410700, 405991, 410621, 410701, 410555, 410622, or 410702.

In certain embodiments, a target region is nucleotides 1916-1943 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1916-1943 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 389, 390, 391, 392, 393, 394, 395, or 396.
30 In certain such embodiments, an antisense compound targeted to nucleotides 1916-1943 of SEQ

ID NO: 1 is selected from ISIS NOs: 410550, 410616, 410695, 410551, 410617, 410696, 410552, 410618, 410697, 410553, 410619, 410698, 395185, 399907, 410699, 410554, 410620, 410700, 405991, 410621, 410701, 410555, 410622, 410702, 405992, 410623, or 410703.

In certain embodiments, a target region is nucleotides 1917-1944 of SEQ ID NO: 1. In
5 certain embodiments, an antisense compound is targeted to nucleotides 1917-1944 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 59, 390, 391, 392, 393, 394, 395, 396, or 397.
In certain such embodiments, an antisense compound targeted to nucleotides 1917-1944 of SEQ
ID NO: 1 is selected from ISIS NOs: 410551, 410617, 410696, 410552, 410618, 410697,
10 410553, 410619, 410698, 395185, 399907, 410699, 410554, 410620, 410700, 405991, 410621,
410701, 410555, 410622, 410702, 405992, 410623, 410703, 410556, 410624, or 410704.

In certain embodiments, a target region is nucleotides 1918-1945 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 1918-1945 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
15 nucleotide sequence selected from SEQ ID NOs: 59, 391, 392, 393, 394, 395, 396, 397, or 398.
In certain such embodiments, an antisense compound targeted to nucleotides 1918-1945 of SEQ
ID NO: 1 is selected from ISIS NOs: 410552, 410618, 410697, 410553, 410619, 410698,
395185, 399907, 410699, 410554, 410620, 410700, 405991, 410621, 410701, 410555, 410622,
410702, 405992, 410623, 410703, 410556, 410624, 410704, 405993, 410625, or 410705.

In certain embodiments, a target region is nucleotides 1919-1946 of SEQ ID NO: 1. In
20 certain embodiments, an antisense compound is targeted to nucleotides 1919-1946 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 59, 392, 393, 394, 395, 396, 397, or 399. In
certain such embodiments, an antisense compound targeted to nucleotides 1919-1946 of SEQ ID
25 NO: 1 is selected from ISIS NOs: 410553, 410619, 410698, 395185, 399907, 410699, 410554,
410620, 410700, 405991, 410621, 410701, 410555, 410622, 410702, 405992, 410623, 410703,
410556, 410624, 410704, 405993, 410625, 410705, 410557, 410626, or 410706.

In certain embodiments, a target region is nucleotides 1920-1939 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 1920-1939 SEQ ID NO:
30 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 59. In certain such embodiments, an antisense
compound targeted to nucleotides 1920-1939 of SEQ ID NO: 1 is selected from ISIS NOs:
395185, 399907, or 410699.

In certain embodiments, a target region is nucleotides 1920-1947 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1920-1947 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 393, 394, 395, 396, 397, 398, 399, or 400.

5 In certain such embodiments, an antisense compound targeted to nucleotides 1920-1947 of SEQ ID NO: 1 is selected from ISIS NOs: 395185, 399907, 410699, 410554, 410620, 410700, 405991, 410621, 410701, 410555, 410622, 410702, 405992, 410623, 410703, 410556, 410624, 410704, 405993, 410625, 410705, 410557, 410626, 410706, 405944, 410627, or 410707.

In certain embodiments, a target region is nucleotides 1921-1948 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1921-1948 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 393, 394, 395, 396, 397, 398, 399, 400, or 401. In certain such embodiments, an antisense compound targeted to nucleotides 1921-1948 of SEQ ID NO: 1 is selected from ISIS NOs: 410554, 410620, 410700, 405991, 410621, 410701, 15 410555, 410622, 410702, 405992, 410623, 410703, 410556, 410624, 410704, 405993, 410625, 410705, 410557, 410626, 410706, 405944, 410627, 410707, 410558, 410628, or 410708.

In certain embodiments, a target region is nucleotides 1922-1949 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1922-1949 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 394, 395, 396, 397, 398, 399, 400, 401, or 402. In certain such embodiments, an antisense compound targeted to nucleotides 1922-1949 of SEQ ID NO: 1 is selected from ISIS NOs: 405991, 410621, 410701, 410555, 410622, 410702, 20 405992, 410623, 410703, 410556, 410624, 410704, 405993, 410625, 410705, 410557, 410626, 410706, 405944, 410627, 410707, 410558, 410628, 410708, 405995, 410629, or 410709.

25 In certain embodiments, a target region is nucleotides 1923-1950 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1923-1950 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 395, 396, 397, 398, 399, 400, 401, 402, or 403. In certain such embodiments, an antisense compound targeted to nucleotides 1923-1950 of SEQ ID NO: 1 is selected from ISIS NOs: 410555, 410622, 410702, 405992, 410623, 410703, 30 410556, 410624, 410704, 405993, 410625, 410705, 410557, 410626, 410706, 405944, 410627, 410707, 410558, 410628, 410708, 405995, 410629, 410709, 410559, 410630, or 410710.

In certain embodiments, a target region is nucleotides 1924-1951 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1924-1951 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 396, 397, 398, 399, 400, 401, 402, 403, or 404.

5 In certain such embodiments, an antisense compound targeted to nucleotides 1924-1951 of SEQ ID NO: 1 is selected from ISIS NOs: 405992, 410623, 410703, 410556, 410624, 410704, 405993, 410625, 410705, 410557, 410626, 410706, 405994, 410627, 410707, 410558, 410628, 410708, 405995, 410629, 410709, 410559, 410630, 410710, 410560, 410631, or 410711.

10 In certain embodiments, a target region is nucleotides 1925-1952 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1925-1952 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 397, 398, 399, 400, 401, 402, 403, 404, or 405. In certain such embodiments, an antisense compound targeted to nucleotides 1925-1952 of SEQ ID NO: 1 is selected from ISIS NOs: 410556, 410624, 410704, 405993, 410625, 410705,
15 410557, 410626, 410706, 405994, 410627, 410707, 410558, 410628, 410708, 405995, 410629, 410709, 410559, 410630, 410710, 410560, 410631, 410711, 410561, 410632, or 410712.

In certain embodiments, a target region is nucleotides 1926-1952 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1926-1952 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 398, 399, 400, 401, 402, 403, 404, or 405. In certain such embodiments, an antisense compound targeted to nucleotides 1926-1952 of SEQ ID NO: 1 is selected from ISIS NOs: 405993, 410625, 410705, 410557, 410626, 410706, 405994, 410627, 410707, 410558, 410628, 410708, 405995, 410629, 410709, 410559, 410630, 410710, 410560, 410631, 410711, 410561, 410632, or 410712.

25 In certain embodiments, a target region is nucleotides 1927-1952 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1927-1952 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 399, 400, 401, 402, 403, 404, or 405. In certain such embodiments, an antisense compound targeted to nucleotides 1927-1952 of SEQ ID NO: 1
30 is selected from ISIS NOs: 410557, 410626, 410706, 405994, 410627, 410707, 410558, 410628, 410708, 405995, 410629, 410709, 410559, 410630, 410710, 410560, 410631, 410711, 410561, 410632, or 410712.

In certain embodiments, a target region is nucleotides 1928-1955 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1928-1955 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 400, 401, 402, 403, 404, 405, or 406. In certain such embodiments, an antisense compound targeted to nucleotides 1928-1955 of SEQ ID NO: 1 is selected from ISIS NOs: 405994, 410627, 410707, 410558, 410628, 410708, 405995, 410629, 410709, 410559, 410630, 410710, 410560, 410631, 410711, 410561, 410632, 410712, or 410774.

In certain embodiments, a target region is nucleotides 1962-2059 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 1962-2059 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 407, 408, 409, or 410. In certain such embodiments, an antisense compound targeted to nucleotides 1962-2059 of SEQ ID NO: 1 is selected from ISIS NOs: 410775, 410776, 410777, or 410778.

In certain embodiments, a target region is nucleotides 2040-2126 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2040-2126 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 410, 411, 412, 413, 414, or 415. In certain such embodiments, an antisense compound targeted to nucleotides 2040-2126 of SEQ ID NO: 1 is selected from ISIS NOs: 410778, 395186, 399908, 410713, 410562, 410633, 410714, 405996, 410634, 410715, 410563, 410635, 410716, 410564, 410636, 410717, 399817, 399973, 410718, or 405997.

In certain embodiments, a target region is nucleotides 2100-2126 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2100-2126 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 411, 412, 413, 414, or 415. In certain such embodiments, an antisense compound targeted to nucleotides 2100-2126 of SEQ ID NO: 1 is selected from ISIS NOs: 395186, 399908, 410713, 410562, 410633, 410714, 405996, 410634, 410715, 410563, 410635, 410716, 410564, 410636, 410717, 399817, 399973, 410718 or 405997.

In certain embodiments, a target region is nucleotides 2100-2139 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2100-2139 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 411, 412, 413, 414, 415, or 416. In

certain such embodiments, an antisense compound targeted to nucleotides 2100-2139 of SEQ ID NO: 1 is selected from ISIS NOs: 395186, 399908, 410713, 410562, 410633, 410714, 405996, 410634, 410715, 410563, 410635, 410716, 410564, 410636, 410717, 399817, 399973, 410718, 405997 or 410779.

5 In certain embodiments, a target region is nucleotides 2100-2206 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2100-2206 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 411, 412, 413, 414, 415, 416, 417, or 418. In certain such embodiments, an antisense compound targeted to nucleotides 2100-2206 of
10 SEQ ID NO: 1 is selected from ISIS NOs: 395186, 399908, 410713, 410562, 410633, 410714, 405996, 410634, 410715, 410563, 410635, 410716, 410564, 410636, 410717, 399817, 399973, 410718, 405997, 405997, 410780, or 410781.

In certain embodiments, a target region is nucleotides 2101-2126 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2101-2126 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 61, 411, 412, 413, 414, or 415. In certain such
15 embodiments, an antisense compound targeted to nucleotides 2101-2126 of SEQ ID NO: 1 is selected from ISIS NOs: 410562, 410633, 410714, 405996, 410634, 410715, 410563, 410635, 410716, 410564, 410636, 410717, 399817, 399973, 410718, or 405997.

20 In certain embodiments, a target region is nucleotides 2305-2332 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2305-2332 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 419, 420, 421, 422, 423, 424, 425, or 426. In certain such embodiments, an antisense compound targeted to nucleotides 2305-2332 of SEQ
25 ID NO: 1 is selected from ISIS NOs: 410565, 410637, 410719, 410566, 410638, 410720, 410567, 410639, 410721, 410568, 410640, 410722, 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405998, 410644, or 410727.

In certain embodiments, a target region is nucleotides 2305-2354 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2305-2354 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 419, 420, 421, 422, 423, 424, 425, 426, 427,
30 428, 429, or 430. In certain such embodiments, an antisense compound targeted to nucleotides 2305-2354 of SEQ ID NO: 1 is selected from ISIS NOs: 410565, 410637, 410719, 410566,

410638, 410720, 410567, 410639, 410721, 410568, 410640, 410722, 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410783.

In certain embodiments, a target region is nucleotides 2306-2333 of SEQ ID NO: 1. In
5 certain embodiments, an antisense compound is targeted to nucleotides 2306-2333 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 62, 420, 421, 422, 423, 424, 425, 426, or 427.
In certain such embodiments, an antisense compound targeted to nucleotides 2306-2333 of SEQ
ID NO: 1 is selected from ISIS NOs: 410566, 410638, 410720, 410567, 410639, 410721,
10 410568, 410640, 410722, 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642,
410725, 410571, 410643, 410726, 405998, 410644, 410727, 410572, 410645, or 410728.

In certain embodiments, a target region is nucleotides 2307-2334 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 2307-2334 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
15 nucleotide sequence selected from SEQ ID NOs: 62, 421, 422, 423, 424, 425, 426, 427, or 428.
In certain such embodiments, an antisense compound targeted to nucleotides 2307-2334 of SEQ
ID NO: 1 is selected from ISIS NOs: 410567, 410639, 410721, 410568, 410640, 410722,
410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643,
410726, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

20 In certain embodiments, a target region is nucleotides 2308-2334 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 2308-2334 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 62, 422, 423, 424, 425, 426, 427, or 428. In
certain such embodiments, an antisense compound targeted to nucleotides 2308-2334 of SEQ ID
25 NO: 1 is selected from ISIS NOs: 410568, 410640, 410722, 410569, 410641, 410723, 395187,
399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405998, 410644, 410727,
410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2309-2334 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 2309-2334 SEQ ID NO:
30 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 62, 423, 424, 425, 426, 427, or 428. In certain
such embodiments, an antisense compound targeted to nucleotides 2309-2334 of SEQ ID NO: 1
is selected from ISIS NOs: 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642,

410725, 410571, 410643, 410726, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2310-2334 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2310-2334 SEQ ID NO:

5 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 424, 425, 426, 427, or 428. In certain such embodiments, an antisense compound targeted to nucleotides 2310-2334 of SEQ ID NO: 1 is selected from ISIS NOs: 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

10 In certain embodiments, a target region is nucleotides 2410-2434 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2410-2434 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 63 or 154. In certain such embodiments, an antisense compound targeted to nucleotides 2410-2434 of SEQ ID NO: 1 is selected from ISIS
15 NOs: 395188, 399910, 399818, or 399974.

In certain embodiments, a target region is nucleotides 2504-2528 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2504-2528 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 64 or 65. In certain such embodiments, an
20 antisense compound targeted to nucleotides 2504-2528 of SEQ ID NO: 1 is selected from ISIS NOs: 395189, 399911, 399819, or 399975.

In certain embodiments, a target region is nucleotides 2509-2528 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2509-2528 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 65. In certain such embodiments, an antisense compound targeted to nucleotides 2509-2528 of SEQ ID NO: 1 is selected from ISIS NOs: 399819 or 399975.

In certain embodiments, a target region is nucleotides 2582-2625 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2582-2625 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 66, 67 or 122. In certain such embodiments, an antisense compound targeted to nucleotides 2582-2625 of SEQ ID NO: 1 is selected from ISIS NOs: 399820, 399976, 395190, 399912, 395191, or 399913.

In certain embodiments, a target region is nucleotides 2606-2668 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2606-2668 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 67 or 153. In certain such embodiments, an
5 antisense compound targeted to nucleotides 2606-2668 of SEQ ID NO: 1 is selected from ISIS NOs: 395191, 399913, 395192, or 399914.

In certain embodiments, a target region is nucleotides 2828-2855 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2828-2855 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 69, 431, 432, 433, 434, 435, 436, 437 or 438. In certain such embodiments, an antisense compound targeted to nucleotides 2828-2855 of SEQ ID NO: 1 is selected from ISIS NOs: 405893, 405894, 405895, 405896, 395194, 399916, 405897, 405898, 405899, or 405900.

In certain embodiments, a target region is nucleotides 2832-2851 of SEQ ID NO: 1. In
15 certain embodiments, an antisense compound is targeted to nucleotides 2832-2851 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 69. In certain such embodiments, an antisense compound targeted to nucleotides 2832-2851 of SEQ ID NO: 1 is selected from ISIS NOs: 395194, or 399916.

In certain embodiments, a target region is nucleotides 2900-2927 of SEQ ID NO: 1. In
20 certain embodiments, an antisense compound is targeted to nucleotides 2900-2927 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 70, 71, 439, 440, 441, 442, 443 or 444. In certain such embodiments, an antisense compound targeted to nucleotides 2900-2927 of SEQ ID
25 NO: 1 is selected from ISIS NOs: 395195, 399917, 405901, 405902, 405903, 405904, 399821, 399977, 405905, or 405906.

In certain embodiments, a target region is nucleotides 2900-2929 of SEQ ID NO: 1. In
30 certain embodiments, an antisense compound is targeted to nucleotides 2900-2929 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 70, 71, 439, 440, 441, 442, 443, 444, 446 or 446. In certain such embodiments, an antisense compound targeted to nucleotides 2900-2929 of SEQ ID NO: 1 is selected from ISIS NOs: 395195, 399917, 405901, 405902, 405903, 405904, 399821, 399977, 405905, 405906, 405907, or 405908.

In certain embodiments, a target region is nucleotides 2902-2927 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2902-2927 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 71, 439, 440, 441, 442, 443 or 444. In certain
5 such embodiments, an antisense compound targeted to nucleotides 2902-2927 of SEQ ID NO: 1 is selected from ISIS NOs: 405901, 405902, 405903, 405904, 399821, 399977, 405905, or 405906.

In certain embodiments, a target region is nucleotides 2983-3007 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 2983-3007 SEQ ID NO:
10 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 72 or 73. In certain such embodiments, an antisense compound targeted to nucleotides 2983-3007 of SEQ ID NO: 1 is selected from ISIS NOs: 395196, 399918, 399822, or 399978.

In certain embodiments, a target region is nucleotides 2983-3013 of SEQ ID NO: 1. In
15 certain embodiments, an antisense compound is targeted to nucleotides 2983-3013 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 72, 73 or 135. In certain such embodiments, an antisense compound targeted to nucleotides 2983-3013 of SEQ ID NO: 1 is selected from ISIS NOs: 395196, 399918, 399822, 399978, 399823, or 399979.

In certain embodiments, a target region is nucleotides 3227-3252 of SEQ ID NO: 1. In
20 certain embodiments, an antisense compound is targeted to nucleotides 3227-3252 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 74 or 112. In certain such embodiments, an antisense compound targeted to nucleotides 3227-3252 of SEQ ID NO: 1 is selected from ISIS
25 NOs: 395197, 399919, 399824, or 399980.

In certain embodiments, a target region is nucleotides 3227-3456 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 3227-3456 SEQ ID NO:
1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 74, 75 or 112. In certain such embodiments, an
30 antisense compound targeted to nucleotides 3227-3456 of SEQ ID NO: 1 is selected from ISIS
NOs: 395197, 399919, 399824, 399980, 395198, or 399920.

In certain embodiments, a target region is nucleotides 3472-3496 of SEQ ID NO: 1. In
certain embodiments, an antisense compound is targeted to nucleotides 3472-3496 SEQ ID NO:

1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 76 or 77. In certain such embodiments, an antisense compound targeted to nucleotides 3472-3496 of SEQ ID NO: 1 is selected from ISIS NOs: 395199, 399921, 399825 or 399981.

5 In certain embodiments, a target region is nucleotides 3543-3569 of SEQ ID NO: 1. In certain embodiments, an antisense compound is targeted to nucleotides 3543-3569 SEQ ID NO: 1. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 78 or 99. In certain such embodiments, an antisense compound targeted to nucleotides 3543-3569 of SEQ ID NO: 1 is selected from ISIS
10 NOs: 395200, 399922, 399826 or 399982.

In certain embodiments, antisense compound target a PCSK9 nucleic acid having the sequence of nucleotides 25475000 to 25504000 of GENBANK® Accession No. NT_032977.8, first deposited with GENBANK® on February 26, 2006, and incorporated herein as SEQ ID NO:
15 2. In certain such embodiments, an antisense oligonucleotide is targeted to SEQ ID NO: 2. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 2 is at least 90% complementary to SEQ ID NO: 2. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 2 is at least 95% complementary to SEQ ID NO: 2. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 1 is 100% complementary to SEQ ID NO: 1. In certain such embodiments, an antisense
20 oligonucleotide comprises a nucleotide sequence selected from a nucleotide sequence set forth in Table 6.

Table 6: Antisense sequences targeted to NT_032977.8 (SEQ ID NO: 2)

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
4	2274	2293	GCGCGGAATCCTGGCTGGGA
5	2381	2400	GAGGAGACCTAGAGGCCGTG
159	2433	2452	GCCTGGAGCTGACGGTGCCC
160	2437	2456	GACCGCCTGGAGCTGACGGT
6	2439	2458	AGGACCGCCTGGAGCTGACG
162	2545	2564	AAGGCTAGCACCAGCTCCTC
163	2546	2565	CAAGGCTAGCACCAGCTCCT
164	2547	2566	GCAAGGCTAGCACCAGCTCC
165	2548	2567	CGCAAGGCTAGCACCAGCTC
7	2549	2568	ACGCAAGGCTAGCACCAGCT
166	2550	2569	AACGCAAGGCTAGCACCAGC
167	2551	2570	GAACGCAAGGCTAGCACCAG

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
168	2552	2571	GGAACGCAAGGCTAGCACCA
169	2553	2572	CGGAACGCAAGGCTAGCACC
8	2556	2575	CCTCGGAACGCAAGGCTAGC
170	2560	2579	TCCTCCTCGGAACGCAAGGC
171	2585	2604	GTGCTCGGGTGCTTCGGCCA
172	2605	2624	TGGAAGGTGGCTGTGGTTCC
9	2619	2638	CCTTGGCGCAGCGGTGGAAG
107	3056	3075	CCCACTATAATGGCAAGCCC
80	4306	4325	AACCCAGTTCTAATGCACCT
106	5140	5159	CCAGTCAGAGTAGAACAGAG
102	5590	5609	ATGTGCAGAGATCAATCACA
121	5599	5618	GGAGCCTACATGTGCAGAGA
94	5667	5686	AGCATGGCACCAGCATCTGC
176	6444	6463	CGTAGGTGCCAGGCAACCTC
177	6482	6501	TGACTGCGAGAGGTGGGTCT
178	6492	6511	CAGTGCGCTCTGACTGCGAG
179	6494	6513	GGCAGTGCGCTCTGACTGCG
180	6496	6515	CGGGCAGTGCGCTCTGACTG
10	6498	6517	GGCGGGCAGTGCGCTCTGAC
181	6499	6518	CGGCGGGCAGTGCGCTCTGA
182	6528	6547	ATCCCCGGCGGGCAGCCTGG
183	6532	6551	AGGTATCCCCGGCGGGCAGC
184	6534	6553	TGAGGTATCCCCGGCGGGCA
185	6535	6554	GTGAGGTATCCCCGGCGGGC
186	6536	6555	GGTGAGGTATCCCCGGCGGG
11	6537	6556	TGGTGAGGTATCCCCGGCGG
187	6538	6557	TTGGTGAGGTATCCCCGGCG
188	6539	6558	CTTGGTGAGGTATCCCCGGC
189	6540	6559	TCTTGGTGAGGTATCCCCGG
190	6541	6560	ATCTTGGTGAGGTATCCCCG
191	6542	6561	GATCTTGGTGAGGTATCCCC
12	6543	6562	GGATCTTGGTGAGGTATCCC
192	6544	6563	AGGATCTTGGTGAGGTATCC
193	6546	6565	GCAGGATCTTGGTGAGGTAT
194	6548	6567	ATGCAGGATCTTGGTGAGGT
195	6550	6569	ACATGCAGGATCTTGGTGAG
13	6552	6571	AGACATGCAGGATCTTGGTG
196	6554	6573	GAAGACATGCAGGATCTTGG
14	6557	6576	ATGGAAGACATGCAGGATCT
197	6565	6584	AGAAGGCCATGGAAGACATG
198	6575	6594	GAAGCCAGGAAGAAGGCCAT
15	6583	6602	TTCACCAGGAAGCCAGGAAG
199	6585	6604	TCTTCACCAGGAAGCCAGGA
16	6588	6607	TCATCTTCACCAGGAAGCCA
200	6590	6609	ACTCATCTTCACCAGGAAGC
201	6592	6611	CCACTCATCTTCACCAGGAA
202	6594	6613	CGCCACTCATCTTCACCAGG
203	6596	6615	GTCGCCACTCATCTTCACCA
204	6598	6617	AGGTCGCCACTCATCTTCAC
205	6600	6619	GCAGGTCGCCACTCATCTTC
206	6602	6621	CAGCAGGTCGCCACTCATCT
207	6604	6623	TCCAGCAGGTCGCCACTCAT
108	6652	6671	CCCAGCCCTATCAGGAAGTG

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
144	7099	7118	TGACATCCAGGAGGGAGGAG
91	7556	7575	AGACTGATGGAAGGCATTGA
131	7565	7584	GTGTTGAGCAGACTGATGGA
145	8836	8855	TGACATCTTGTCTGGGAGCC
90	8948	8967	AGACTAGGAGCCTGAGTTTT
125	9099	9118	GGCCTGCAGAAGCCAGAGAG
17	9130	9149	CCTCGATGTAGTCGACATGG
209	9149	9168	GCAAAGACAGAGGAGTCCTC
210	9207	9226	TTCATCCGCCCGGTACCGTG
211	9209	9228	TATTCATCCGCCCGGTACCG
18	9210	9229	GTATTCATCCGCCCGGTACC
212	9212	9231	TGGTATTCATCCGCCCGGTA
213	9214	9233	GCTGGTATTCATCCGCCCGG
214	9216	9235	GGGCTGGTATTCATCCGCC
148	10252	10271	TGGCAGCAACTCAGACATAT
127	10633	10652	GGTGGTAATTTGTCACAGCA
84	11308	11327	AAGGTCACACAGTTAAGAGT
79	11472	11491	AAATGCAGGGCTAAAATCAC
88	12715	12734	ACTGGATACATTGGCAGACA
111	12928	12947	CTAGAGGAACCACTAGATAT
85	13681	13700	ACAAATTCCCAGACTCAGCA
100	13746	13765	ATCTCAGGACAGGTGAGCAA
116	13760	13779	GAGTAGAGATTCTCATCTCA
129	13816	13835	GTGCCATCTGAACAGCACCT
117	13828	13847	GAGTCTTCTGAAGTGCCATC
81	13903	13922	AAGCAGGGCCTCAGGTGGAA
110	13926	13945	CCTGGAACCCCTGCAGCCAG
152	13977	13996	TTCAGGCAGGTTGCTGCTAG
83	13986	14005	AAGGAAGACTTCAGGCAGGT
140	13998	14017	TCAGCCAGGCCAAAGGAAGA
137	14112	14131	TAGGGAGAGCTCACAGATGC
136	14122	14141	TAGGAGAAAGTAGGGAGAGC
132	14179	14198	TAAAAGCTGCAAGAGACTCA
139	14267	14286	TCAGAGAAAACAGTCACCGA
92	14397	14416	AGAGACAGGAAGCTGCAGCT
142	14404	14423	TCATTTTAGAGACAGGAAGC
113	14441	14460	GAATAACAGTGATGTCTGGC
138	14494	14513	TCACAGCTCACCGAGTCTGC
98	14524	14543	AGTGTAATAATAAGCCCCTA
96	14601	14620	AGGACCCAAGTCATCCTGCT
124	14631	14650	GGCCATCAGCTGGCAATGCT
82	14670	14689	AAGGAAAGGGAGGCCTAGAG
133	14675	14694	TAGACAAGGAAAGGGAGGCC
103	14681	14700	ATTCATAGACAAGGAAAGG
155	14801	14820	CTTATAGTTAACACACAGAA
156	14809	14828	AAGTCAACCTTATAGTTAAC
215	14877	14896	ATACACCTCCACCAGGCTGC
216	14888	14907	GTGTCTAGGAGATACACCTC
19	14891	14910	CTGGTGTCTAGGAGATACAC
217	14893	14912	TGCTGGTGTCTAGGAGATAC
20	14896	14915	GTATGCTGGTGTCTAGGAGA
21	14916	14935	GATTTCCCGGTGGTCACTCT
218	14918	14937	TCGATTTCCCGGTGGTCACT

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
219	14919	14938	CTCGATTTCCTCCGGTGGTCAC
220	14920	14939	CCTCGATTTCCTCCGGTGGTCA
221	14921	14940	CCCTCGATTTCCTCCGGTGGTC
22	14922	14941	GCCCTCGATTTCCTCCGGTGGT
222	14923	14942	TGCCCTCGATTTCCTCCGGTGG
223	14924	14943	CTGCCCTCGATTTCCTCCGGTG
224	14925	14944	CCTGCCCTCGATTTCCTCCGGT
225	14926	14945	CCCTGCCCTCGATTTCCTCCGG
226	14930	14949	ATGACCCTGCCCTCGATTTC
227	14932	14951	CCATGACCCTGCCCTCGATT
228	14934	14953	GACCATGACCCTGCCCTCGA
23	14936	14955	GTGACCATGACCCTGCCCTC
229	14938	14957	CGGTGACCATGACCCTGCC
230	14940	14959	GTCGGTGACCATGACCCTGC
231	14942	14961	AAGTCGGTGACCATGACCCT
232	14944	14963	CGAAGTCGGTGACCATGACC
24	14946	14965	CTCGAAGTCGGTGACCATGA
233	14954	14973	GGCACATTCTCGAAGTCGGT
25	14979	14998	GTGGAAGCGGGTCCCGTCCT
235	15254	15273	GGTGGGTGCCATGACTGTCA
236	15257	15276	CCAGGTGGGTGCCATGACTG
237	15261	15280	CCTGCCAGGTGGGTGCCATG
26	15264	15283	ACCCCTGCCAGGTGGGTGCC
238	15266	15285	CCACCCCTGCCAGGTGGGTG
27	15269	15288	TGACCACCCCTGCCAGGTGG
239	15271	15290	GCTGACCACCCCTGCCAGGT
240	15279	15298	TCCCGGCCGCTGACCACCC
241	15283	15302	GGCATCCCGGCCGCTGACCA
242	15286	15305	GCCGGCATCCCGGCCGCTGA
243	15291	15310	GCCACGCCGGCATCCCGGCC
244	15292	15311	GGCCACGCCGGCATCCCGGC
245	15293	15312	TGGCCACGCCGGCATCCCGG
246	15294	15313	TTGGCCACGCCGGCATCCCG
247	15295	15314	CTTGGCCACGCCGGCATCCC
248	15296	15315	CCTTGGCCACGCCGGCATCC
249	15297	15316	CCCTTGGCCACGCCGGCATC
28	15298	15317	ACCCTTGGCCACGCCGGCAT
447	15298	15317	ACCCTTGGTCACGCCGGCAT
250	15299	15318	CACCCTTGGCCACGCCGGCA
251	15300	15319	GCACCCTTGGCCACGCCGGC
252	15301	15320	GGCACCCTTGGCCACGCCGG
253	15302	15321	TGGCACCCTTGGCCACGCCG
254	15303	15322	CTGGCACCCTTGGCCACGCC
255	15304	15323	GCTGGCACCCTTGGCCACGC
256	15309	15328	CGCATGCTGGCACCCTTGGC
257	15330	15349	CAGTTGAGCACGCGCAGGCT
258	15332	15351	GGCAGTTGAGCACGCGCAGG
29	15334	15353	TTGGCAGTTGAGCACGCGCA
259	15336	15355	CCTTGGCAGTTGAGCACGCG
30	15339	15358	TCCCTTGGCAGTTGAGCAC
260	15341	15360	CCTTCCCTTGGCAGTTGAGC
261	15345	15364	GTGCCCTTCCCTTGGCAGTT
262	15347	15366	CCGTGCCCTTCCCTTGGCAG

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
263	15358	15377	GGTGCCGCTAACCGTGCCCT
86	15471	15490	ACAGCATTCTTGGTTAGGAG
97	16134	16153	AGTCAAGCTGCTGCCAGAG
120	16668	16687	GCTAGTTATTAAGCACCTGC
150	17267	17286	TGTGAGCTCTGGCCAGTGG
115	18377	18396	GAGTAAGGCAGGTTACTCTC
134	18408	18427	TAGATGTGACTAACATTTAA
157	18561	18580	AGGAACAAAGCCAAGGTCAC
266	18591	18610	TGGCTTTTCCGAATAAACTC
32	18593	18612	GCTGGCTTTTCCGAATAAAC
267	18595	18614	CAGCTGGCTTTTCCGAATAA
268	18597	18616	ACCAGCTGGCTTTTCCGAAT
269	18599	18618	GGACCAGCTGGCTTTTCCGA
270	18603	18622	GGCTGGACCAGCTGGCTTTT
271	18614	18633	GTGGCCCCACAGGCTGGACC
272	18627	18646	AGCAGCACCACCAGTGGCCC
273	18649	18668	GCTGTACCCACCCGCCAGGG
274	18695	18714	CGACCCAGCCCTCGCCAGG
33	18705	18724	GTGACCAGCACGACCCAGC
275	18707	18726	CGGTGACCAGCACGACCCCA
276	18709	18728	AGCGGTGACCAGCACGACCC
277	18711	18730	GCAGCGGTGACCAGCACGAC
278	18713	18732	CGGCAGCGGTGACCAGCACG
279	18714	18733	CCGGCAGCGGTGACCAGCAC
280	18717	18736	TTGCCGGCAGCGGTGACCAG
281	18719	18738	AGTTGCCGGCAGCGGTGACC
282	18721	18740	GAAGTTGCCGGCAGCGGTGA
283	18723	18742	CGGAAGTTGCCGGCAGCGGT
284	18725	18744	CCCGGAAGTTGCCGGCAGCG
285	18727	18746	GTCCCGGAAGTTGCCGGCAG
105	19203	19222	CACATTAGCCTTGCTCAAGT
151	19913	19932	TGTGATGACCTGGAAAGGTG
288	19931	19950	GGCATTGGTGGCCCCAACTG
149	19933	19952	TGGGCATTGGTGGCCCCAAC
289	19941	19960	GCTGGTCTTGGGCATTGGTG
290	19954	19973	CCCAGGGTCACCGGCTGGTC
291	19956	19975	TCCCAGGGTCACCGGCTGG
292	19958	19977	AGTCCCAGGGTCACCGGCT
293	19960	19979	AAAGTCCCAGGGTCACCGG
34	19962	19981	CCAAAGTCCCAGGGTCACC
294	19964	19983	CCCCAAAGTCCCAGGGTCA
128	19966	19985	GTCCCCAAAGTCCCAGGGT
295	19969	19988	TTGGTCCCCAAAGTCCCAG
35	19971	19990	AGTTGGTCCCCAAAGTCCC
296	19973	19992	AAAGTTGGTCCCCAAAGTCC
36	19976	19995	GCCAAAGTTGGTCCCCAAAG
297	19978	19997	CGGCCAAAGTTGGTCCCCAA
298	19980	19999	AGCGGCCAAAGTTGGTCCCC
299	19982	20001	ACAGCGGCCAAAGTTGGTCC
300	19984	20003	ACACAGCGGCCAAAGTTGGT
301	19986	20005	CCACACAGCGGCCAAAGTTG
37	19988	20007	GTCCACACAGCGGCCAAAGT
302	19990	20009	AGGTCCACACAGCGGCCAAA

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
303	19992	20011	AGAGGTCCACACAGCGGCCA
304	19994	20013	AAAGAGGTCCACACAGCGGC
38	19997	20016	GGCAAAGAGGTCCACACAGC
305	20016	20035	CAATGATGTCCTCCCCTGGG
306	20023	20042	GAGGCACCAATGATGTCCTC
39	20025	20044	TGGAGGCACCAATGATGTCC
307	20027	20046	GCTGGAGGCACCAATGATGT
308	20029	20048	TCGCTGGAGGCACCAATGAT
309	20031	20050	AGTCGCTGGAGGCACCAATG
310	20033	20052	GCAGTCGCTGGAGGCACCAA
40	20036	20055	GCTGCAGTCGCTGGAGGCAC
311	20038	20057	GTGCTGCAGTCGCTGGAGGC
312	20040	20059	AGGTGCTGCAGTCGCTGGAG
313	20042	20061	GCAGGTGCTGCAGTCGCTGG
314	20043	20062	AGCAGGTGCTGCAGTCGCTG
315	20045	20064	AAAGCAGGTGCTGCAGTCGC
41	20047	20066	ACAAAGCAGGTGCTGCAGTC
316	20049	20068	ACACAAAGCAGGTGCTGCAG
317	20051	20070	TGACACAAAGCAGGTGCTGC
318	20061	20080	TCCACTCTGTGACACAAAG
158	20100	20119	GTGGTGACTIONACCAGCCACG
109	20188	20207	CCCCTGCACAGAGCCTGGCA
141	20624	20643	TCATGGCTGCAATGCCTGGT
320	20629	20648	CAGCATCATGGCTGCAATGC
321	20631	20650	GACAGCATCATGGCTGCAAT
322	20633	20652	CAGACAGCATCATGGCTGCA
43	20635	20654	GGCAGACAGCATCATGGCTG
323	20637	20656	TCGGCAGACAGCATCATGGC
324	20639	20658	GCTCGGCAGACAGCATCATG
325	20641	20660	CGGCTCGGCAGACAGCATCA
326	20643	20662	TCCGGCTCGGCAGACAGCAT
327	20657	20676	CGGCCAGGGTGAGCTCCGGC
328	20670	20689	CTCTGCCTCAACTCGGCCAG
329	20672	20691	GTCTCTGCCTCAACTCGGCC
330	20674	20693	CAGTCTCTGCCTCAACTCGG
331	20676	20695	ATCAGTCTCTGCCTCAACTC
332	20678	20697	GGATCAGTCTCTGCCTCAAC
333	20680	20699	GTGGATCAGTCTCTGCCTCA
334	20682	20701	AAGTGGATCAGTCTCTGCCT
44	20683	20702	GAAGTGGATCAGTCTCTGCC
335	20685	20704	GAGAAGTGGATCAGTCTCTG
336	20687	20706	CAGAGAAGTGGATCAGTCTC
337	20689	20708	GGCAGAGAAGTGGATCAGTC
45	20691	20710	TTGGCAGAGAAGTGGATCAG
338	20693	20712	CTTTGGCAGAGAAGTGGATC
46	20696	20715	CATCTTTGGCAGAGAAGTGG
339	20698	20717	GACATCTTTGGCAGAGAAGT
340	20700	20719	ATGACATCTTTGGCAGAGAA
47	20702	20721	TGATGACATCTTTGGCAGAG
341	20704	20723	ATTGATGACATCTTTGGCAG
342	20706	20725	TCATTGATGACATCTTTGGC
48	20709	20728	GCCTCATTGATGACATCTTT
343	20711	20730	AGGCCTCATTGATGACATCT

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
344	20713	20732	CCAGGCCTCATTGATGACAT
345	20715	20734	AACCAGGCCTCATTGATGAC
346	20717	20736	GGAACCAGGCCTCATTGATG
347	20718	20737	GGGAACCAGGCCTCATTGAT
348	20719	20738	AGGGAACCAGGCCTCATTGA
349	20720	20739	CAGGGAACCAGGCCTCATTG
49	20721	20740	TCAGGGAACCAGGCCTCATT
350	20722	20741	CTCAGGGAACCAGGCCTCAT
351	20723	20742	CCTCAGGGAACCAGGCCTCA
352	20724	20743	TCCTCAGGGAACCAGGCCTC
353	20725	20744	GTCCTCAGGGAACCAGGCCT
50	20726	20745	GGTCCTCAGGGAACCAGGCC
354	20727	20746	TGGTCCTCAGGGAACCAGGC
355	20728	20747	CTGGTCCTCAGGGAACCAGG
356	20729	20748	GCTGGTCCTCAGGGAACCAG
357	20730	20749	CGCTGGTCCTCAGGGAACCA
87	20733	20752	ACCCGCTGGTCCTCAGGGAA
358	20735	20754	GTACCCGCTGGTCCTCAGGG
359	20737	20756	CAGTACCCGCTGGTCCTCAG
51	20740	20759	GGTCAGTACCCGCTGGTCCT
119	20762	20781	GCAGGGCGGCCACCAGGTTG
360	20785	20804	ACCTGCCCATGGGTGCTGG
93	20995	21014	AGAGAGGAGGGCTTAAAGAA
95	21082	21101	AGCTGCCAACCTGCAAAAAG
361	21088	21107	CAAAACAGCTGCCAACCTGC
53	21091	21110	CTGCAAAACAGCTGCCAAC
362	21093	21112	TCCTGCAAAACAGCTGCCAA
363	21095	21114	AGTCCTGCAAAACAGCTGCC
364	21106	21125	GCTGACCATACAGTCCTGCA
365	21118	21137	GGCCCCGAGTGTGCTGACCA
54	21121	21140	GTAGGCCCCGAGTGTGCTGA
366	21123	21142	GTGTAGGCCCCGAGTGTGCT
367	21125	21144	CCGTGTAGGCCCCGAGTGTG
368	21127	21146	ATCCGTGTAGGCCCCGAGTG
369	21129	21148	CCATCCGTGTAGGCCCCGAG
370	21131	21150	GGCCATCCGTGTAGGCCCCG
371	21133	21152	GTGGCCATCCGTGTAGGCC
372	21181	21200	CTGGAGCAGCTCAGCAGCTC
460	21181	21194	CAGCTCAGCAGCTC
373	21183	21202	AACTGGAGCAGCTCAGCAGC
55	21186	21205	AGAAACTGGAGCAGCTCAGC
374	21188	21207	GGAGAAACTGGAGCAGCTCA
375	21190	21209	CTGGAGAAACTGGAGCAGCT
56	21192	21211	TCCTGGAGAAACTGGAGCAG
143	21481	21500	TGAAAATCCATCCAGCACTG
89	21589	21608	AGAACCATGGAGCACCTGAG
448	21692	21711	CTGCCCTTCCACCAAATGC
449	21693	21712	ACTGCCCTTCCACCAAATG
450	21694	21713	CACTGCCCTTCCACCAAAT
451	21695	21714	GCACTGCCCTTCCACCAA
123	21696	21715	GGCACTGCCCTTCCACCAA
452	21697	21716	GGGCACTGCCCTTCCACCAA
453	21698	21717	TGGGCACTGCCCTTCCACCA

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
454	21699	21718	CTGGGCACTGCCCTTCCACC
455	21700	21719	GCTGGGCACTGCCCTTCCAC
57	22096	22115	CGTTGTGGGCCCGGCAGACC
376	22133	22152	CACCTGGCAATGGCGTAGAC
377	22134	22153	GCACCTGGCAATGGCGTAGA
378	22135	22154	AGCACCTGGCAATGGCGTAG
379	22136	22155	CAGCACCTGGCAATGGCGTA
380	22137	22156	GCAGCACCTGGCAATGGCGT
381	22138	22157	GGCAGCACCTGGCAATGGCG
382	22139	22158	AGGCAGCACCTGGCAATGGC
383	22140	22159	CAGGCAGCACCTGGCAATGG
384	22141	22160	GCAGGCAGCACCTGGCAATG
58	22142	22161	AGCAGGCAGCACCTGGCAAT
385	22143	22162	TAGCAGGCAGCACCTGGCAA
386	22144	22163	GTAGCAGGCAGCACCTGGCA
387	22189	22208	TGGCCTCAGCTGGTGGAGCT
388	22199	22218	GTCCCCATGCTGGCCTCAGC
389	22200	22219	GGTCCCCATGCTGGCCTCAG
390	22201	22220	GGGTCCCCATGCTGGCCTCA
391	22202	22221	CGGGTCCCCATGCTGGCCTC
392	22203	22222	ACGGGTCCCCATGCTGGCCT
59	22204	22223	CACGGGTCCCCATGCTGGCC
393	22205	22224	ACACGGGTCCCCATGCTGGC
394	22206	22225	GACACGGGTCCCCATGCTGG
395	22207	22226	GGACACGGGTCCCCATGCTG
396	22208	22227	TGGACACGGGTCCCCATGCT
397	22209	22228	GTGGACACGGGTCCCCATGC
398	22210	22229	AGTGGACACGGGTCCCCATG
399	22211	22230	CAGTGGACACGGGTCCCCAT
400	22212	22231	GCAGTGGACACGGGTCCCCA
401	22213	22232	GGCAGTGGACACGGGTCCCC
402	22214	22233	TGGCAGTGGACACGGGTCCC
403	22215	22234	GTGGCAGTGGACACGGGTCC
404	22216	22235	GGTGGCAGTGGACACGGGTCC
405	22217	22236	TGGTGGCAGTGGACACGGGT
406	22220	22239	TGTTGGTGGCAGTGGACACG
126	22292	22311	GGTGCATAAGGAGAAAGAGA
408	23985	24004	GTGCCAAGGTCCTCCACCTC
409	24005	24024	TCAGCACAGGCGGCTTGTGG
410	24035	24054	CCACGCACTGGTTGGGCTGA
60	24095	24114	CTTTGCATTCCAGACCTGGG
411	24096	24115	ACTTTGCATTCCAGACCTGG
412	24097	24116	GACTTTGCATTCCAGACCTG
413	24098	24117	TGACTTTGCATTCCAGACCT
414	24099	24118	TTGACTTTGCATTCCAGACC
61	24100	24119	CTTGACTTTGCATTCCAGAC
415	24102	24121	TCCTTGACTTTGCATTCCAG
416	24115	24134	CGGGATTCCATGCTCCTTGA
147	24858	24877	TGAGTTCATTTAAGAGTGGA
118	24907	24926	GCACCATCCAGACCAGAATC
114	25413	25432	GAGAGGTTCCAGATCCAGGCC
418	25994	26013	GGAGGGCACTGCAGCCAGTC
419	26112	26131	CAGATGGCAACGGCTGTCAC

SEQ ID NO	5' Start Site to SEQ ID NO: 2	3' Start Site to SEQ ID NO: 2	Sequence (5' to 3')
420	26113	26132	GCAGATGGCAACGGCTGTCA
421	26114	26133	AGCAGATGGCAACGGCTGTC
422	26115	26134	CAGCAGATGGCAACGGCTGT
423	26116	26135	GCAGCAGATGGCAACGGCTG
62	26117	26136	GGCAGCAGATGGCAACGGCT
424	26118	26137	CGGCAGCAGATGGCAACGGC
425	26119	26138	CCGGCAGCAGATGGCAACGG
426	26120	26139	TCCGGCAGCAGATGGCAACG
427	26121	26140	CTCCGGCAGCAGATGGCAAC
428	26122	26141	GCTCCGGCAGCAGATGGCAA
429	26132	26151	CCAGGTGCCGGCTCCGGCAG
430	26142	26161	GAGGCCTGCGCCAGGTGCCG
154	26217	26236	TTTTAAAGCTCAGCCCCAGC
63	26222	26241	AACCATTTTAAAGCTCAGCC
64	26311	26330	TCAAGGGCCAGGCCAGCAGC
65	26316	26335	CCCACTCAAGGGCCAGGCCA
122	26389	26408	GGAGGGAGCTTCCTGGCACC
66	26404	26423	ATGCCCCACAGTGAGGGAGG
67	26413	26432	AATGGTGAAATGCCCCACAG
153	26456	26475	TTGGGAGCAGCTGGCAGCAC
68	26557	26576	CATGGGAAGAATCCTGCCTC
431	26635	26654	ATGAGGGCCATCAGCACCTT
432	26636	26655	GATGAGGGCCATCAGCACCT
433	26637	26656	AGATGAGGGCCATCAGCACC
434	26638	26657	GAGATGAGGGCCATCAGCAC
69	26639	26658	GGAGATGAGGGCCATCAGCA
435	26640	26659	TGGAGATGAGGGCCATCAGC
436	26641	26660	CTGGAGATGAGGGCCATCAG
437	26642	26661	GCTGGAGATGAGGGCCATCA
438	26643	26662	AGCTGGAGATGAGGGCCATC
461	26684	26697	TTAATCAGGGAGCC
70	26707	26726	TAGATGCCATCCAGAAAGCT
439	26709	26728	GCTAGATGCCATCCAGAAAG
440	26710	26729	GGCTAGATGCCATCCAGAAA
441	26711	26730	TGGCTAGATGCCATCCAGAA
442	26712	26731	CTGGCTAGATGCCATCCAGA
71	26713	26732	TCTGGCTAGATGCCATCCAG
443	26714	26733	CTCTGGCTAGATGCCATCCA
444	26715	26734	CCTCTGGCTAGATGCCATCC
445	26716	26735	GCCTCTGGCTAGATGCCATC
446	26717	26736	AGCCTCTGGCTAGATGCCAT
72	26790	26809	GGCATAGAGCAGAGTAAAGG
73	26795	26814	AGCCTGGCATAGAGCAGAGT
135	26801	26820	TAGCACAGCCTGGCATAGAG
112	27034	27053	GAAGAGGCTTGGCTTCAGAG
74	27040	27059	AAGTAAGAAGAGGCTTGGCT
75	27244	27263	GCTCAAGGAGGGACAGTTGT
76	27279	27298	AAAGATAAATGTCTGCTTGC
77	27284	27303	ACCCAAAAGATAAATGTCTG
78	27350	27369	TCTTCAAGTTACAAAAGCAA
99	27357	27376	ATAAATATCTTCAAGTTACA

In certain embodiments, gapmer antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gapmer antisense compounds are targeted to SEQ ID NO: 2. In certain such embodiments, the nucleotide sequences illustrated in Table 6 have a 5-10-5 gapmer motif. Table 7 illustrates gapmer antisense compounds targeted to SEQ ID NO: 2, having a 5-10-5 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

Table 7: Gapmer antisense compounds having a 5-10-5 motif targeted to SEQ ID NO: 2

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Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
395149	5-10-5	4	2274	2293	0	GCGCGGAATCCTGGCTGGGA
395150	5-10-5	5	2381	2400	0	GAGGAGACCTAGAGGCCGTG
395151	5-10-5	6	2439	2458	0	AGGACCGCCTGGAGCTGACG
395152	5-10-5	7	2549	2568	0	ACGCAAGGCTAGCACCAGCT
399793	5-10-5	8	2556	2575	0	CCTCGGAACGCAAGGCTAGC
395153	5-10-5	9	2619	2638	0	CCTTGGCGCAGCGGTGGAAG
399837	5-10-5	107	3056	3075	0	CCCACTATAATGGCAAGCCC
399838	5-10-5	80	4306	4325	0	AACCCAGTTCTAATGCACCT
399839	5-10-5	106	5140	5159	0	CCAGTCAGAGTAGAACAGAG
395221	5-10-5	102	5590	5609	0	ATGTGCAGAGATCAATCACA
399840	5-10-5	121	5599	5618	0	GGAGCCTACATGTGCAGAGA
399841	5-10-5	94	5667	5686	0	AGCATGGCACCAGCATCTGC
395154	5-10-5	10	6498	6517	0	GGCGGGCAGTGCCTCTGAC
395155	5-10-5	11	6537	6556	0	TGGTGAGGTATCCCCGGCGG
399794	5-10-5	12	6543	6562	0	GGATCTTGGTGAGGTATCCC
399795	5-10-5	13	6552	6571	0	AGACATGCAGGATCTTGGTG
395156	5-10-5	14	6557	6576	0	ATGGAAGACATGCAGGATCT
395157	5-10-5	15	6583	6602	0	TTCACCAGGAAGCCAGGAAG
399796	5-10-5	16	6588	6607	0	TCATCTTCACCAGGAAGCCA
399842	5-10-5	108	6652	6671	0	CCCAGCCCTATCAGGAAGTG
399843	5-10-5	144	7099	7118	0	TGACATCCAGGAGGGAGGAG
399844	5-10-5	91	7556	7575	0	AGACTGATGGAAGGCATTGA
399845	5-10-5	131	7565	7584	0	GTGTTGAGCAGACTGATGGA
399846	5-10-5	145	8836	8855	0	TGACATCTTGTCTGGGAGCC
399847	5-10-5	90	8948	8967	0	AGACTAGGAGCCTGAGTTT
399848	5-10-5	125	9099	9118	0	GGCCTGCAGAAGCCAGAGAG
395158	5-10-5	17	9130	9149	0	CCTCGATGTAGTCGACATGG
395159	5-10-5	18	9210	9229	0	GTATTCATCCGCCCGGTACC
399849	5-10-5	148	10252	10271	0	TGGCAGCAACTCAGACATAT
395222	5-10-5	127	10633	10652	0	GGTGGTAATTTGTCACAGCA
395223	5-10-5	84	11308	11327	0	AAGGTACACAGTTAAGAGT
399850	5-10-5	79	11472	11491	0	AAATGCAGGGCTAAAATCAC
399851	5-10-5	88	12715	12734	0	ACTGGATACATTGGCAGACA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399852	5-10-5	111	12928	12947	0	CTAGAGGAACCACTAGATAT
395201	5-10-5	85	13681	13700	0	ACAAATTCACAGACTCAGCA
399827	5-10-5	100	13746	13765	0	ATCTCAGGACAGGTGAGCAA
399828	5-10-5	116	13760	13779	0	GAGTAGAGATTCTCATCTCA
395202	5-10-5	129	13816	13835	0	GTGCCATCTGAACAGCACCT
399829	5-10-5	117	13828	13847	0	GAGTCTTCTGAAGTGCCATC
399830	5-10-5	81	13903	13922	0	AAGCAGGGCCTCAGGTGGAA
395203	5-10-5	110	13926	13945	0	CCTGGAACCCCTGCAGCCAG
395204	5-10-5	152	13977	13996	0	TTCAGGCAGGTTGCTGCTAG
399831	5-10-5	83	13986	14005	0	AAGGAAGACTTCAGGCAGGT
395205	5-10-5	140	13998	14017	0	TCAGCCAGGCCAAAGGAAGA
399832	5-10-5	137	14112	14131	0	TAGGGAGAGCTCACAGATGC
395206	5-10-5	136	14122	14141	0	TAGGAGAAAGTAGGGAGAGC
395207	5-10-5	132	14179	14198	0	TAAAAGCTGCAAGAGACTCA
395208	5-10-5	139	14267	14286	0	TCAGAGAAAACAGTCACCGA
399833	5-10-5	92	14397	14416	0	AGAGACAGGAAGCTGCAGCT
395209	5-10-5	142	14404	14423	0	TCATTTTAGAGACAGGAAGC
395210	5-10-5	113	14441	14460	0	GAATAACAGTGATGTCTGGC
395211	5-10-5	138	14494	14513	0	TCACAGCTCACCGAGTCTGC
395212	5-10-5	98	14524	14543	0	AGTGTAATAATAAGCCCCTA
395213	5-10-5	96	14601	14620	0	AGGACCCAAGTCATCCTGCT
395214	5-10-5	124	14631	14650	0	GGCCATCAGCTGGCAATGCT
399834	5-10-5	82	14670	14689	0	AAGGAAAGGGAGGCCTAGAG
395215	5-10-5	133	14675	14694	0	TAGACAAGGAAAGGGAGGCC
395216	5-10-5	103	14681	14700	0	ATTCATAGACAAGGAAAGG
395217	5-10-5	155	14801	14820	0	CTTATAGTTAACACACAGAA
399835	5-10-5	156	14809	14828	0	AAGTCAACCTTATAGTTAAC
395160	5-10-5	19	14891	14910	0	CTGGTGTCTAGGAGATACAC
399797	5-10-5	20	14896	14915	0	GTATGCTGGTGTCTAGGAGA
395161	5-10-5	21	14916	14935	0	GATTTCCCGGTGGTCACTCT
399798	5-10-5	22	14922	14941	0	GCCCTCGATTTCCCGGTGGT
399799	5-10-5	23	14936	14955	0	GTGACCATGACCCTGCCCTC
395162	5-10-5	24	14946	14965	0	CTCGAAGTCGGTGACCATGA
395163	5-10-5	25	14979	14998	0	GTGGAAGCGGGTCCCGTCCT
395164	5-10-5	26	15264	15283	0	ACCCCTGCCAGGTGGGTGCC
399800	5-10-5	27	15269	15288	0	TGACCACCCCTGCCAGGTGG
395165	5-10-5	28	15298	15317	0	ACCCTTGCCACGCCGGCAT
395166	5-10-5	29	15334	15353	0	TTGGCAGTTGAGCACGCGCA
399801	5-10-5	30	15339	15358	0	TTCCCTTGGCAGTTGAGCAC
399853	5-10-5	86	15471	15490	0	ACAGCATTCTTGGTTAGGAG
399854	5-10-5	97	16134	16153	0	AGTCAAGCTGCTGCCCAGAG
399855	5-10-5	120	16668	16687	0	GCTAGTTATTAAGCACCTGC
399856	5-10-5	150	17267	17286	0	TGTGAGCTCTGGCCAGTGG
399857	5-10-5	115	18377	18396	0	GAGTAAGGCAGGTTACTCTC
399858	5-10-5	134	18408	18427	0	TAGATGTGACTAACATTTAA
395224	5-10-5	157	18561	18580	0	AGGAACAAAGCCAAGGTCAC
395168	5-10-5	32	18593	18612	0	GCTGGCTTTTCCGAATAAAC
395169	5-10-5	33	18705	18724	0	GTGACCAGCACGACCCAGC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399859	5-10-5	105	19203	19222	0	CACATTAGCCTTGCTCAAGT
399860	5-10-5	151	19913	19932	0	TGTGATGACCTGGAAAGGTG
395170	5-10-5	149	19933	19952	0	TGGGCATTGGTGGCCCAAC
395171	5-10-5	34	19962	19981	0	CCAAAGTCCCAGGGTCACC
395172	5-10-5	128	19966	19985	0	GTCCCAAAGTCCCAGGGT
399802	5-10-5	35	19971	19990	0	AGTTGGTCCCCAAAGTCCC
395173	5-10-5	36	19976	19995	0	GCCAAAGTTGGTCCCCAAAG
399803	5-10-5	37	19988	20007	0	GTCCACACAGCGGCCAAAGT
395174	5-10-5	38	19997	20016	0	GGCAAAGAGGTCCACACAGC
395175	5-10-5	39	20025	20044	0	TGGAGGCACCAATGATGTCC
399804	5-10-5	40	20036	20055	0	GCTGCAGTCGCTGGAGGCAC
399805	5-10-5	41	20047	20066	0	ACAAAGCAGGTGCTGCAGTC
399861	5-10-5	158	20100	20119	0	GTGGTGACTTACCAGCCACG
399862	5-10-5	109	20188	20207	0	CCCCTGCACAGAGCCTGGCA
399863	5-10-5	141	20624	20643	0	TCATGGCTGCAATGCCTGGT
399807	5-10-5	43	20635	20654	0	GGCAGACAGCATCATGGCTG
399808	5-10-5	44	20683	20702	0	GAAGTGGATCAGTCTCTGCC
395177	5-10-5	45	20691	20710	0	TTGGCAGAGAAGTGGATCAG
399809	5-10-5	46	20696	20715	0	CATCTTTGGCAGAGAAGTGG
399810	5-10-5	47	20702	20721	0	TGATGACATCTTTGGCAGAG
399811	5-10-5	48	20709	20728	0	GCCTCATTGATGACATCTTT
399812	5-10-5	49	20721	20740	0	TCAGGGAACCAGGCCTCATT
395178	5-10-5	50	20726	20745	0	GGTCCTCAGGGAACCAGGCC
395179	5-10-5	87	20733	20752	0	ACCCGCTGGTCCTCAGGGAA
399813	5-10-5	51	20740	20759	0	GGTCAGTACCCGCTGGTCCT
395180	5-10-5	119	20762	20781	0	GCAGGGCGGCCACCAGGTTG
399864	5-10-5	93	20995	21014	0	AGAGAGGAGGGCTTAAAGAA
399865	5-10-5	95	21082	21101	0	AGCTGCCAACCTGCAAAAAG
399814	5-10-5	53	21091	21110	0	CTGCAAAACAGCTGCCAACC
395182	5-10-5	54	21121	21140	0	GTAGGCCCCGAGTGTGCTGA
399815	5-10-5	55	21186	21205	0	AGAAACTGGAGCAGCTCAGC
399816	5-10-5	56	21192	21211	0	TCCTGGAGAACTGGAGCAG
399866	5-10-5	143	21481	21500	0	TGAAAATCCATCCAGCACTG
399867	5-10-5	89	21589	21608	0	AGAACCATGGAGCACCTGAG
399868	5-10-5	123	21696	21715	0	GGCACTGCCCTTCCACCAA
395183	5-10-5	57	22096	22115	0	CGTTGTGGGCCCGGCAGACC
395184	5-10-5	58	22142	22161	0	AGCAGGCAGCACCTGGCAAT
395185	5-10-5	59	22204	22223	0	CACGGGTCCCCATGCTGGCC
395225	5-10-5	126	22292	22311	0	GGTGCATAAGGAGAAAGAGA
395186	5-10-5	60	24095	24114	0	CTTTGCATTCCAGACCTGGG
399817	5-10-5	61	24100	24119	0	CTTGACTTTGCATTCCAGAC
395226	5-10-5	147	24858	24877	0	TGAGTTCATTTAAGAGTGGA
399869	5-10-5	118	24907	24926	0	GCACCATCCAGACCAGAATC
399870	5-10-5	114	25413	25432	0	GAGAGGTTCCAGATCCAGGCC
395187	5-10-5	62	26117	26136	0	GGCAGCAGATGGCAACGGCT
395188	5-10-5	154	26217	26236	0	TTTTAAAGCTCAGCCCCAGC
399818	5-10-5	63	26222	26241	0	AACCATTTTAAAGCTCAGCC
395189	5-10-5	64	26311	26330	0	TCAAGGGCCAGGCCAGCAGC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399819	5-10-5	65	26316	26335	0	CCCACTCAAGGGCCAGGCCA
399820	5-10-5	122	26389	26408	0	GGAGGGAGCTTCCTGGCACC
395190	5-10-5	66	26404	26423	0	ATGCCCCACAGTGAGGGAGG
395191	5-10-5	67	26413	26432	0	AATGGTGAAATGCCCCACAG
395192	5-10-5	153	26456	26475	0	TTGGGAGCAGCTGGCAGCAC
395193	5-10-5	68	26557	26576	0	CATGGGAAGAATCCTGCCTC
395194	5-10-5	69	26639	26658	0	GGAGATGAGGGCCATCAGCA
395195	5-10-5	70	26707	26726	0	TAGATGCCATCCAGAAAGCT
399821	5-10-5	71	26713	26732	0	TCTGGCTAGATGCCATCCAG
395196	5-10-5	72	26790	26809	0	GGCATAGAGCAGAGTAAAGG
399822	5-10-5	73	26795	26814	0	AGCCTGGCATAGAGCAGAGT
399823	5-10-5	135	26801	26820	0	TAGCACAGCCTGGCATAGAG
395197	5-10-5	112	27034	27053	0	GAAGAGGCTTGGCTTCAGAG
399824	5-10-5	74	27040	27059	0	AAGTAAGAAGAGGCTTGGCT
395198	5-10-5	75	27244	27263	0	GCTCAAGGAGGGACAGTTGT
395199	5-10-5	76	27279	27298	0	AAAGATAAATGTCTGCTTGC
399825	5-10-5	77	27284	27303	0	ACCCAAAAGATAAATGTCTG
395200	5-10-5	78	27350	27369	0	TCTTCAAGTTACAAAAGCAA
399826	5-10-5	99	27357	27376	0	ATAAATATCTTCAAGTTACA
405861	5-10-5	162	2545	2564	0	AAGGCTAGCACCAGCTCCTC
405862	5-10-5	163	2546	2565	0	CAAGGCTAGCACCAGCTCCT
405863	5-10-5	164	2547	2566	0	GCAAGGCTAGCACCAGCTCC
405864	5-10-5	165	2548	2567	0	CGCAAGGCTAGCACCAGCTC
405865	5-10-5	166	2550	2569	0	AACGCAAGGCTAGCACCAGC
405866	5-10-5	167	2551	2570	0	GAACGCAAGGCTAGCACCAG
405867	5-10-5	168	2552	2571	0	GGAACGCAAGGCTAGCACCA
405868	5-10-5	169	2553	2572	0	CGGAACGCAAGGCTAGCACC
405869	5-10-5	218	14918	14937	0	TCGATTTCCCGGTGGTCACT
405870	5-10-5	219	14919	14938	0	CTCGATTTCCCGGTGGTCAC
405871	5-10-5	220	14920	14939	0	CCTCGATTTCCCGGTGGTCA
405872	5-10-5	221	14921	14940	0	CCCTCGATTTCCCGGTGGTC
405873	5-10-5	222	14923	14942	0	TGCCCTCGATTTCCCGGTGG
405874	5-10-5	223	14924	14943	0	CTGCCCTCGATTTCCCGGTG
405875	5-10-5	224	14925	14944	0	CCTGCCCTCGATTTCCCGGT
405876	5-10-5	225	14926	14945	0	CCCTGCCCTCGATTTCCCGG
405877	5-10-5	246	15294	15313	0	TTGGCCACGCCGGCATCCCG
405878	5-10-5	247	15295	15314	0	CTTGGCCACGCCGGCATCCC
405879	5-10-5	248	15296	15315	0	CCTTGGCCACGCCGGCATCC
405880	5-10-5	249	15297	15316	0	CCCTTGGCCACGCCGGCATC
405881	5-10-5	250	15299	15318	0	CACCCTTGGCCACGCCGGCA
405882	5-10-5	251	15300	15319	0	GCACCCTTGGCCACGCCGGC
405883	5-10-5	252	15301	15320	0	GGCACCCTTGGCCACGCCGG
405884	5-10-5	253	15302	15321	0	TGGCACCCTTGGCCACGCCG
405885	5-10-5	346	20717	20736	0	GGAACCAGGCCTCATTGATG
405886	5-10-5	347	20718	20737	0	GGGAACCAGGCCTCATTGAT
405887	5-10-5	348	20719	20738	0	AGGGAACCAGGCCTCATTGA
405888	5-10-5	349	20720	20739	0	CAGGGAACCAGGCCTCATTG
405889	5-10-5	350	20722	20741	0	CTCAGGGAACCAGGCCTCAT

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
405890	5-10-5	351	20723	20742	0	CCTCAGGGAACCAGGCCTCA
405891	5-10-5	352	20724	20743	0	TCCTCAGGGAACCAGGCCTC
405892	5-10-5	353	20725	20744	0	GTCCTCAGGGAACCAGGCCT
405893	5-10-5	431	26635	26654	0	ATGAGGGCCATCAGCACCTT
405894	5-10-5	432	26636	26655	0	GATGAGGGCCATCAGCACCT
405895	5-10-5	433	26637	26656	0	AGATGAGGGCCATCAGCACC
405896	5-10-5	434	26638	26657	0	GAGATGAGGGCCATCAGCAC
405897	5-10-5	435	26640	26659	0	TGGAGATGAGGGCCATCAGC
405898	5-10-5	436	26641	26660	0	CTGGAGATGAGGGCCATCAG
405899	5-10-5	437	26642	26661	0	GCTGGAGATGAGGGCCATCA
405900	5-10-5	438	26643	26662	0	AGCTGGAGATGAGGGCCATC
405901	5-10-5	439	26709	26728	0	GCTAGATGCCATCCAGAAAG
405902	5-10-5	440	26710	26729	0	GGCTAGATGCCATCCAGAAA
405903	5-10-5	441	26711	26730	0	TGGCTAGATGCCATCCAGAA
405904	5-10-5	442	26712	26731	0	CTGGCTAGATGCCATCCAGA
405905	5-10-5	443	26714	26733	0	CTCTGGCTAGATGCCATCCA
405906	5-10-5	444	26715	26734	0	CCTCTGGCTAGATGCCATCC
405907	5-10-5	445	26716	26735	0	GCCTCTGGCTAGATGCCATC
405908	5-10-5	446	26717	26736	0	AGCCTCTGGCTAGATGCCAT
405909	5-10-5	267	18595	18614	0	CAGCTGGCTTTTCCGAATAA
405910	5-10-5	268	18597	18616	0	ACCAGCTGGCTTTTCCGAAT
405911	5-10-5	269	18599	18618	0	GGACCAGCTGGCTTTTCCGA
405912	5-10-5	270	18603	18622	0	GGCTGGACCAGCTGGCTTTT
405913	5-10-5	275	18707	18726	0	CGGTGACCAGCACGACCCCA
405914	5-10-5	276	18709	18728	0	AGCGGTGACCAGCACGACCC
405915	5-10-5	277	18711	18730	0	GCAGCGGTGACCAGCACGAC
405916	5-10-5	278	18713	18732	0	CGGCAGCGGTGACCAGCACG
405917	5-10-5	280	18717	18736	0	TTGCCGGCAGCGGTGACCAG
405918	5-10-5	281	18719	18738	0	AGTTGCCGGCAGCGGTGACC
405919	5-10-5	282	18721	18740	0	GAAGTTGCCGGCAGCGGTGA
405920	5-10-5	283	18723	18742	0	CGGAAGTTGCCGGCAGCGGT
405921	5-10-5	284	18725	18744	0	CCCGGAAGTTGCCGGCAGCG
405922	5-10-5	285	18727	18746	0	GTCCCGGAAGTTGCCGGCAG
405923	5-10-5	288	19931	19950	0	GGCATTGGTGGCCCCAACTG
405924	5-10-5	290	19954	19973	0	CCCAGGGTCACCGGCTGGTC
405925	5-10-5	292	19958	19977	0	AGTCCCCAGGGTCACCGGCT
405926	5-10-5	293	19960	19979	0	AAAGTCCCCAGGGTCACCGG
405927	5-10-5	294	19964	19983	0	CCCCAAAGTCCCCAGGGTCA
405928	5-10-5	295	19969	19988	0	TTGGTCCCCAAAGTCCCCAG
405929	5-10-5	296	19973	19992	0	AAAGTTGGTCCCCAAAGTCC
405930	5-10-5	297	19978	19997	0	CGGCCAAAGTTGGTCCCCAA
405931	5-10-5	298	19980	19999	0	AGCGGCCAAAGTTGGTCCCC
405932	5-10-5	299	19982	20001	0	ACAGCGGCCAAAGTTGGTCC
405933	5-10-5	300	19984	20003	0	ACACAGCGGCCAAAGTTGGT
405934	5-10-5	301	19986	20005	0	CCACACAGCGGCCAAAGTTG
405935	5-10-5	302	19990	20009	0	AGGTCCACACAGCGGCCAAA
405936	5-10-5	304	19994	20013	0	AAAGAGGTCCACACAGCGGC
405937	5-10-5	306	20023	20042	0	GAGGCACCAATGATGTCTC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
405938	5-10-5	307	20027	20046	0	GCTGGAGGCACCAATGATGT
405939	5-10-5	308	20029	20048	0	TCGCTGGAGGCACCAATGAT
405940	5-10-5	309	20031	20050	0	AGTCGCTGGAGGCACCAATG
405941	5-10-5	310	20033	20052	0	GCAGTCGCTGGAGGCACCAA
405942	5-10-5	311	20038	20057	0	GTGCTGCAGTCGCTGGAGGC
405943	5-10-5	312	20040	20059	0	AGGTGCTGCAGTCGCTGGAG
405944	5-10-5	314	20043	20062	0	AGCAGGTGCTGCAGTCGCTG
405945	5-10-5	315	20045	20064	0	AAAGCAGGTGCTGCAGTCGC
405946	5-10-5	316	20049	20068	0	ACACAAAGCAGGTGCTGCAG
405947	5-10-5	317	20051	20070	0	TGACACAAAGCAGGTGCTGC
405949	5-10-5	320	20629	20648	0	CAGCATCATGGCTGCAATGC
405950	5-10-5	321	20631	20650	0	GACAGCATCATGGCTGCAAT
405951	5-10-5	322	20633	20652	0	CAGACAGCATCATGGCTGCA
405952	5-10-5	323	20637	20656	0	TCGGCAGACAGCATCATGGC
405953	5-10-5	325	20641	20660	0	CGGCTCGGCAGACAGCATCA
405954	5-10-5	326	20643	20662	0	TCCGGCTCGGCAGACAGCAT
405955	5-10-5	328	20670	20689	0	CTCTGCCTCAACTCGGCCAG
405956	5-10-5	329	20672	20691	0	GTCTCTGCCTCAACTCGGCC
405957	5-10-5	330	20674	20693	0	CAGTCTCTGCCTCAACTCGG
405958	5-10-5	331	20676	20695	0	ATCAGTCTCTGCCTCAACTC
405959	5-10-5	332	20678	20697	0	GGATCAGTCTCTGCCTCAAC
405960	5-10-5	333	20680	20699	0	GTGGATCAGTCTCTGCCTCA
405961	5-10-5	334	20682	20701	0	AAGTGGATCAGTCTCTGCCT
405962	5-10-5	335	20685	20704	0	GAGAAGTGGATCAGTCTCTG
405963	5-10-5	337	20689	20708	0	GGCAGAGAAGTGGATCAGTC
405964	5-10-5	338	20693	20712	0	CTTTGGCAGAGAAGTGGATC
405965	5-10-5	339	20698	20717	0	GACATCTTTGGCAGAGAAGT
405966	5-10-5	340	20700	20719	0	ATGACATCTTTGGCAGAGAA
405967	5-10-5	341	20704	20723	0	ATTGATGACATCTTTGGCAG
405968	5-10-5	342	20706	20725	0	TCATTGATGACATCTTTGGC
405969	5-10-5	343	20711	20730	0	AGGCCTCATTGATGACATCT
405970	5-10-5	344	20713	20732	0	CCAGGCCTCATTGATGACAT
405971	5-10-5	355	20728	20747	0	CTGGTCCTCAGGGAACCAGG
405972	5-10-5	357	20730	20749	0	CGCTGGTCCTCAGGGAACCA
405973	5-10-5	358	20735	20754	0	GTACCCGCTGGTCCTCAGGG
405974	5-10-5	359	20737	20756	0	CAGTACCCGCTGGTCCTCAG
405975	5-10-5	361	21088	21107	0	CAAAACAGCTGCCAACCTGC
405976	5-10-5	362	21093	21112	0	TCCTGCAAAACAGCTGCCAA
405977	5-10-5	363	21095	21114	0	AGTCCTGCAAAACAGCTGCC
405978	5-10-5	365	21118	21137	0	GGCCCCGAGTGTGCTGACCA
405979	5-10-5	366	21123	21142	0	GTGTAGGCCCCGAGTGTGCT
405980	5-10-5	367	21125	21144	0	CCGTGTAGGCCCCGAGTGTG
405981	5-10-5	368	21127	21146	0	ATCCGTGTAGGCCCCGAGTG
405982	5-10-5	370	21131	21150	0	GGCCATCCGTGTAGGCCCCG
405983	5-10-5	371	21133	21152	0	GTGGCCATCCGTGTAGGCC
405984	5-10-5	372	21181	21200	0	CTGGAGCAGCTCAGCAGCTC
405985	5-10-5	373	21183	21202	0	AACTGGAGCAGCTCAGCAGC
405986	5-10-5	374	21188	21207	0	GGAGAAACTGGAGCAGCTCA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
405987	5-10-5	375	21190	21209	0	CTGGAGAAACTGGAGCAGCT
405988	5-10-5	381	22138	22157	0	GGCAGCACCTGGCAATGGCG
405989	5-10-5	383	22140	22159	0	CAGGCAGCACCTGGCAATGG
405990	5-10-5	386	22144	22163	0	GTAGCAGGCAGCACCTGGCA
405991	5-10-5	394	22206	22225	0	GACACGGGTCCCCATGCTGG
405992	5-10-5	396	22208	22227	0	TGGACACGGGTCCCCATGCT
405993	5-10-5	398	22210	22229	0	AGTGGACACGGGTCCCCATG
405994	5-10-5	400	22212	22231	0	GCAGTGGACACGGGTCCCCA
405995	5-10-5	402	22214	22233	0	TGGCAGTGGACACGGGTCCC
405996	5-10-5	412	24097	24116	0	GACTTTGCATTCCAGACCTG
405997	5-10-5	415	24102	24121	0	TCCTTGACTTTGCATTCCAG
405998	5-10-5	426	26120	26139	0	TCCGGCAGCAGATGGCAACG
405999	5-10-5	160	2437	2456	0	GACCGCCTGGAGCTGACGGT
406003	5-10-5	178	6492	6511	0	CAGTGCGCTCTGACTGCGAG
406004	5-10-5	179	6494	6513	0	GGCAGTGCGCTCTGACTGCG
406005	5-10-5	180	6496	6515	0	CGGGCAGTGCGCTCTGACTG
406006	5-10-5	181	6499	6518	0	CGGCGGGCAGTGCGCTCTGA
406007	5-10-5	183	6532	6551	0	AGGTATCCCCGGCGGGCAGC
406008	5-10-5	188	6539	6558	0	CTTGGTGAGGTATCCCCGGC
406009	5-10-5	190	6541	6560	0	ATCTTGGTGAGGTATCCCCG
406010	5-10-5	193	6546	6565	0	GCAGGATCTTGGTGAGGTAT
406011	5-10-5	194	6548	6567	0	ATGCAGGATCTTGGTGAGGT
406012	5-10-5	195	6550	6569	0	ACATGCAGGATCTTGGTGAG
406013	5-10-5	196	6554	6573	0	GAAGACATGCAGGATCTTGG
406014	5-10-5	199	6585	6604	0	TCTTCACCAGGAAGCCAGGA
406015	5-10-5	200	6590	6609	0	ACTCATCTTCACCAGGAAGC
406016	5-10-5	201	6592	6611	0	CCACTCATCTTCACCAGGAA
406017	5-10-5	203	6596	6615	0	GTCGCCACTCATCTTCACCA
406018	5-10-5	204	6598	6617	0	AGGTCGCCACTCATCTTCAC
406019	5-10-5	205	6600	6619	0	GCAGGTCGCCACTCATCTTC
406020	5-10-5	206	6602	6621	0	CAGCAGGTCGCCACTCATCT
406021	5-10-5	210	9207	9226	0	TTCATCCGCCCGGTACCGTG
406022	5-10-5	211	9209	9228	0	TATTCATCCGCCCGGTACCG
406023	5-10-5	212	9212	9231	0	TGGTATTCATCCGCCCGGTA
406024	5-10-5	213	9214	9233	0	GCTGGTATTCATCCGCCCGG
406025	5-10-5	216	14888	14907	0	GTGTCTAGGAGATACACCTC
406026	5-10-5	217	14893	14912	0	TGCTGGTGTCTAGGAGATAC
406027	5-10-5	226	14930	14949	0	ATGACCCTGCCCTCGATTTC
406028	5-10-5	227	14932	14951	0	CCATGACCCTGCCCTCGATT
406029	5-10-5	228	14934	14953	0	GACCATGACCCTGCCCTCGA
406030	5-10-5	229	14938	14957	0	CGGTGACCATGACCCTGCC
406031	5-10-5	230	14940	14959	0	GTCGGTGACCATGACCCTGC
406032	5-10-5	232	14944	14963	0	CGAAGTCGGTGACCATGACC
406033	5-10-5	237	15261	15280	0	CCTGCCAGGTGGGTGCCATG
406034	5-10-5	238	15266	15285	0	CCACCCCTGCCAGGTGGGTG
406035	5-10-5	239	15271	15290	0	GCTGACCACCCCTGCCAGGT
406036	5-10-5	241	15283	15302	0	GGCATCCCGGCCGCTGACCA
406037	5-10-5	242	15286	15305	0	GCCGGCATCCCGGCCGCTGA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
406038	5-10-5	245	15293	15312	0	TGGCCACGCCGGCATCCCGG
406039	5-10-5	257	15330	15349	0	CAGTTGAGCACGCGCAGGCT
406040	5-10-5	258	15332	15351	0	GGCAGTTGAGCACGCGCAGG
406041	5-10-5	259	15336	15355	0	CCTTGGCAGTTGAGCACGCG
406042	5-10-5	260	15341	15360	0	CCTCCCTTGGCAGTTGAGC
406043	5-10-5	261	15345	15364	0	GTGCCCTTCCCTTGGCAGTT
406044	5-10-5	262	15347	15366	0	CCGTGCCCTTCCCTTGGCAG
406045	5-10-5	266	18591	18610	0	TGGCTTTTCCGAATAAACTC
406478	5-10-5	448	21692	21711	0	CTGCCCTTCCACCAAATGC
406479	5-10-5	449	21693	21712	0	ACTGCCCTTCCACCAAATG
406480	5-10-5	450	21694	21713	0	CACTGCCCTTCCACCAAAT
406481	5-10-5	451	21695	21714	0	GCACTGCCCTTCCACCAAAA
406482	5-10-5	452	21697	21716	0	GGGCACTGCCCTTCCACCAA
406483	5-10-5	453	21698	21717	0	TGGGCACTGCCCTTCCACCA
406484	5-10-5	454	21699	21718	0	CTGGGCACTGCCCTTCCACC
406485	5-10-5	455	21700	21719	0	GCTGGGCACTGCCCTTCCAC
408653	5-10-5	354	20727	20746	0	TGGTCCTCAGGGAACCAGGC
409126	5-10-5	447	15298	15317	1	ACCCTTGGTCACGCCGGCAT
410529	5-10-5	184	6534	6553	0	TGAGGTATCCCCGGCGGGCA
410530	5-10-5	185	6535	6554	0	GTGAGGTATCCCCGGCGGGC
410531	5-10-5	186	6536	6555	0	GGTGAGGTATCCCCGGCGGG
410532	5-10-5	187	6538	6557	0	TTGGTGAGGTATCCCCGGCG
410533	5-10-5	189	6540	6559	0	TCTTGGTGAGGTATCCCCGG
410534	5-10-5	191	6542	6561	0	GATCTTGGTGAGGTATCCCC
410535	5-10-5	192	6544	6563	0	AGGATCTTGGTGAGGTATCC
410536	5-10-5	243	15291	15310	0	GCCACGCCGGCATCCCGGCC
410537	5-10-5	244	15292	15311	0	GGCCACGCCGGCATCCCGGC
410538	5-10-5	254	15303	15322	0	CTGGCACCTTGGCCACGCC
410539	5-10-5	255	15304	15323	0	GCTGGCACCTTGGCCACGC
410540	5-10-5	356	20729	20748	0	GCTGGTCCTCAGGGAACCAG
410541	5-10-5	376	22133	22152	0	CACCTGGCAATGGCGTAGAC
410542	5-10-5	377	22134	22153	0	GCACCTGGCAATGGCGTAGA
410543	5-10-5	378	22135	22154	0	AGCACCTGGCAATGGCGTAG
410544	5-10-5	379	22136	22155	0	CAGCACCTGGCAATGGCGTA
410545	5-10-5	380	22137	22156	0	GCAGCACCTGGCAATGGCGT
410546	5-10-5	382	22139	22158	0	AGGCAGCACCTGGCAATGGC
410547	5-10-5	384	22141	22160	0	GCAGGCAGCACCTGGCAATG
410548	5-10-5	385	22143	22162	0	TAGCAGGCAGCACCTGGCAA
410549	5-10-5	388	22199	22218	0	GTCCCCATGCTGGCCTCAGC
410550	5-10-5	389	22200	22219	0	GGTCCCCATGCTGGCCTCAG
410551	5-10-5	390	22201	22220	0	GGGTCCCCATGCTGGCCTCA
410552	5-10-5	391	22202	22221	0	CGGGTCCCCATGCTGGCCTC
410553	5-10-5	392	22203	22222	0	ACGGGTCCCCATGCTGGCCT
410554	5-10-5	393	22205	22224	0	ACACGGGTCCCCATGCTGGC
410555	5-10-5	395	22207	22226	0	GGACACGGGTCCCCATGCTG
410556	5-10-5	397	22209	22228	0	GTGGACACGGGTCCCCATGC
410557	5-10-5	399	22211	22230	0	CAGTGGACACGGGTCCCCAT
410558	5-10-5	401	22213	22232	0	GGCAGTGGACACGGGTCCCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410559	5-10-5	403	22215	22234	0	GTGGCAGTGGACACGGGTCC
410560	5-10-5	404	22216	22235	0	GGTGGCAGTGGACACGGGTC
410561	5-10-5	405	22217	22236	0	TGGTGGCAGTGGACACGGGT
410562	5-10-5	411	24096	24115	0	ACTTTGCATTCCAGACCTGG
410563	5-10-5	413	24098	24117	0	TGACTTTGCATTCCAGACCT
410564	5-10-5	414	24099	24118	0	TTGACTTTGCATTCCAGACC
410565	5-10-5	419	26112	26131	0	CAGATGGCAACGGCTGTCAC
410566	5-10-5	420	26113	26132	0	GCAGATGGCAACGGCTGTCA
410567	5-10-5	421	26114	26133	0	AGCAGATGGCAACGGCTGTC
410568	5-10-5	422	26115	26134	0	CAGCAGATGGCAACGGCTGT
410569	5-10-5	423	26116	26135	0	GCAGCAGATGGCAACGGCTG
410570	5-10-5	424	26118	26137	0	CGGCAGCAGATGGCAACGGC
410571	5-10-5	425	26119	26138	0	CCGGCAGCAGATGGCAACGG
410572	5-10-5	427	26121	26140	0	CTCCGGCAGCAGATGGCAAC
410573	5-10-5	428	26122	26141	0	GCTCCGGCAGCAGATGGCAA
410730	5-10-5	202	6594	6613	0	CGCCACTCATCTTCACCAGG
410731	5-10-5	207	6604	6623	0	TCCAGCAGGTCGCCACTCAT
410732	5-10-5	214	9216	9235	0	GGGCTGGTATTCATCCGCC
410733	5-10-5	231	14942	14961	0	AAGTCGGTGACCATGACCCT
410734	5-10-5	279	18714	18733	0	CCGGCAGCGGTGACCAGCAC
410735	5-10-5	291	19956	19975	0	TCCCCAGGGTCACCGGCTGG
410736	5-10-5	303	19992	20011	0	AGAGGTCCACACAGCGGCCA
410737	5-10-5	313	20042	20061	0	GCAGGTGCTGCAGTCGCTGG
410738	5-10-5	324	20639	20658	0	GCTCGGCAGACAGCATCATG
410739	5-10-5	336	20687	20706	0	CAGAGAAGTGGATCAGTCTC
410740	5-10-5	345	20715	20734	0	AACCAGGCCTCATTGATGAC
410741	5-10-5	369	21129	21148	0	CCATCCGTGTAGGCCCCGAG
410742	5-10-5	159	2433	2452	0	GCCTGGAGCTGACGGTGCCC
410743	5-10-5	170	2560	2579	0	TCCTCCTCGGAACGCAAGGC
410744	5-10-5	171	2585	2604	0	GTGCTCGGGTGCTTCGGCCA
410745	5-10-5	172	2605	2624	0	TGGAAGGTGGCTGTGGTTCC
410746	5-10-5	176	6444	6463	0	CGTAGGTGCCAGGCAACCTC
410747	5-10-5	177	6482	6501	0	TGACTGCGAGAGGTGGGTCT
410748	5-10-5	182	6528	6547	0	ATCCCCGGCGGGCAGCCTGG
410749	5-10-5	197	6565	6584	0	AGAAGGCCATGGAAGACATG
410750	5-10-5	198	6575	6594	0	GAAGCCAGGAAGAAGGCCAT
410752	5-10-5	209	9149	9168	0	GCAAAGACAGAGGAGTCCTC
410753	5-10-5	215	14877	14896	0	ATACACCTCCACCAGGCTGC
410754	5-10-5	233	14954	14973	0	GGCACATTCTCGAAGTCGGT
410756	5-10-5	235	15254	15273	0	GGTGGGTGCCATGACTGTCA
410757	5-10-5	240	15279	15298	0	TCCCGGCCGCTGACCACCCC
410758	5-10-5	256	15309	15328	0	CGCATGCTGGCACCCCTTGGC
410759	5-10-5	263	15358	15377	0	GGTGCCGCTAACCGTGCCCT
410761	5-10-5	271	18614	18633	0	GTGGCCCCACAGGCTGGACC
410762	5-10-5	272	18627	18646	0	AGCAGCACCACCAGTGGCCC
410763	5-10-5	273	18649	18668	0	GCTGTACCCACCCGCCAGGG
410764	5-10-5	274	18695	18714	0	CGACCCCAGCCCTCGCCAGG
410767	5-10-5	289	19941	19960	0	GCTGGTCTTGGGCATTGGTG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410768	5-10-5	305	20016	20035	0	CAATGATGTCCTCCCCTGGG
410769	5-10-5	318	20061	20080	0	TCCCACTCTGTGACACAAAG
410770	5-10-5	327	20657	20676	0	CGGCCAGGGTGAGCTCCGGC
410771	5-10-5	360	20785	20804	0	ACCTGCCCCATGGGTGCTGG
410772	5-10-5	364	21106	21125	0	GCTGACCATACAGTCCTGCA
410773	5-10-5	387	22189	22208	0	TGGCCTCAGCTGGTGGAGCT
410774	5-10-5	406	22220	22239	0	TGTTGGTGGCAGTGGACACG
410776	5-10-5	408	23985	24004	0	GTGCCAAGGTCCTCCACCTC
410777	5-10-5	409	24005	24024	0	TCAGCACAGGCGGCTTGTGG
410778	5-10-5	410	24035	24054	0	CCACGCACTGGTTGGGCTGA
410779	5-10-5	416	24115	24134	0	CGGGATTCCATGCTCCTTGA
410781	5-10-5	418	25994	26013	0	GGAGGGCACTGCAGCCAGTC
410782	5-10-5	429	26132	26151	0	CCAGGTGCCGGCTCCGGCAG
410783	5-10-5	430	26142	26161	0	GAGGCCTGCGCCAGGTGCCG

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 2. In certain such embodiments, the nucleotide sequences illustrated in Table 6 have a 3-14-3 gap-widened motif. Table 8 illustrates gap-widened antisense compounds targeted to SEQ ID NO: 2, having a 3-14-3 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10 **Table 8: Gapmer antisense compounds having a 3-14-3 motif targeted to SEQ ID NO: 2**

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399871	3-14-3	4	2274	2293	0	GCGCGGAATCCTGGCTGGGA
399872	3-14-3	5	2381	2400	0	GAGGAGACCTAGAGGCCGTG
399873	3-14-3	6	2439	2458	0	AGGACCGCCTGGAGCTGACG
399874	3-14-3	7	2549	2568	0	ACGCAAGGCTAGCACCAGCT
399875	3-14-3	9	2619	2638	0	CCTTGGCGCAGCGGTGGAAG
399876	3-14-3	10	6498	6517	0	GGCGGGCAGTGCGCTCTGAC
399877	3-14-3	11	6537	6556	0	TGGTGAGGTATCCCCGGCGG
399878	3-14-3	14	6557	6576	0	ATGGAAGACATGCAGGATCT
399879	3-14-3	15	6583	6602	0	TTCACCAGGAAGCCAGGAAG
399880	3-14-3	17	9130	9149	0	CCTCGATGTAGTCGACATGG
399881	3-14-3	18	9210	9229	0	GTATTCATCCGCCCGGTACC
399882	3-14-3	19	14891	14910	0	CTGGTGTCTAGGAGATACAC
399883	3-14-3	21	14916	14935	0	GATTTCCCGGTGGTCACTCT

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399884	3-14-3	24	14946	14965	0	CTCGAAGTCGGTGACCATGA
399885	3-14-3	25	14979	14998	0	GTGGAAGCGGGTCCCGTCCT
399886	3-14-3	26	15264	15283	0	ACCCCTGCCAGGTGGGTGCC
399887	3-14-3	28	15298	15317	0	ACCCTTGGCCACGCCGGCAT
399888	3-14-3	29	15334	15353	0	TTGGCAGTTGAGCACGCGCA
399890	3-14-3	32	18593	18612	0	GCTGGCTTTTCCGAATAAAC
399891	3-14-3	33	18705	18724	0	GTGACCAGCACGACCCCAGC
399892	3-14-3	149	19933	19952	0	TGGGCATTGGTGGCCCAAC
399893	3-14-3	34	19962	19981	0	CCAAAGTCCCAGGGTCACC
399894	3-14-3	128	19966	19985	0	GTCCCCAAAGTCCCAGGGT
399895	3-14-3	36	19976	19995	0	GCCAAAGTTGGTCCCCAAAG
399896	3-14-3	38	19997	20016	0	GGCAAAGAGGTCCACACAGC
399897	3-14-3	39	20025	20044	0	TGGAGGCACCAATGATGTCC
399899	3-14-3	45	20691	20710	0	TTGGCAGAGAAGTGGATCAG
399900	3-14-3	50	20726	20745	0	GGTCCTCAGGGAACCAGGCC
399901	3-14-3	87	20733	20752	0	ACCCGCTGGTCCTCAGGGAA
399902	3-14-3	119	20762	20781	0	GCAGGGCGGCCACCAGGTTG
399904	3-14-3	54	21121	21140	0	GTAGGCCCCGAGTGTGCTGA
399905	3-14-3	57	22096	22115	0	CGTTGTGGGCCCGGCAGACC
399906	3-14-3	58	22142	22161	0	AGCAGGCAGCACCTGGCAAT
399907	3-14-3	59	22204	22223	0	CACGGGTCCCCATGCTGGCC
399908	3-14-3	60	24095	24114	0	CTTTGCATTCCAGACCTGGG
399909	3-14-3	62	26117	26136	0	GGCAGCAGATGGCAACGGCT
399910	3-14-3	154	26217	26236	0	TTTTAAAGCTCAGCCCCAGC
399911	3-14-3	64	26311	26330	0	TCAAGGGCCAGGCCAGCAGC
399912	3-14-3	66	26404	26423	0	ATGCCCCACAGTGAGGGAGG
399913	3-14-3	67	26413	26432	0	AATGGTGAAATGCCCCACAG
399914	3-14-3	153	26456	26475	0	TTGGGAGCAGCTGGCAGCAC
399915	3-14-3	68	26557	26576	0	CATGGGAAGAATCCTGCCTC
399916	3-14-3	69	26639	26658	0	GGAGATGAGGGCCATCAGCA
399917	3-14-3	70	26707	26726	0	TAGATGCCATCCAGAAAGCT
399918	3-14-3	72	26790	26809	0	GGCATAGAGCAGAGTAAAGG
399919	3-14-3	112	27034	27053	0	GAAGAGGCTTGGCTTCAGAG
399920	3-14-3	75	27244	27263	0	GCTCAAGGAGGGACAGTTGT
399921	3-14-3	76	27279	27298	0	AAAGATAAATGTCTGCTTGC
399922	3-14-3	78	27350	27369	0	TCTTCAAGTTACAAAAGCAA
399923	3-14-3	85	13681	13700	0	ACAAATTCAGACTCAGCA
399924	3-14-3	129	13816	13835	0	GTGCCATCTGAACAGCACCT
399925	3-14-3	110	13926	13945	0	CCTGGAACCCCTGCAGCCAG
399926	3-14-3	152	13977	13996	0	TTCAGGCAGGTTGCTGCTAG
399927	3-14-3	140	13998	14017	0	TCAGCCAGGCCAAAGGAAGA
399928	3-14-3	136	14122	14141	0	TAGGAGAAAGTAGGGAGAGC
399929	3-14-3	132	14179	14198	0	TAAAAGCTGCAAGAGACTCA
399930	3-14-3	139	14267	14286	0	TCAGAGAAAACAGTCACCGA
399931	3-14-3	142	14404	14423	0	TCATTTTAGAGACAGGAAGC
399932	3-14-3	113	14441	14460	0	GAATAACAGTGATGTCTGGC
399933	3-14-3	138	14494	14513	0	TCACAGCTCACCGAGTCTGC
399934	3-14-3	98	14524	14543	0	AGTGTAATAAAGCCCCTA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399935	3-14-3	96	14601	14620	0	AGGACCCAAGTCATCCTGCT
399936	3-14-3	124	14631	14650	0	GGCCATCAGCTGGCAATGCT
399937	3-14-3	133	14675	14694	0	TAGACAAGGAAAGGGAGGCC
399938	3-14-3	103	14681	14700	0	ATTTCATAGACAAGGAAAGG
399939	3-14-3	155	14801	14820	0	CTTATAGTTAACACACAGAA
399943	3-14-3	102	5590	5609	0	ATGTGCAGAGATCAATCACA
399944	3-14-3	127	10633	10652	0	GGTGGTAATTTGTACAGCA
399945	3-14-3	84	11308	11327	0	AAGGTCACACAGTTAAGAGT
399946	3-14-3	157	18561	18580	0	AGGAACAAAGCCAAGGTCAC
399947	3-14-3	126	22292	22311	0	GGTGCATAAGGAGAAAGAGA
399948	3-14-3	147	24858	24877	0	TGAGTTCATTTAAGAGTGGA
399949	3-14-3	8	2556	2575	0	CCTCGGAACGCAAGGCTAGC
399950	3-14-3	12	6543	6562	0	GGATCTTGGTGAGGTATCCC
399951	3-14-3	13	6552	6571	0	AGACATGCAGGATCTTGGTG
399952	3-14-3	16	6588	6607	0	TCATCTTCACCAGGAAGCCA
399953	3-14-3	20	14896	14915	0	GTATGCTGGTGTCTAGGAGA
399954	3-14-3	22	14922	14941	0	GCCCTCGATTTCCCGGTGGT
399955	3-14-3	23	14936	14955	0	GTGACCATGACCCTGCCCTC
399956	3-14-3	27	15269	15288	0	TGACCACCCCTGCCAGGTGG
399957	3-14-3	30	15339	15358	0	TTCCCTTGGCAGTTGAGCAC
399958	3-14-3	35	19971	19990	0	AGTTGGTCCCCAAAGTCCCC
399959	3-14-3	37	19988	20007	0	GTCCACACAGCGGCCAAAGT
399960	3-14-3	40	20036	20055	0	GCTGCAGTCGCTGGAGGCAC
399961	3-14-3	41	20047	20066	0	ACAAAGCAGGTGCTGCAGTC
399963	3-14-3	43	20635	20654	0	GGCAGACAGCATCATGGCTG
399964	3-14-3	44	20683	20702	0	GAAGTGGATCAGTCTCTGCC
399965	3-14-3	46	20696	20715	0	CATCTTTGGCAGAGAAGTGG
399966	3-14-3	47	20702	20721	0	TGATGACATCTTTGGCAGAG
399967	3-14-3	48	20709	20728	0	GCCTCATTGATGACATCTTT
399968	3-14-3	49	20721	20740	0	TCAGGGAACCAGGCCTCATT
399969	3-14-3	51	20740	20759	0	GGTCAGTACCCGCTGGTCCT
399970	3-14-3	53	21091	21110	0	CTGCAAAACAGCTGCCAACC
399971	3-14-3	55	21186	21205	0	AGAAACTGGAGCAGCTCAGC
399972	3-14-3	56	21192	21211	0	TCCTGGAGAAACTGGAGCAG
399973	3-14-3	61	24100	24119	0	CTTGACTTTGCATTCCAGAC
399974	3-14-3	63	26222	26241	0	AACCATTTTAAAGCTCAGCC
399975	3-14-3	65	26316	26335	0	CCCACTCAAGGGCCAGGCCA
399976	3-14-3	122	26389	26408	0	GGAGGGAGCTTCTGGCACC
399977	3-14-3	71	26713	26732	0	TCTGGCTAGATGCCATCCAG
399978	3-14-3	73	26795	26814	0	AGCCTGGCATAGAGCAGAGT
399979	3-14-3	135	26801	26820	0	TAGCACAGCCTGGCATAGAG
399980	3-14-3	74	27040	27059	0	AAGTAAGAAGAGGCTTGGCT
399981	3-14-3	77	27284	27303	0	ACCCAAAAGATAAATGTCTG
399982	3-14-3	99	27357	27376	0	ATAAATATCTTCAAGTTACA
399983	3-14-3	100	13746	13765	0	ATCTCAGGACAGGTGAGCAA
399984	3-14-3	116	13760	13779	0	GAGTAGAGATTCTCATCTCA
399985	3-14-3	117	13828	13847	0	GAGTCTTCTGAAGTGCCATC
399986	3-14-3	81	13903	13922	0	AAGCAGGGCCTCAGGTGGAA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
399987	3-14-3	83	13986	14005	0	AAGGAAGACTTCAGGCAGGT
399988	3-14-3	137	14112	14131	0	TAGGGAGAGCTCACAGATGC
399989	3-14-3	92	14397	14416	0	AGAGACAGGAAGCTGCAGCT
399990	3-14-3	82	14670	14689	0	AAGGAAAGGGAGGCCTAGAG
399991	3-14-3	156	14809	14828	0	AAGTCAACCTTATAGTTAAC
399993	3-14-3	107	3056	3075	0	CCCACTATAATGGCAAGCCC
399994	3-14-3	80	4306	4325	0	AACCCAGTTCTAATGCACCT
399995	3-14-3	106	5140	5159	0	CCAGTCAGAGTAGAACAGAG
399996	3-14-3	121	5599	5618	0	GGAGCCTACATGTGCAGAGA
399997	3-14-3	94	5667	5686	0	AGCATGGCACCAGCATCTGC
399998	3-14-3	108	6652	6671	0	CCCAGCCCTATCAGGAAGTG
399999	3-14-3	144	7099	7118	0	TGACATCCAGGAGGGAGGAG
400000	3-14-3	91	7556	7575	0	AGACTGATGGAAGGCATTGA
400001	3-14-3	131	7565	7584	0	GTGTTGAGCAGACTGATGGA
400002	3-14-3	145	8836	8855	0	TGACATCTTGTCTGGGAGCC
400003	3-14-3	90	8948	8967	0	AGACTAGGAGCCTGAGTTTT
400004	3-14-3	125	9099	9118	0	GGCCTGCAGAAGCCAGAGAG
400005	3-14-3	148	10252	10271	0	TGGCAGCAACTCAGACATAT
400006	3-14-3	79	11472	11491	0	AAATGCAGGGCTAAAATCAC
400007	3-14-3	88	12715	12734	0	ACTGGATACATTGGCAGACA
400008	3-14-3	111	12928	12947	0	CTAGAGGAACCACTAGATAT
400009	3-14-3	86	15471	15490	0	ACAGCATTCTTGGTTAGGAG
400010	3-14-3	97	16134	16153	0	AGTCAAGCTGCTGCCCAGAG
400011	3-14-3	120	16668	16687	0	GCTAGTTATTAAGCACCTGC
400012	3-14-3	150	17267	17286	0	TGTGAGCTCTGGCCCAGTGG
400013	3-14-3	115	18377	18396	0	GAGTAAGGCAGGTTACTCTC
400014	3-14-3	134	18408	18427	0	TAGATGTGACTAACATTTAA
400015	3-14-3	105	19203	19222	0	CACATTAGCCTTGCTCAAGT
400016	3-14-3	151	19913	19932	0	TGTGATGACCTGGAAAGGTG
400017	3-14-3	158	20100	20119	0	GTGGTGACTTACCAGCCACG
400018	3-14-3	109	20188	20207	0	CCCCTGCACAGAGCCTGGCA
400019	3-14-3	141	20624	20643	0	TCATGGCTGCAATGCCTGGT
400020	3-14-3	93	20995	21014	0	AGAGAGGAGGGCTTAAAGAA
400021	3-14-3	95	21082	21101	0	AGCTGCCAACCTGCAAAAAG
400022	3-14-3	143	21481	21500	0	TGAAAATCCATCCAGCACTG
400023	3-14-3	89	21589	21608	0	AGAACCATGGAGCACCTGAG
400024	3-14-3	123	21696	21715	0	GGCACTGCCCTTCCACCAA
400025	3-14-3	118	24907	24926	0	GCACCATCCAGACCAGAATC
400026	3-14-3	114	25413	25432	0	GAGAGGTTTCAGATCCAGGCC
405604	3-14-3	236	15257	15276	0	CCAGGTGGGTGCCATGACTG
405641	3-14-3	373	21183	21202	0	AACTGGAGCAGCTCAGCAGC
410574	3-14-3	184	6534	6553	0	TGAGGTATCCCCGGCGGGCA
410575	3-14-3	185	6535	6554	0	GTGAGGTATCCCCGGCGGGC
410576	3-14-3	186	6536	6555	0	GGTGAGGTATCCCCGGCGGG
410577	3-14-3	187	6538	6557	0	TTGGTGAGGTATCCCCGGCG
410578	3-14-3	188	6539	6558	0	CTTGGTGAGGTATCCCCGGC
410579	3-14-3	189	6540	6559	0	TCTTGGTGAGGTATCCCCGG
410580	3-14-3	190	6541	6560	0	ATCTTGGTGAGGTATCCCCG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410581	3-14-3	191	6542	6561	0	GATCTTGGTGAGGTATCCCC
410582	3-14-3	192	6544	6563	0	AGGATCTTGGTGAGGTATCC
410583	3-14-3	243	15291	15310	0	GCCACGCCGGCATCCCCGGCC
410584	3-14-3	244	15292	15311	0	GGCCACGCCGGCATCCCCGGC
410585	3-14-3	245	15293	15312	0	TGGCCACGCCGGCATCCCCGG
410586	3-14-3	246	15294	15313	0	TTGGCCACGCCGGCATCCCCG
410587	3-14-3	247	15295	15314	0	CTTGGCCACGCCGGCATCCC
410588	3-14-3	248	15296	15315	0	CCTTGGCCACGCCGGCATCC
410589	3-14-3	249	15297	15316	0	CCCTTGGCCACGCCGGCATC
410590	3-14-3	250	15299	15318	0	CACCCTTGGCCACGCCGGCA
410591	3-14-3	251	15300	15319	0	GCACCCTTGGCCACGCCGGC
410592	3-14-3	252	15301	15320	0	GGCACCCTTGGCCACGCCGG
410593	3-14-3	253	15302	15321	0	TGGCACCCTTGGCCACGCCG
410594	3-14-3	254	15303	15322	0	CTGGCACCCTTGGCCACGCC
410595	3-14-3	255	15304	15323	0	GCTGGCACCCTTGGCCACGC
410596	3-14-3	348	20719	20738	0	AGGGAACCAGGCCTCATTGA
410597	3-14-3	349	20720	20739	0	CAGGGAACCAGGCCTCATTG
410598	3-14-3	350	20722	20741	0	CTCAGGGAACCAGGCCTCAT
410599	3-14-3	351	20723	20742	0	CCTCAGGGAACCAGGCCTCA
410600	3-14-3	352	20724	20743	0	TCCTCAGGGAACCAGGCCTC
410601	3-14-3	353	20725	20744	0	GTCCTCAGGGAACCAGGCCT
410602	3-14-3	354	20727	20746	0	TGGTCCTCAGGGAACCAGGC
410603	3-14-3	355	20728	20747	0	CTGGTCCTCAGGGAACCAGG
410604	3-14-3	356	20729	20748	0	GCTGGTCCTCAGGGAACCAG
410605	3-14-3	376	22133	22152	0	CACCTGGCAATGGCGTAGAC
410606	3-14-3	377	22134	22153	0	GCACCTGGCAATGGCGTAGA
410607	3-14-3	378	22135	22154	0	AGCACCTGGCAATGGCGTAG
410608	3-14-3	379	22136	22155	0	CAGCACCTGGCAATGGCGTA
410609	3-14-3	380	22137	22156	0	GCAGCACCTGGCAATGGCGT
410610	3-14-3	381	22138	22157	0	GGCAGCACCTGGCAATGGCG
410611	3-14-3	382	22139	22158	0	AGGCAGCACCTGGCAATGGC
410612	3-14-3	383	22140	22159	0	CAGGCAGCACCTGGCAATGG
410613	3-14-3	384	22141	22160	0	GCAGGCAGCACCTGGCAATG
410614	3-14-3	385	22143	22162	0	TAGCAGGCAGCACCTGGCAA
410615	3-14-3	388	22199	22218	0	GTCCCCATGCTGGCCTCAGC
410616	3-14-3	389	22200	22219	0	GGTCCCCATGCTGGCCTCAG
410617	3-14-3	390	22201	22220	0	GGGTCCCCATGCTGGCCTCA
410618	3-14-3	391	22202	22221	0	CGGGTCCCCATGCTGGCCTC
410619	3-14-3	392	22203	22222	0	ACGGGTCCCCATGCTGGCCT
410620	3-14-3	393	22205	22224	0	ACACGGGTCCCCATGCTGGC
410621	3-14-3	394	22206	22225	0	GACACGGGTCCCCATGCTGG
410622	3-14-3	395	22207	22226	0	GGACACGGGTCCCCATGCTG
410623	3-14-3	396	22208	22227	0	TGGACACGGGTCCCCATGCT
410624	3-14-3	397	22209	22228	0	GTGGACACGGGTCCCCATGC
410625	3-14-3	398	22210	22229	0	AGTGGACACGGGTCCCCATG
410626	3-14-3	399	22211	22230	0	CAGTGGACACGGGTCCCCAT
410627	3-14-3	400	22212	22231	0	GCAGTGGACACGGGTCCCCA
410628	3-14-3	401	22213	22232	0	GGCAGTGGACACGGGTCCCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410629	3-14-3	402	22214	22233	0	TGGCAGTGGACACGGGTCCC
410630	3-14-3	403	22215	22234	0	GTGGCAGTGGACACGGGTCC
410631	3-14-3	404	22216	22235	0	GGTGGCAGTGGACACGGGTCC
410632	3-14-3	405	22217	22236	0	TGGTGGCAGTGGACACGGGT
410633	3-14-3	411	24096	24115	0	ACTTTGCATTCCAGACCTGG
410634	3-14-3	412	24097	24116	0	GACTTTGCATTCCAGACCTG
410635	3-14-3	413	24098	24117	0	TGACTTTGCATTCCAGACCT
410636	3-14-3	414	24099	24118	0	TTGACTTTGCATTCCAGACC
410637	3-14-3	419	26112	26131	0	CAGATGGCAACGGCTGTCA
410638	3-14-3	420	26113	26132	0	GCAGATGGCAACGGCTGTCA
410639	3-14-3	421	26114	26133	0	AGCAGATGGCAACGGCTGTC
410640	3-14-3	422	26115	26134	0	CAGCAGATGGCAACGGCTGT
410641	3-14-3	423	26116	26135	0	GCAGCAGATGGCAACGGCTG
410642	3-14-3	424	26118	26137	0	CGGCAGCAGATGGCAACGGC
410643	3-14-3	425	26119	26138	0	CCGGCAGCAGATGGCAACGG
410644	3-14-3	426	26120	26139	0	TCCGGCAGCAGATGGCAACG
410645	3-14-3	427	26121	26140	0	CTCCGGCAGCAGATGGCAAC
410646	3-14-3	428	26122	26141	0	GCTCCGGCAGCAGATGGCAA

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 2. In certain such embodiments, the nucleotide sequences illustrated in Table 6 have a 2-13-5 gap-widened motif. Table 9 illustrates gap-widened antisense compounds targeted to SEQ ID NO: 2, having a 2-13-5 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10 **Table 9: Gapmer antisense compounds having a 2-13-5 motif targeted to SEQ ID NO: 2**

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410647	2-13-5	184	6534	6553	0	TGAGGTATCCCCGGCGGGCA
410648	2-13-5	185	6535	6554	0	GTGAGGTATCCCCGGCGGGC
410649	2-13-5	186	6536	6555	0	GGTGAAGGTATCCCCGGCGGG
410650	2-13-5	11	6537	6556	0	TGGTGAAGGTATCCCCGGCGG
410651	2-13-5	187	6538	6557	0	TTGGTGAAGGTATCCCCGGCG
410652	2-13-5	188	6539	6558	0	CTTGGTGAAGGTATCCCCGGC
410653	2-13-5	189	6540	6559	0	TCTTGGTGAAGGTATCCCCGG
410654	2-13-5	190	6541	6560	0	ATCTTGGTGAAGGTATCCCCG
410655	2-13-5	191	6542	6561	0	GATCTTGGTGAAGGTATCCCC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410656	2-13-5	12	6543	6562	0	GGATCTTGGTGAGGTATCCC
410657	2-13-5	192	6544	6563	0	AGGATCTTGGTGAGGTATCC
410658	2-13-5	243	15291	15310	0	GCCACGCCGGCATCCCGGCC
410659	2-13-5	244	15292	15311	0	GGCCACGCCGGCATCCCGGC
410660	2-13-5	245	15293	15312	0	TGGCCACGCCGGCATCCCGG
410661	2-13-5	246	15294	15313	0	TTGGCCACGCCGGCATCCCG
410662	2-13-5	247	15295	15314	0	CTTGGCCACGCCGGCATCCC
410663	2-13-5	248	15296	15315	0	CCTTGGCCACGCCGGCATCC
410664	2-13-5	249	15297	15316	0	CCCTTGGCCACGCCGGCATC
410665	2-13-5	28	15298	15317	0	ACCCTTGGCCACGCCGGCAT
410666	2-13-5	250	15299	15318	0	CACCCTTGGCCACGCCGGCA
410667	2-13-5	251	15300	15319	0	GCACCCTTGGCCACGCCGGC
410668	2-13-5	252	15301	15320	0	GGCACCCTTGGCCACGCCGG
410669	2-13-5	253	15302	15321	0	TGGCACCCTTGGCCACGCCG
410670	2-13-5	254	15303	15322	0	CTGGCACCCTTGGCCACGCC
410671	2-13-5	255	15304	15323	0	GCTGGCACCCTTGGCCACGC
410672	2-13-5	348	20719	20738	0	AGGGAACCAGGCCTCATTGA
410673	2-13-5	349	20720	20739	0	CAGGGAACCAGGCCTCATTG
410674	2-13-5	49	20721	20740	0	TCAGGGAACCAGGCCTCATT
410675	2-13-5	350	20722	20741	0	CTCAGGGAACCAGGCCTCAT
410676	2-13-5	351	20723	20742	0	CCTCAGGGAACCAGGCCTCA
410677	2-13-5	352	20724	20743	0	TCCTCAGGGAACCAGGCCTC
410678	2-13-5	353	20725	20744	0	GTCCTCAGGGAACCAGGCCT
410679	2-13-5	50	20726	20745	0	GGTCCTCAGGGAACCAGGCC
410680	2-13-5	354	20727	20746	0	TGGTCCTCAGGGAACCAGGC
410681	2-13-5	355	20728	20747	0	CTGGTCCTCAGGGAACCAGG
410682	2-13-5	356	20729	20748	0	GCTGGTCCTCAGGGAACCAG
410683	2-13-5	376	22133	22152	0	CACCTGGCAATGGCGTAGAC
410684	2-13-5	377	22134	22153	0	GCACCTGGCAATGGCGTAGA
410685	2-13-5	378	22135	22154	0	AGCACCTGGCAATGGCGTAG
410686	2-13-5	379	22136	22155	0	CAGCACCTGGCAATGGCGTA
410687	2-13-5	380	22137	22156	0	GCAGCACCTGGCAATGGCGT
410688	2-13-5	381	22138	22157	0	GGCAGCACCTGGCAATGGCG
410689	2-13-5	382	22139	22158	0	AGGCAGCACCTGGCAATGGC
410690	2-13-5	383	22140	22159	0	CAGGCAGCACCTGGCAATGG
410691	2-13-5	384	22141	22160	0	GCAGGCAGCACCTGGCAATG
410692	2-13-5	58	22142	22161	0	AGCAGGCAGCACCTGGCAAT
410693	2-13-5	385	22143	22162	0	TAGCAGGCAGCACCTGGCAA
410694	2-13-5	388	22199	22218	0	GTCCCCATGCTGGCCTCAGC
410695	2-13-5	389	22200	22219	0	GGTCCCCATGCTGGCCTCAG
410696	2-13-5	390	22201	22220	0	GGGTCCCCATGCTGGCCTCA
410697	2-13-5	391	22202	22221	0	CGGGTCCCCATGCTGGCCTC
410698	2-13-5	392	22203	22222	0	ACGGGTCCCCATGCTGGCCT
410699	2-13-5	59	22204	22223	0	CACGGGTCCCCATGCTGGCC
410700	2-13-5	393	22205	22224	0	ACACGGGTCCCCATGCTGGC
410701	2-13-5	394	22206	22225	0	GACACGGGTCCCCATGCTGG
410702	2-13-5	395	22207	22226	0	GGACACGGGTCCCCATGCTG
410703	2-13-5	396	22208	22227	0	TGGACACGGGTCCCCATGCT

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
410704	2-13-5	397	22209	22228	0	GTGGACACGGGTCCCCATGC
410705	2-13-5	398	22210	22229	0	AGTGGACACGGGTCCCCATG
410706	2-13-5	399	22211	22230	0	CAGTGGACACGGGTCCCCAT
410707	2-13-5	400	22212	22231	0	GCAGTGGACACGGGTCCCCA
410708	2-13-5	401	22213	22232	0	GGCAGTGGACACGGGTCCCC
410709	2-13-5	402	22214	22233	0	TGGCAGTGGACACGGGTCCC
410710	2-13-5	403	22215	22234	0	GTGGCAGTGGACACGGGTCC
410711	2-13-5	404	22216	22235	0	GGTGGCAGTGGACACGGGTG
410712	2-13-5	405	22217	22236	0	TGGTGGCAGTGGACACGGGT
410713	2-13-5	60	24095	24114	0	CTTTGCATTCCAGACCTGGG
410714	2-13-5	411	24096	24115	0	ACTTTGCATTCCAGACCTGG
410715	2-13-5	412	24097	24116	0	GACTTTGCATTCCAGACCTG
410716	2-13-5	413	24098	24117	0	TGACTTTGCATTCCAGACCT
410717	2-13-5	414	24099	24118	0	TTGACTTTGCATTCCAGACC
410718	2-13-5	61	24100	24119	0	CITGACTTTGCATTCCAGAC
410719	2-13-5	419	26112	26131	0	CAGATGGCAACGGCTGTCA
410720	2-13-5	420	26113	26132	0	GCAGATGGCAACGGCTGTCA
410721	2-13-5	421	26114	26133	0	AGCAGATGGCAACGGCTGTC
410722	2-13-5	422	26115	26134	0	CAGCAGATGGCAACGGCTGT
410723	2-13-5	423	26116	26135	0	GCAGCAGATGGCAACGGCTG
410724	2-13-5	62	26117	26136	0	GGCAGCAGATGGCAACGGCT
410725	2-13-5	424	26118	26137	0	CGGCAGCAGATGGCAACGGC
410726	2-13-5	425	26119	26138	0	CCGGCAGCAGATGGCAACGG
410727	2-13-5	426	26120	26139	0	TCCGGCAGCAGATGGCAACG
410728	2-13-5	427	26121	26140	0	CTCCGGCAGCAGATGGCAAC
410729	2-13-5	428	26122	26141	0	GCTCCGGCAGCAGATGGCAA

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 2. In certain such embodiments, the nucleotide sequences illustrated in Table 6 have a 3-13-4 gap-widened motif. Table 10 illustrates gap-widened antisense compounds targeted to SEQ ID NO: 2, having a 3-13-4 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10

Table 10: Gapmer antisense compounds having a 3-13-4 motif targeted to SEQ ID NO: 2

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
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Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO:2	3' Target Site on SEQ ID NO: 2	Mismatches	Sequence (5'-3')
405526	3-13-4	236	15257	15276	0	CCAGGTGGGTGCCATGACTG
405557	3-13-4	50	20726	20745	0	GGTCCTCAGGGAACCAGGCC
405564	3-13-4	373	21183	21202	0	AACTGGAGCAGCTCAGCAGC

The following embodiments set forth target regions of PCSK9 nucleic acids. Also illustrated are examples of antisense compounds targeted to the target regions. It is understood that the sequence set forth in each SEQ ID NO is independent of any modification to a sugar moiety, an internucleoside linkage, or a nucleobase. As such, antisense compounds defined by a SEQ ID NO may comprise, independently, one or more modifications to a sugar moiety, an internucleoside linkage, or a nucleobase. Antisense compounds described by Isis Number (Isis No) indicate a combination of nucleobase sequence and motif.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common. In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets the following nucleotide regions of SEQ ID: 2: 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973, 14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321, 15294-15321, 15295-15322, 15296-15323, 15297-15323, 15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804,

20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-
20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746,
20720-20747, 20721-20748, 20722-20749, 20727-20752, 20735-20759, 20762-21014, 20785-
21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209,
5 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-
22115, 22096-22223, 22096-22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162,
22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-
22227, 22201-22228, 22202-22229, 22203-22230, 22204-22231, 22205-22232, 22206-22233,
22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-
10 22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926,
25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-
26141, 26115-26141, 26116-26141, 26117-26141, 26117-26475, 26118-26141, 26120-26141,
26132-26151, 26142-26161, 26217-26241, 26311-26335, 26389-26432, 26456-26576, 26635-
26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376.

15 In certain embodiments, a target region is nucleotides 2274-2400 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 2274-2400 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 4 or 5. In certain such embodiments, an
antisense compound targeted to nucleotides 2274-2400 of SEQ ID NO: 2 is selected from ISIS
20 NOs: 395149, 399871, 395150 or 399872.

In certain embodiments, a target region is nucleotides 2274-2575 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 2274-2575 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 4, 5, 6, 7, 8, 159, 160, 162, 163, 164, 165, 166,
25 167, 168 or 169. In certain such embodiments, an antisense compound targeted to nucleotides
2274-2575 of SEQ ID NO: 2 is selected from ISIS NOs: 395149, 399871, 395150, 399872,
410742, 405999, 395151, 399873, 405861, 405862, 405863, 405864, 395152, 399874, 405865,
405866, 405867, 405868, 399793, or 399949.

In certain embodiments, a target region is nucleotides 2433-2570 of SEQ ID NO: 2. In
30 certain embodiments, an antisense compound is targeted to nucleotides 2433-2570 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 6, 7, 159, 160, 162, 163, 164, 165, 166, or 167.
In certain such embodiments, an antisense compound targeted to nucleotides 2433-2570 of SEQ

ID NO: 2 is selected from ISIS NOs: 395151, 395152, 399873, 399874, 405861, 405862, 405863, 405864, 405865, 405866, 405999, or 410742.

In certain embodiments, a target region is nucleotides 2433-2579 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 2433-2579 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 6, 7, 8, 159, 160, 162, 163, 164, 165, 166, 167, 168, 169, or 170. In certain such embodiments, an antisense compound targeted to nucleotides 2433-2579 of SEQ ID NO: 2 is selected from ISIS NOs: 395151, 395152, 399793, 399873, 399874, 399949, 405861, 405862, 405863, 405864, 405865, 405866, 405867, 405868, 405999, 10 410742, or 410743.

In certain embodiments, a target region is nucleotides 2549-2575 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 2549-2575 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 7, 8, 166, 167, 168 or 169. In certain such 15 embodiments, an antisense compound targeted to nucleotides 2549-2575 of SEQ ID NO: 2 is selected from ISIS NOs: 395152, 399793, 399874, 399949, 405865, 405866, 405867, or 405868.

In certain embodiments, a target region is nucleotides 2552-2579 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 2552-2579 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 8, 168, 169 or 170. In certain such 20 embodiments, an antisense compound targeted to nucleotides 2552-2579 of SEQ ID NO: 2 is selected from ISIS NOs: 399793, 399949, 405867, 405868, or 410743.

In certain embodiments, a target region is nucleotides 2585-2638 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 2585-2638 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 9, 171 or 172. In certain such embodiments, an antisense compound targeted to nucleotides 2585-2638 of SEQ ID NO: 2 is selected from ISIS 25 NOs: 395153, 399875, 410744, or 410745.

In certain embodiments, a target region is nucleotides 2605-2638 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 2605-2638 SEQ ID NO: 30 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 8, 168 or 169. In certain such embodiments, an

antisense compound targeted to nucleotides 2605-2638 of SEQ ID NO: 2 is selected from ISIS NOs: 410745, 395153, or 399875.

In certain embodiments, a target region is nucleotides 3056-3075 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 3056-3075 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 107. In certain such embodiments, an antisense compound targeted to nucleotides 3056-3075 of SEQ ID NO: 2 is selected from ISIS NOs: 399837 or 399993.

In certain embodiments, a target region is nucleotides 4150-5159 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 4150-5159 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 106. In certain such embodiments, an antisense compound targeted to nucleotides 4150-5159 of SEQ ID NO: 2 is selected from ISIS NOs: 399839 or 399995.

In certain embodiments, a target region is nucleotides 4306-4325 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 4306-4325 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 80. In certain such embodiments, an antisense compound targeted to nucleotides 4306-4325 of SEQ ID NO: 2 is selected from ISIS NOs: 399838 or 399994.

In certain embodiments, a target region is nucleotides 5590-5618 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 5590-5618 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 102 or 121. In certain such embodiments, an antisense compound targeted to nucleotides 5590-5618 of SEQ ID NO: 2 is selected from ISIS NOs: 395221, 399840, 399943, or 399996.

In certain embodiments, a target region is nucleotides 5667-5686 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 5667-5686 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 94. In certain such embodiments, an antisense compound targeted to nucleotides 5667-5686 of SEQ ID NO: 2 is selected from ISIS NOs: 399841 or 399997.

In certain embodiments, a target region is nucleotides 6444-6463 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6444-6463 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 176. In certain such embodiments, an antisense
5 compound targeted to nucleotides 6444-6463 of SEQ ID NO: 2 is selected from ISIS NOs: 410746.

In certain embodiments, a target region is nucleotides 6482-6518 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6482-6518 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 10, 177, 178, 179, 180 or 181. In certain such embodiments, an antisense compound targeted to nucleotides 6482-6518 of SEQ ID NO: 2 is selected from ISIS NOs: 395154, 399876, 406003, 406004, 406005, 406006 or 410747.

In certain embodiments, a target region is nucleotides 6492-6518 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6492-6518 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
15 nucleotide sequence selected from SEQ ID NOs: 10, 178, 179, 180 or 181. In certain such embodiments, an antisense compound targeted to nucleotides 6492-6518 of SEQ ID NO: 2 is selected from ISIS NOs: 395154, 399876, 406003, 406004, 406005 or 406006.

In certain embodiments, a target region is nucleotides 6528-6555 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6528-6555 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 182, 183, 184, 185 or 186. In certain such embodiments, an antisense compound targeted to nucleotides 6528-6555 of SEQ ID NO: 2 is selected from ISIS NOs: 406007, 410529, 410530, 410531, 410574, 410575, 410576, 410647,
25 410648, 410649 or 410748.

In certain embodiments, a target region is nucleotides 6528-6623 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6528-6623 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 11, 12, 13, 13, 14, 15, 16, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, or 207. In certain such embodiments, an antisense compound targeted to nucleotides 6528-6623 of SEQ ID NO: 2 is selected from ISIS NOs: 395155, 395156, 395157, 399794, 399795, 399796, 399877, 399878, 399879, 399950, 399951, 399952, 406007, 406008,

406009, 406010, 406011, 406012, 406013, 406014, 406015, 406016, 406017, 406018, 406019,
406020, 410529, 410530, 410531, 410532, 410533, 410534, 410535, 410574, 410575, 410576,
410577, 410578, 410579, 410580, 410581, 410582, 410647, 410648, 410649, 410650, 410651,
410652, 410653, 410654, 410655, 410656, 410657, 410730, 410731, 410748, 410749, or
5 410750.

In certain embodiments, a target region is nucleotides 6534-6561 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 6534-6561 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 11, 184, 185, 186, 187, 188, 189, 190 or 191.

10 In certain such embodiments, an antisense compound targeted to nucleotides 6534-6561 of SEQ
ID NO: 2 is selected from ISIS NOs: 395155, 399877, 406008, 406009, 410529, 410530,
410531, 410532, 410533, 410534, 410574, 410575, 410576, 410577, 410578, 410579, 410580,
410581, 410647, 410648, 410649, 410650, 410651, 410652, 410653, 410654, or 410655.

In certain embodiments, a target region is nucleotides 6535-6562 of SEQ ID NO: 2. In
15 certain embodiments, an antisense compound is targeted to nucleotides 6535-6562 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 11, 12, 185, 186, 187, 188, 189, 190 or 191. In
certain such embodiments, an antisense compound targeted to nucleotides 6535-6562 of SEQ ID
NO: 2 is selected from ISIS NOs: 395155, 399794, 399877, 399950, 406008, 406009, 410530,
20 410531, 410532, 410533, 410534, 410575, 410576, 410577, 410578, 410579, 410580, 410581,
410648, 410649, 410650, 410651, 410652, 410653, 410654, 410655 or 410656.

In certain embodiments, a target region is nucleotides 6536-6563 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 6536-6563 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 11, 12, 186, 187, 188, 189, 190, 191 or 192. In
certain such embodiments, an antisense compound targeted to nucleotides 6536-6563 of SEQ ID
NO: 2 is selected from ISIS NOs: 395155, 399794, 399877, 399950, 406008, 406009, 410531,
410532, 410533, 410534, 410535, 410576, 410577, 410578, 410579, 410580, 410581, 410582,
410649, 410650, 410651, 410652, 410653, 410654, 410655, 410656 or 410657.

30 In certain embodiments, a target region is nucleotides 6537-6563 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 6537-6563 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 11, 12, 187, 188, 189, 190, 191 or 192. In

certain such embodiments, an antisense compound targeted to nucleotides 6537-6563 of SEQ ID NO: 2 is selected from ISIS NOs: 395155, 399794, 399877, 399950, 406008, 406009, 410532, 410533, 410534, 410535, 410577, 410578, 410579, 410580, 410581, 410582, 410650, 410651, 410652, 410653, 410654, 410655, 410656 or 410657.

5 In certain embodiments, a target region is nucleotides 6538-6565 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6538-6565 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 187, 188, 189, 190, 191, 192 or 193. In certain such embodiments, an antisense compound targeted to nucleotides 6538-6565 of SEQ ID
10 NO: 2 is selected from ISIS NOs: 399794, 399950, 406008, 406009, 406010, 410532, 410533, 410534, 410535, 410577, 410578, 410579, 410580, 410581, 410582, 410651, 410652, 410653, 410654, 410655, 410656 or 410657.

In certain embodiments, a target region is nucleotides 6539-6565 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6539-6565 SEQ ID NO:
15 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 188, 189, 190, 191, 192 or 193. In certain such embodiments, an antisense compound targeted to nucleotides 6539-6565 of SEQ ID NO: 2 is selected from ISIS NOs: 399794, 399950, 406008, 406009, 406010, 410533, 410534, 410535, 410578, 410579, 410580, 410581, 410582, 410652, 410653, 410654, 410655, 410656 or 410657.

20 In certain embodiments, a target region is nucleotides 6540-6567 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6540-6567 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 189, 190, 191, 192, 193 or 194. In certain such embodiments, an antisense compound targeted to nucleotides 6540-6567 of SEQ ID NO: 2
25 is selected from ISIS NOs: 399794, 399950, 406009, 406010, 406011, 410533, 410534, 410535, 410579, 410580, 410581, 410582, 410653, 410654, 410655, 410656 or 410657.

In certain embodiments, a target region is nucleotides 6541-6567 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6541-6567 SEQ ID NO:
30 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 190, 191, 192, 193 or 194. In certain such embodiments, an antisense compound targeted to nucleotides 6541-6567 of SEQ ID NO: 2 is selected from ISIS NOs: 399794, 399950, 406009, 406010, 406011, 410534, 410535, 410580, 410581, 410582, 410654, 410655, 410656 or 410657.

In certain embodiments, a target region is nucleotides 6542-6569 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6542-6569 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 12, 191, 192, 193, 194 or 195. In certain such
5 embodiments, an antisense compound targeted to nucleotides 6542-6569 of SEQ ID NO: 2 is selected from ISIS NOs: 399794, 399950, 406010, 406011, 406012, 410534, 410535, 410581, 410582, 410655, 410656 or 410657.

In certain embodiments, a target region is nucleotides 6546-6573 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6546-6573 SEQ ID NO:
10 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 13, 193, 194, 195 or 196. In certain such embodiments, an antisense compound targeted to nucleotides 6546-6573 of SEQ ID NO: 2 is selected from ISIS NOs: 399795, 399951, 406010, 406011, 406012 or 406013.

In certain embodiments, a target region is nucleotides 6557-6584 of SEQ ID NO: 2. In
15 certain embodiments, an antisense compound is targeted to nucleotides 6557-6584 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 14, 197 or 198. In certain such embodiments, an antisense compound targeted to nucleotides 6557-6584 of SEQ ID NO: 2 is selected from ISIS NOs: 395156, 399878, 410749 or 410750.

In certain embodiments, a target region is nucleotides 6575-6602 of SEQ ID NO: 2. In
20 certain embodiments, an antisense compound is targeted to nucleotides 6575-6602 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 15 or 198. In certain such embodiments, an antisense compound targeted to nucleotides 6575-6602 of SEQ ID NO: 2 is selected from ISIS
25 NOs: 395157, 399879 or 410750.

In certain embodiments, a target region is nucleotides 6585-6611 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 6585-6611 SEQ ID NO:
2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 16, 199, 200 or 201. In certain such
30 embodiments, an antisense compound targeted to nucleotides 6585-6611 of SEQ ID NO: 2 is selected from ISIS NOs: 399796, 399952, 406014, 406015 or 406016.

In certain embodiments, a target region is nucleotides 6594-6621 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 6594-6621 SEQ ID NO:

2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 202, 203, 204, 205 or 206. In certain such embodiments, an antisense compound targeted to nucleotides 6594-6621 of SEQ ID NO: 2 is selected from ISIS NOs: 406017, 406018, 406019, 406020 or 410730.

5 In certain embodiments, a target region is nucleotides 6596-6623 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6596-6623 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 203, 204, 205, 206 or 207. In certain such embodiments, an antisense compound targeted to nucleotides 6596-6623 of SEQ ID NO: 2 is selected from ISIS NOs: 406017, 406018, 406019, 406020 or 410731.

10 In certain embodiments, a target region is nucleotides 6652-6671 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 6652-6671 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 108. In certain such embodiments, an antisense compound targeted to nucleotides 6652-6671 of SEQ ID NO: 2 is selected from ISIS NOs: 399842 or 399998.

15 In certain embodiments, a target region is nucleotides 7099-7118 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 7099-7118 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 114. In certain such embodiments, an antisense compound targeted to nucleotides 7099-7118 of SEQ ID NO: 2 is selected from ISIS NOs: 399843 or 399999.

20 In certain embodiments, a target region is nucleotides 7556-7584 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 7556-7584 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 91 or 131. In certain such embodiments, an antisense compound targeted to nucleotides 7556-7584 of SEQ ID NO: 2 is selected from ISIS NOs: 399844, 399845, 400000 or 400001.

25 In certain embodiments, a target region is nucleotides 8836-8855 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 8836-8855 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 145. In certain such embodiments, an antisense

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compound targeted to nucleotides 8836-8855 of SEQ ID NO: 2 is selected from ISIS NOs: 399846 or 400002.

In certain embodiments, a target region is nucleotides 8948-8967 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 8948-8967 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 90. In certain such embodiments, an antisense compound targeted to nucleotides 8948-8967 of SEQ ID NO: 2 is selected from ISIS NOs: 399847 or 400003.

In certain embodiments, a target region is nucleotides 9099-9118 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 9099-9118 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 125. In certain such embodiments, an antisense compound targeted to nucleotides 9099-9118 of SEQ ID NO: 2 is selected from ISIS NOs: 399848 or 400004.

In certain embodiments, a target region is nucleotides 9099-9168 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 9099-9168 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 17, 125 or 209. In certain such embodiments, an antisense compound targeted to nucleotides 9099-9168 of SEQ ID NO: 2 is selected from ISIS NOs: 395158, 399848, 399880, 400004 or 410752.

In certain embodiments, a target region is nucleotides 9130-9168 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 9130-9168 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 17. In certain such embodiments, an antisense compound targeted to nucleotides 9130-9168 of SEQ ID NO: 2 is selected from ISIS NOs: 395158 or 399880.

In certain embodiments, a target region is nucleotides 9207-9233 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 9207-9233 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 18, 210, 211, 212 or 213. In certain such embodiments, an antisense compound targeted to nucleotides 9207-9233 of SEQ ID NO: 2 is selected from ISIS NOs: 395159, 399881, 406021, 406022, 406023 or 406024.

In certain embodiments, a target region is nucleotides 9207-9235 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 9207-9235 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 18, 210, 211, 212, 213 or 214. In certain such
5 embodiments, an antisense compound targeted to nucleotides 9207-9235 of SEQ ID NO: 2 is selected from ISIS NOs: 395159, 399881, 406021, 406022, 406023, 406024 or 410732.

In certain embodiments, a target region is nucleotides 9209-9235 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 9209-9235 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 18, 211, 212, 213 or 214. In certain such embodiments, an antisense compound targeted to nucleotides 9209-9235 of SEQ ID NO: 2 is selected from ISIS NOs: 395159, 399881, 406022, 406023, 406024 or 410732.

In certain embodiments, a target region is nucleotides 10252-10271 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 10252-10271 SEQ ID
15 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 148. In certain such embodiments, an antisense compound targeted to nucleotides 10252-10271 of SEQ ID NO: 2 is selected from ISIS NOs: 399849 or 400005.

In certain embodiments, a target region is nucleotides 10633-10652 of SEQ ID NO: 2. In
20 certain embodiments, an antisense compound is targeted to nucleotides 10633-10652 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 127. In certain such embodiments, an antisense compound targeted to nucleotides 10633-10652 of SEQ ID NO: 2 is selected from ISIS NOs: 395222 or 399944.

In certain embodiments, a target region is nucleotides 11308-11491 of SEQ ID NO: 2. In
25 certain embodiments, an antisense compound is targeted to nucleotides 11308-11491 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 79 or 84. In certain such embodiments, an antisense compound targeted to nucleotides 11308-11491 of SEQ ID NO: 2 is
30 selected from ISIS NOs: 395223, 399850, 399945 or 400006.

In certain embodiments, a target region is nucleotides 12715-12734 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 12715-12734 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 88. In certain such embodiments, an antisense compound targeted to nucleotides 12715-12734 of SEQ ID NO: 2 is selected from ISIS NOs: 399851 or 400007.

5 In certain embodiments, a target region is nucleotides 12928-12947 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 12928-12947 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 111. In certain such embodiments, an antisense compound targeted to nucleotides 12928-12947 of SEQ ID NO: 2 is selected from ISIS NOs: 399852 or 400008.

10 In certain embodiments, a target region is nucleotides 13681-13700 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 13681-13700 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 85. In certain such embodiments, an antisense compound targeted to nucleotides 13681-13700 of SEQ ID NO: 2 is selected from
15 ISIS NOs: 395201 or 399923.

In certain embodiments, a target region is nucleotides 13746-13779 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 13746-13779 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 100 or 116. In certain such
20 embodiments, an antisense compound targeted to nucleotides 13746-13779 of SEQ ID NO: 2 is selected from ISIS NOs: 399827, 399828, 399983 or 399984.

In certain embodiments, a target region is nucleotides 13816-13847 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 13816-13847 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
25 comprises a nucleotide sequence selected from SEQ ID NOs: 117 or 129. In certain such embodiments, an antisense compound targeted to nucleotides 13816-13847 of SEQ ID NO: 2 is selected from ISIS NOs: 395202, 399829, 399924 or 399985.

In certain embodiments, a target region is nucleotides 13903-13945 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 13903-13945 SEQ ID
30 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 81 or 110. In certain such embodiments, an antisense compound targeted to nucleotides 13903-13945 of SEQ ID NO: 2 is selected from ISIS NOs: 395203, 399830, 399925 or 399986.

In certain embodiments, a target region is nucleotides 13977-14141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 13977-14141 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 83, 136, 137, 140 or 152. In certain such embodiments, an antisense compound targeted to nucleotides 13977-14141 of SEQ ID NO: 2 is selected from ISIS NOs: 395204, 395205, 395206, 399831, 399832, 399926, 399927, 399928, 399987 or 399988.

In certain embodiments, a target region is nucleotides 14179-14198 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14179-14198 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 132. In certain such embodiments, an antisense compound targeted to nucleotides 14179-14198 of SEQ ID NO: 2 is selected from ISIS NOs: 395207 or 399929.

In certain embodiments, a target region is nucleotides 14267-14286 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14267-14286 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 139. In certain such embodiments, an antisense compound targeted to nucleotides 14267-14286 of SEQ ID NO: 2 is selected from ISIS NOs: 395208 or 399930.

In certain embodiments, a target region is nucleotides 14397-14423 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14397-14423 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 92 or 142. In certain such embodiments, an antisense compound targeted to nucleotides 14397-14423 of SEQ ID NO: 2 is selected from ISIS NOs: 395209, 399833, 399931 or 399989.

In certain embodiments, a target region is nucleotides 14441-14460 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14441-14460 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 113. In certain such embodiments, an antisense compound targeted to nucleotides 14441-14460 of SEQ ID NO: 2 is selected from ISIS NOs: 395210 or 399932.

In certain embodiments, a target region is nucleotides 14494-14513 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14494-14513 SEQ ID

NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 138. In certain such embodiments, an antisense compound targeted to nucleotides 14494-14513 of SEQ ID NO: 2 is selected from ISIS NOs: 395211 or 399933.

5 In certain embodiments, a target region is nucleotides 14494-14543 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14494-14543 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 98 or 138. In certain such embodiments, an antisense compound targeted to nucleotides 14494-14543 of SEQ ID NO: 2 is
10 selected from ISIS NOs: 395211, 395212, 399933 or 399934.

In certain embodiments, a target region is nucleotides 14524-14543 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14524-14543 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 98. In certain such embodiments,
15 an antisense compound targeted to nucleotides 14524-14543 of SEQ ID NO: 2 is selected from ISIS NOs: 395212 or 399934.

In certain embodiments, a target region is nucleotides 14601-14650 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14601-14650 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
20 comprises a nucleotide sequence selected from SEQ ID NOs: 96 or 124. In certain such embodiments, an antisense compound targeted to nucleotides 14601-14650 of SEQ ID NO: 2 is selected from ISIS NOs: 395213, 395214, 399935 or 399936.

In certain embodiments, a target region is nucleotides 14670-14700 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14670-14700 SEQ ID
25 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 82, 103 or 133. In certain such embodiments, an antisense compound targeted to nucleotides 14670-14700 of SEQ ID NO: 2 is selected from ISIS NOs: 395215, 395216, 399834, 399937, 399938 or 399990.

In certain embodiments, a target region is nucleotides 14675-14700 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14675-14700 SEQ ID
30 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 103 or 133. In certain such

embodiments, an antisense compound targeted to nucleotides 14675-14700 of SEQ ID NO: 2 is selected from ISIS NOs: 395215, 395216, 399937 or 399938.

In certain embodiments, a target region is nucleotides 14801-14828 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14801-14828 SEQ ID
5 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 155 or 156. In certain such embodiments, an antisense compound targeted to nucleotides 14801-14828 of SEQ ID NO: 2 is selected from ISIS NOs: 395217, 399835, 399939 or 399991.

In certain embodiments, a target region is nucleotides 14877-14912 of SEQ ID NO: 2. In
10 certain embodiments, an antisense compound is targeted to nucleotides 14877-14912 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 19, 215, 216 or 217. In certain such embodiments, an antisense compound targeted to nucleotides 14877-14912 of SEQ ID NO: 2 is selected from ISIS NOs: 395160, 399882, 406025, 406026 or 410753.

In certain embodiments, a target region is nucleotides 14877-14915 of SEQ ID NO: 2. In
15 certain embodiments, an antisense compound is targeted to nucleotides 14877-14915 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 19, 20, 215, 216 or 217. In certain such embodiments, an antisense compound targeted to nucleotides 14877-14915 of SEQ ID NO:
20 2 is selected from ISIS NOs: 395160, 399797, 399882, 399953, 406025, 406026 or 410753.

In certain embodiments, a target region is nucleotides 14877-14973 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 14877-14973 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 19, 20, 21, 22, 23, 24, 215, 216,
25 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, or 233. In
certain such embodiments, an antisense compound targeted to nucleotides 14877-14973 of SEQ
ID NO: 2 is selected from ISIS NOs: 395160, 395161, 395162, 399797, 399798, 399799,
399882, 399883, 399884, 399953, 399954, 399955, 405869, 405870, 405871, 405872, 405873,
405874, 405875, 405876, 406025, 406026, 406027, 406028, 406029, 406030, 406031, 406032,
30 410733, 410753, or 410754.

In certain embodiments, a target region is nucleotides 14916-14943 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 14916-14943 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 21, 22, 218, 219, 220, 221, 222 or 223. In certain such embodiments, an antisense compound targeted to nucleotides 14916-14943 of SEQ ID NO: 2 is selected from ISIS NOs: 395161, 399798, 399883, 399954, 405869, 405870, 405871, 405872, 405873 or 405874.

5 In certain embodiments, a target region is nucleotides 14916-14973 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14916-14973 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 21, 22, 23, 24, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, or 223. In certain such embodiments, an
10 antisense compound targeted to nucleotides 14916-14973 of SEQ ID NO: 2 is selected from ISIS NOs: 395161, 395162, 399798, 399799, 399883, 399884, 399954, 399955, 405869, 405870, 405871, 405872, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 406030, 406031, 406032, 410733, or 410754.

 In certain embodiments, a target region is nucleotides 14925-14951 of SEQ ID NO: 2. In
15 certain embodiments, an antisense compound is targeted to nucleotides 14925-14951 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 224, 225, 226 or 227. In certain such embodiments, an antisense compound targeted to nucleotides 14925-14951 of SEQ ID NO: 2 is selected from ISIS NOs: 405875, 405876, 406027 or 406028.

20 In certain embodiments, a target region is nucleotides 14934-14963 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14934-14963 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 23, 228, 229, 230, 231 or 232. In certain such embodiments, an antisense compound targeted to nucleotides 14934-14963 of SEQ
25 ID NO: 2 is selected from ISIS NOs: 399799, 399955, 406029, 406030, 406031, 406032 or 410733.

 In certain embodiments, a target region is nucleotides 14946-14973 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 14946-14973 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
30 comprises a nucleotide sequence selected from SEQ ID NOs: 24 or 233. In certain such
embodiments, an antisense compound targeted to nucleotides 14946-14973 of SEQ ID NO: 2 is
selected from ISIS NOs: 395162, 399884 or 410754.

In certain embodiments, a target region is nucleotides 14979-14998 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 14979-14998 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 25. In certain such embodiments, an antisense compound targeted to nucleotides 14979-14998 of SEQ ID NO: 2 is selected from ISIS NOs: 395163 or 399885.

In certain embodiments, a target region is nucleotides 15254-15280 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15254-15280 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 235, 236 or 237. In certain such embodiments, an antisense compound targeted to nucleotides 15254-15280 of SEQ ID NO: 2 is selected from ISIS NOs: 405526, 405604, 406033 or 410756.

In certain embodiments, a target region is nucleotides 15254-15328 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15254-15328 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 26, 27, 28, 235, 236, 237, 238, 239, 240, 241, 242, 243, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15254-15328 of SEQ ID NO: 2 is selected from ISIS NOs: 395164, 395165, 399800, 399886, 399887, 399956, 405526, 405604, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 406033, 406034, 406035, 406036, 406037, 406038, 409126, 410536, 410537, 410538, 410539, 410583, 410584, 410585, 410586, 410587, 410588, 410589, 410590, 410591, 410592, 410593, 410594, 410595, 410658, 410659, 410660, 410661, 410662, 410663, 410664, 410665, 410666, 410667, 410668, 410669, 410670, 410671, 410756, 410757, or 410758.

In certain embodiments, a target region is nucleotides 15264-15290 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15264-15290 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 26, 27, 238 or 239. In certain such embodiments, an antisense compound targeted to nucleotides 15264-15290 of SEQ ID NO: 2 is selected from ISIS NOs: 395164, 399800, 399886, 399956, 406034, or 406035.

In certain embodiments, a target region is nucleotides 15279-15305 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15279-15305 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 240, 241 or 242. In certain such embodiments, an antisense compound targeted to nucleotides 15279-15305 of SEQ ID NO: 2 is selected from ISIS NOs: 406036, 406037, or 410757.

In certain embodiments, a target region is nucleotides 15291-15318 of SEQ ID NO: 2. In
5 certain embodiments, an antisense compound is targeted to nucleotides 15291-15318 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 28, 243, 244, 245, 246, 247, 248,
249, 250, or 447. In certain such embodiments, an antisense compound targeted to nucleotides
15291-15318 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405877, 405878,
10 405879, 405880, 405881, 406038, 409126, 410536, 410537, 410583, 410584, 410585, 410586,
410587, 410588, 410589, 410590, 410658, 410659, 410660, 410661, 410662, 410663, 410664,
410665, or 410666.

In certain embodiments, a target region is nucleotides 15292-15319 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 15292-15319 SEQ ID
15 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 28, 244, 245, 246, 247, 248, 249,
250 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15292-
15319 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405877, 405878, 405879,
405880, 405881, 406038, 409126, 410537, 410584, 410585, 410586, 410587, 410588, 410589,
20 410590, 410659, 410660, 410661, 410662, 410663, 410664, 410665, or 410666.

In certain embodiments, a target region is nucleotides 15293-15320 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 15293-15320 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 28, 245, 246, 247, 248, 249, 250,
25 251, 252 or 447. In certain such embodiments, an antisense compound targeted to nucleotides
15293-15320 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405877, 405878,
405879, 405880, 405881, 405882, 405883, 406038, 409126, 410585, 410586, 410587, 410588,
410589, 410590, 410591, 410592, 410660, 410661, 410662, 410663, 410664, 410665, 410666,
410667, or 410668.

30 In certain embodiments, a target region is nucleotides 15294-15321 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 15294-15321 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 28, 246, 247, 248, 249, 250, 251,

252, 253 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15294-15321 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 409126, 410586, 410587, 410588, 410589, 410590, 410591, 410592, 410593, 410661, 410662, 410663, 410664, 410665, 410666, 410667, 5 410668 or 410669.

In certain embodiments, a target region is nucleotides 15294-15321 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15294-15321 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 246, 247, 248, 249, 250, 251, 10 252, 253 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15294-15321 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 409126, 410586, 410587, 410588, 410589, 410590, 410591, 410592, 410593, 410661, 410662, 410663, 410664, 410665, 410666, 410667, 410668 or 410669.

15 In certain embodiments, a target region is nucleotides 15295-15322 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15295-15322 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 247, 248, 249, 250, 250, 251, 252, 253, 254 or 447. In certain such embodiments, an antisense compound targeted to 20 nucleotides 15295-15322 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 409126, 410538, 410587, 410588, 410589, 410590, 410591, 410592, 410593, 410594, 410662, 410663, 410664, 410665, 410666, 410667, 410668, 410669 or 410670.

In certain embodiments, a target region is nucleotides 15296-15323 of SEQ ID NO: 2. In 25 certain embodiments, an antisense compound is targeted to nucleotides 15296-15323 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 248, 249, 250, 251, 252, 253, 254, 255 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15296-15323 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405879, 405880, 30 405881, 405882, 405883, 405884, 409126, 410538, 410539, 410588, 410589, 410590, 410591, 410592, 410593, 410594, 410595, 410663, 410664, 410665, 410666, 410667, 410668, 410669, 410670 or 410671.

In certain embodiments, a target region is nucleotides 15297-15323 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15297-15323 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 249, 250, 251, 252, 253, 254, 5 255 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15297-15323 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405880, 405881, 405882, 405883, 405884, 409126, 410538, 410539, 410589, 410590, 410591, 410592, 410593, 410594, 410595, 410664, 410665, 410666, 410667, 410668, 410669, 410670 or 410671.

In certain embodiments, a target region is nucleotides 15298-15323 of SEQ ID NO: 2. In 10 certain embodiments, an antisense compound is targeted to nucleotides 15298-15323 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 250, 251, 252, 253, 254, 255 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 15298-15323 of SEQ ID NO: 2 is selected from ISIS NOs: 395165, 399887, 405881, 405882, 405883, 405884, 15 409126, 410538, 410539, 410590, 410591, 410592, 410593, 410594, 410595, 410665, 410666, 410667, 410668, 410669, 410670 or 410671.

In certain embodiments, a target region is nucleotides 15299-15323 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15299-15323 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid 20 comprises a nucleotide sequence selected from SEQ ID NOs: 250, 251, 252, 253, 254 or 255. In certain such embodiments, an antisense compound targeted to nucleotides 15299-15323 of SEQ ID NO: 2 is selected from ISIS NOs: 405881, 405882, 405883, 405884, 410538, 410539, 410590, 410591, 410592, 410593, 410594, 410595, 410666, 410667, 410668, 410669, 410670 or 410671.

25 In certain embodiments, a target region is nucleotides 15300-15323 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15300-15323 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 251, 252, 253, 254 or 255. In certain such embodiments, an antisense compound targeted to nucleotides 15300-15323 of SEQ 30 ID NO: 2 is selected from ISIS NOs: 405882, 405883, 405884, 410538, 410539, 410591, 410592, 410593, 410594, 410595, 410667, 410668, 410669, 410670 or 410671.

In certain embodiments, a target region is nucleotides 15301-15328 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15301-15328 SEQ ID

NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 252, 253, 254, 255 or 256. In certain such embodiments, an antisense compound targeted to nucleotides 15301-15328 of SEQ ID NO: 2 is selected from ISIS NOs: 405883, 405884, 410538, 410539, 410592, 410593,
5 410594, 410595, 410668, 410669, 410670, 410671 or 410758.

In certain embodiments, a target region is nucleotides 15330-15355 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15330-15355 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 29, 257, 258 or 259. In certain
10 such embodiments, an antisense compound targeted to nucleotides 15330-15355 of SEQ ID NO: 2 is selected from ISIS NOs: 395166, 399888, 406039, 406040 or 406041.

In certain embodiments, a target region is nucleotides 15330-15490 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 15330-15490 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
15 comprises a nucleotide sequence selected from SEQ ID NOs: 29, 30, 86, 257, 258, 259, 260, 261, 262 or 263. In certain such embodiments, an antisense compound targeted to nucleotides 15330-15490 of SEQ ID NO: 2 is selected from ISIS NOs: 395166, 399801, 399853, 399888, 399957, 400009, 406039, 406040, 406041, 406042, 406043, 406044 or 410759.

In certain embodiments, a target region is nucleotides 15339-15366 of SEQ ID NO: 2. In
20 certain embodiments, an antisense compound is targeted to nucleotides 15339-15366 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 30, 260, 261 or 262. In certain such embodiments, an antisense compound targeted to nucleotides 15339-15366 of SEQ ID NO: 2 is selected from ISIS NOs: 399801, 399957, 406042, 406043 or 406044.

In certain embodiments, a target region is nucleotides 15358-15490 of SEQ ID NO: 2. In
25 certain embodiments, an antisense compound is targeted to nucleotides 15358-15490 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 86 or 263. In certain such
embodiments, an antisense compound targeted to nucleotides 15358-15490 of SEQ ID NO: 2 is
30 selected from ISIS NOs: 399853, 400009 or 410759.

In certain embodiments, a target region is nucleotides 16134-16153 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 16134-16153 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 97. In certain such embodiments, an antisense compound targeted to nucleotides 16134-16153 of SEQ ID NO: 2 is selected from ISIS NOs: 399854 or 400010.

5 In certain embodiments, a target region is nucleotides 16668-16687 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 16668-16687 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 120. In certain such embodiments, an antisense compound targeted to nucleotides 16668-16687 of SEQ ID NO: 2 is selected from ISIS NOs: 399855 or 400011.

10 In certain embodiments, a target region is nucleotides 17267-17286 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 17267-17286 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 150. In certain such embodiments, an antisense compound targeted to nucleotides 17267-17286 of SEQ ID NO: 2 is selected from
15 ISIS NOs: 399856 or 400012.

In certain embodiments, a target region is nucleotides 18377-18427 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18377-18427 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 115 or 134. In certain such
20 embodiments, an antisense compound targeted to nucleotides 18377-18427 of SEQ ID NO: 2 is selected from ISIS NOs: 399857, 399858, 400013 or 400014.

In certain embodiments, a target region is nucleotides 18561-18580 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18561-18580 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
25 comprises a nucleotide sequence selected from SEQ ID NOs: 157. In certain such embodiments, an antisense compound targeted to nucleotides 18561-18580 of SEQ ID NO: 2 is selected from ISIS NOs: 395224 or 399946.

In certain embodiments, a target region is nucleotides 18591-18618 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18591-18618 SEQ ID
30 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 32, 266, 267, 268 or 269. In certain such embodiments, an antisense compound targeted to nucleotides 18591-18618 of SEQ ID NO: 2 is selected from ISIS NOs: 395168, 399890, 405909, 405910, 405911 or 406045.

In certain embodiments, a target region is nucleotides 18591-18646 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18591-18646 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 32, 32, 266, 267, 268, 269, 270, 5 271 or 272. In certain such embodiments, an antisense compound targeted to nucleotides 18591-18646 of SEQ ID NO: 2 is selected from ISIS NOs: 395168, 399890, 405909, 405910, 405911, 405912, 406045, 410761 or 410762.

In certain embodiments, a target region is nucleotides 18591-18668 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18591-18668 SEQ ID 10 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 32, 266, 267, 268, 269, 270, 271, 272 or 273. In certain such embodiments, an antisense compound targeted to nucleotides 18591-18668 of SEQ ID NO: 2 is selected from ISIS NOs: 395168, 399890, 405909, 405910, 405911, 405912, 406045, 410761, 410762 or 410763.

15 In certain embodiments, a target region is nucleotides 18695-18746 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18695-18746 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 33, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284 or 285. In certain such embodiments, an antisense compound targeted to 20 nucleotides 18695-18746 of SEQ ID NO: 2 is selected from ISIS NOs: 395169, 399891, 405913, 405914, 405915, 405916, 405917, 405918, 405919, 405920, 405921, 405922, 410734 or 410764.

In certain embodiments, a target region is nucleotides 18705-18730 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18705-18730 SEQ ID 25 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 33, 275, 276 or 277. In certain such embodiments, an antisense compound targeted to nucleotides 18705-18730 of SEQ ID NO: 2 is selected from ISIS NOs: 395169, 399891, 405913, 405914 or 405915.

In certain embodiments, a target region is nucleotides 18709-18736 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18709-18736 SEQ ID 30 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 276, 277, 278, 279 or 280. In certain such embodiments, an antisense compound targeted to nucleotides 18709-18736 of SEQ ID NO: 2 is selected from ISIS NOs: 405914, 405915, 405916, 405917 or 410734.

In certain embodiments, a target region is nucleotides 18719-18746 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 18719-18746 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 281, 282, 283, 284 or 285. In certain such embodiments, an antisense compound targeted to nucleotides 18719-18746 of SEQ ID NO: 2 is selected from ISIS NOs: 405918, 405919, 405920, 405921 or 405922.

In certain embodiments, a target region is nucleotides 19203-20080 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19203-20080 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 34, 35, 36, 37, 38, 39, 40, 41, 105, 128, 149, 151, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317 or 318. In certain such embodiments, an antisense compound targeted to nucleotides 19203-20080 of SEQ ID NO: 2 is selected from ISIS NOs: 395170, 395171, 395172, 395173, 395174, 395175, 399802, 399803, 399804, 399805, 399859, 399860, 399892, 399893, 399894, 399895, 399896, 399897, 399958, 399959, 399960, 399961, 400015, 400016, 405923, 405924, 405925, 405926, 405927, 405928, 405929, 405930, 405931, 405932, 405933, 405934, 405935, 405936, 405937, 405938, 405939, 405940, 405941, 405942, 405943, 405944, 405945, 405946, 405947, 410735, 410736, 410737, 410767, 410768 or 410769.

In certain embodiments, a target region is nucleotides 19931-19952 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19931-19952 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 149 or 188. In certain such embodiments, an antisense compound targeted to nucleotides 19931-19952 of SEQ ID NO: 2 is selected from ISIS NOs: 395170, 399892 or 405923.

In certain embodiments, a target region is nucleotides 19954-19981 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19954-19981 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 34, 290, 291, 292 or 293. In certain such embodiments, an antisense compound targeted to nucleotides 19954-19981 of SEQ ID NO: 2 is selected from ISIS NOs: 395171, 399893, 405924, 405925, 405926 or 410735.

In certain embodiments, a target region is nucleotides 19964-19990 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19964-19990 SEQ ID

NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 35, 128, 128, 294 or 295. In certain such embodiments, an antisense compound targeted to nucleotides 19964-19990 of SEQ ID NO: 2 is selected from ISIS NOs: 395172, 399802, 399894, 399958, 405927 or 405928.

5 In certain embodiments, a target region is nucleotides 19973-19999 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19973-19999 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 36, 296, 297 or 298. In certain such embodiments, an antisense compound targeted to nucleotides 19973-19999 of SEQ ID NO:
10 2 is selected from ISIS NOs: 395173, 399895, 405929, 405930 or 405931.

In certain embodiments, a target region is nucleotides 19982-20009 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19982-20009 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 37, 299, 300, 301 or 302. In
15 certain such embodiments, an antisense compound targeted to nucleotides 19982-20009 of SEQ ID NO: 2 is selected from ISIS NOs: 399803, 399959, 405932, 405933, 405934 or 405935.

In certain embodiments, a target region is nucleotides 19992-20016 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 19992-20016 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
20 comprises a nucleotide sequence selected from SEQ ID NOs: 38, 303 or 304. In certain such embodiments, an antisense compound targeted to nucleotides 19992-20016 of SEQ ID NO: 2 is selected from ISIS NOs: 395174, 399896, 405936 or 410736.

In certain embodiments, a target region is nucleotides 20016-20042 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20016-20042 SEQ ID
25 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 305 or 306. In certain such embodiments, an antisense compound targeted to nucleotides 20016-20042 of SEQ ID NO: 2 is selected from ISIS NOs: 405937 or 410768.

In certain embodiments, a target region is nucleotides 20025-20052 of SEQ ID NO: 2. In
30 certain embodiments, an antisense compound is targeted to nucleotides 20025-20052 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 39, 307, 308, 309 or 310. In

certain such embodiments, an antisense compound targeted to nucleotides 20025-20052 of SEQ ID NO: 2 is selected from ISIS NOs: 395175, 399897, 405938, 405939, 405940 or 405941.

In certain embodiments, a target region is nucleotides 20036-20062 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20036-20062 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 40, 311, 312, 313 or 314. In certain such embodiments, an antisense compound targeted to nucleotides 20036-20062 of SEQ ID NO: 2 is selected from ISIS NOs: 399804, 399960, 405942, 405943, 405944 or 410737.

In certain embodiments, a target region is nucleotides 20045-20070 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20045-20070 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 41, 315, 316 or 317. In certain such embodiments, an antisense compound targeted to nucleotides 20045-20070 of SEQ ID NO: 2 is selected from ISIS NOs: 399805, 399961, 405945, 405946 or 405947.

In certain embodiments, a target region is nucleotides 20100-20119 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20100-20119 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 158. In certain such embodiments, an antisense compound targeted to nucleotides 20100-20119 of SEQ ID NO: 2 is selected from ISIS NOs: 399861 or 400017.

In certain embodiments, a target region is nucleotides 20188-20207 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20188-20207 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 109. In certain such embodiments, an antisense compound targeted to nucleotides 20188-20207 of SEQ ID NO: 2 is selected from ISIS NOs: 399862 or 400018.

In certain embodiments, a target region is nucleotides 20624-20650 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20624-20650 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 141, 320 or 321. In certain such embodiments, an antisense compound targeted to nucleotides 20624-20650 of SEQ ID NO: 2 is selected from ISIS NOs: 399863, 400019, 405949 or 405950.

In certain embodiments, a target region is nucleotides 20624-20759 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20624-20759 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 43, 44, 45, 46, 47, 48, 49, 50, 51, 5 87, 141, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358 or 359. In certain such embodiments, an antisense compound targeted to nucleotides 20624-20759 of SEQ ID NO: 2 is selected from ISIS NOs: 395177, 395178, 395179, 399807, 399808, 399809, 399810, 399811, 399812, 399813, 399863, 399899, 399900, 399901, 10 399963, 399964, 399965, 399966, 399967, 399968, 399969, 400019, 405557, 405885, 405886, 405887, 405888, 405889, 405890, 405891, 405892, 405949, 405950, 405951, 405952, 405953, 405954, 405955, 405956, 405957, 405958, 405959, 405960, 405961, 405962, 405963, 405964, 405965, 405966, 405967, 405968, 405969, 405970, 405971, 405972, 405973, 405974, 408653, 410540, 410596, 410597, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410672, 15 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680, 410681, 410682, 410738, 410739, 410740 or 410770.

In certain embodiments, a target region is nucleotides 20629-20804 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20629-20804 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid 20 comprises a nucleotide sequence selected from SEQ ID NOs: 43, 44, 45, 46, 47, 48, 49, 50, 51, 87, 119, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 356, 357, 358, 359 or 360. In certain such embodiments, an antisense compound targeted to nucleotides 20629-20804 of SEQ ID NO: 2 is selected from ISIS NOs: 395177, 395178, 395179, 25 395180, 399807, 399808, 399809, 399810, 399811, 399812, 399813, 399899, 399900, 399901, 399902, 399963, 399964, 399965, 399966, 399967, 399968, 399969, 405557, 405885, 405886, 405887, 405888, 405889, 405890, 405891, 405892, 405949, 405950, 405951, 405952, 405953, 405954, 405955, 405956, 405957, 405958, 405959, 405960, 405961, 405962, 405963, 405964, 405965, 405966, 405967, 405968, 405969, 405970, 405971, 405972, 405973, 405974, 408653, 30 410540, 410596, 410597, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410672, 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680, 410681, 410682, 410738, 410739, 410740, 410770 or 410771.

In certain embodiments, a target region is nucleotides 20633-20660 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20633-20660 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 43, 322, 323, 324 or 325. In certain such embodiments, an antisense compound targeted to nucleotides 20633-20660 of SEQ ID NO: 2 is selected from ISIS NOs: 399807, 399963, 405951, 405952, 405953 or 410738.

In certain embodiments, a target region is nucleotides 20635-20781 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20635-20781 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 43, 44, 45, 46, 47, 48, 49, 50, 51, 87, 119, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358 or 359. In certain such embodiments, an antisense compound targeted to nucleotides 20635-20781 of SEQ ID NO: 2 is selected from ISIS NOs: 395177, 395178, 395179, 395180, 399807, 399808, 399809, 399810, 399811, 399812, 399813, 399899, 399900, 399901, 399902, 399963, 399964, 399965, 399966, 399967, 399968, 399969, 405557, 405885, 405886, 405887, 405888, 405889, 405890, 405891, 405892, 405952, 405953, 405954, 405955, 405956, 405957, 405958, 405959, 405960, 405961, 405962, 405963, 405964, 405965, 405966, 405967, 405968, 405969, 405970, 405971, 405972, 405973, 405974, 408653, 410540, 410596, 410597, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410672, 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680, 410681, 410682, 410738, 410739, 410740 or 410770.

In certain embodiments, a target region is nucleotides 20643-20662 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20643-20662 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 326. In certain such embodiments, an antisense compound targeted to nucleotides 20643-20662 of SEQ ID NO: 2 is selected from ISIS NOs: 405954.

In certain embodiments, a target region is nucleotides 20657-20676 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20657-20676 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 327. In certain such embodiments, an antisense compound targeted to nucleotides 20657-20676 of SEQ ID NO: 2 is selected from ISIS NOs: 410770.

In certain embodiments, a target region is nucleotides 20670-20697 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20670-20697 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 328, 329, 330, 331 or 332. In certain such embodiments, an antisense compound targeted to nucleotides 20670-20697 of SEQ ID NO: 2 is selected from ISIS NOs: 405955, 405956, 405957, 405958 or 405959.

In certain embodiments, a target region is nucleotides 20680-20706 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20680-20706 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 44, 333, 334, 335 or 336. In certain such embodiments, an antisense compound targeted to nucleotides 20680-20706 of SEQ ID NO: 2 is selected from ISIS NOs: 399808, 399964, 405960, 405961, 405962 or 410739.

In certain embodiments, a target region is nucleotides 20683-20781 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20683-20781 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 44, 45, 46, 47, 48, 49, 50, 51, 87, 119, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358 or 359. In certain such embodiments, an antisense compound targeted to nucleotides 20683-20781 of SEQ ID NO: 2 is selected from ISIS NOs: 395177, 395178, 395179, 395180, 399808, 399809, 399810, 399811, 399812, 399813, 399899, 399900, 399901, 399902, 399964, 399965, 399966, 399967, 399968, 399969, 405557, 405885, 405886, 405887, 405888, 405889, 405890, 405891, 405892, 405962, 405963, 405964, 405965, 405966, 405967, 405968, 405969, 405970, 405971, 405972, 405973, 405974, 408653, 410540, 410596, 410597, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410672, 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680, 410681, 410682, 410739 or 410740.

In certain embodiments, a target region is nucleotides 20689-20715 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20689-20715 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 45, 46, 337 or 338. In certain such embodiments, an antisense compound targeted to nucleotides 20689-20715 of SEQ ID NO: 2 is selected from ISIS NOs: 395177, 399809, 399899, 399965, 405963 or 405964.

In certain embodiments, a target region is nucleotides 20698-20725 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20698-20725 SEQ ID

NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 47, 47, 339, 340, 341 or 342. In certain such embodiments, an antisense compound targeted to nucleotides 20698-20725 of SEQ ID NO: 2 is selected from ISIS NOs: 399810, 399966, 405965, 405966, 405967 or 405968.

5 In certain embodiments, a target region is nucleotides 20709-20736 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20709-20736 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 48, 48, 343, 344, 345 or 346. In certain such embodiments, an antisense compound targeted to nucleotides 20709-20736 of SEQ
10 ID NO: 2 is selected from ISIS NOs: 399811, 399967, 405885, 405969, 405970 or 410740.

In certain embodiments, a target region is nucleotides 20717-20744 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20717-20744 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 346, 347, 348, 349, 350, 351,
15 352 or 353. In certain such embodiments, an antisense compound targeted to nucleotides 20717-20744 of SEQ ID NO: 2 is selected from ISIS NOs: 399812, 399968, 405885, 405886, 405887, 405888, 405889, 405890, 405891, 405892, 410596, 410597, 410598, 410599, 410600, 410601, 410672, 410673, 410674, 410675, 410676, 410677 or 410678.

In certain embodiments, a target region is nucleotides 20718-20745 of SEQ ID NO: 2. In
20 certain embodiments, an antisense compound is targeted to nucleotides 20718-20745 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 347, 348, 349, 350, 351, 352 or 353. In certain such embodiments, an antisense compound targeted to nucleotides 20718-20745 of SEQ ID NO: 2 is selected from ISIS NOs: 395178, 399812, 399900, 399968, 405557,
25 405886, 405887, 405888, 405889, 405890, 405891, 405892, 410596, 410597, 410598, 410599, 410600, 410601, 410672, 410673, 410674, 410675, 410676, 410677, 410678 or 410679.

In certain embodiments, a target region is nucleotides 20719-20746 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20719-20746 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
30 comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 348, 349, 350, 351, 352, 353 or 354. In certain such embodiments, an antisense compound targeted to nucleotides 20719-20746 of SEQ ID NO: 2 is selected from ISIS NOs: 395178, 399812, 399900, 399968, 405557, 405887, 405888, 405889, 405890, 405891, 405892, 408653, 410596, 410597, 410598, 410599,

410600, 410601, 410602, 410672, 410673, 410674, 410675, 410676, 410677, 410678, 410679 or 410680.

In certain embodiments, a target region is nucleotides 20720-20747 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20720-20747 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 349, 350, 351, 352, 353, 354 or 355. In certain such embodiments, an antisense compound targeted to nucleotides 20720-20747 of SEQ ID NO: 2 is selected from ISIS NOs: 395178, 399812, 399900, 399968, 405557, 405888, 405889, 405890, 405891, 405892, 405971, 408653, 410597, 410598, 410599, 410600, 10 410601, 410602, 410603, 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680 or 410681.

In certain embodiments, a target region is nucleotides 20721-20748 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20721-20748 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 350, 351, 352, 353, 354, 15 355 or 356. In certain such embodiments, an antisense compound targeted to nucleotides 20721-20748 of SEQ ID NO: 2 is selected from ISIS NOs: 395178, 399812, 399900, 399968, 405557, 405889, 405890, 405891, 405892, 405971, 408653, 410540, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410674, 410675, 410676, 410677, 410678, 410679, 410680, 410681 or 20 410682.

In certain embodiments, a target region is nucleotides 20722-20749 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20722-20749 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 50, 350, 351, 352, 353, 354, 355, 25 356 or 357. In certain such embodiments, an antisense compound targeted to nucleotides 20722-20749 of SEQ ID NO: 2 is selected from ISIS NOs: 395178, 399900, 405557, 405889, 405890, 405891, 405892, 405971, 405972, 408653, 410540, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410675, 410676, 410677, 410678, 410679, 410680, 410681 or 410682.

In certain embodiments, a target region is nucleotides 20727-20752 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20727-20752 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 87, 354, 355, 356 or 357. In certain such embodiments, an antisense compound targeted to nucleotides 20727-20752 of SEQ 30

ID NO: 2 is selected from ISIS NOs: 395179, 399901, 405971, 405972, 408653, 410540, 410602, 410603, 410604, 410680, 410681 or 410682.

In certain embodiments, a target region is nucleotides 20735-20759 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20735-20759 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 51, 358 or 359. In certain such embodiments, an antisense compound targeted to nucleotides 20735-20759 of SEQ ID NO: 2 is selected from ISIS NOs: 399813, 399969, 405973 or 405974.

In certain embodiments, a target region is nucleotides 20762-21014 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20762-21014 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 93, 119 or 360. In certain such embodiments, an antisense compound targeted to nucleotides 20762-21014 of SEQ ID NO: 2 is selected from ISIS NOs: 395180, 399864, 399902, 400020 or 410771.

In certain embodiments, a target region is nucleotides 20785-21014 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 20785-21014 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 93 or 360. In certain such embodiments, an antisense compound targeted to nucleotides 20785-21014 of SEQ ID NO: 2 is selected from ISIS NOs: 399864, 400020 or 410771.

In certain embodiments, a target region is nucleotides 21082-21107 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21082-21107 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 95 or 361. In certain such embodiments, an antisense compound targeted to nucleotides 21082-21107 of SEQ ID NO: 2 is selected from ISIS NOs: 399865, 400021 or 405975.

In certain embodiments, a target region is nucleotides 21082-21152 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21082-21152 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 53, 54, 95, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370 or 371. In certain such embodiments, an antisense compound targeted to nucleotides 21082-21152 of SEQ ID NO: 2 is selected from ISIS NOs: 395182, 399814, 399865,

399904, 399970, 400021, 405975, 405976, 405977, 405978, 405979, 405980, 405981, 405982, 405983, 410741 or 410772.

In certain embodiments, a target region is nucleotides 21091-21114 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21091-21114 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 53, 362 or 363. In certain such embodiments, an antisense compound targeted to nucleotides 21091-21114 of SEQ ID NO: 2 is selected from ISIS NOs: 399814, 399970, 405976 or 405977.

In certain embodiments, a target region is nucleotides 21118-21144 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21118-21144 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 54, 365, 366 or 367. In certain such embodiments, an antisense compound targeted to nucleotides 21118-21144 of SEQ ID NO: 2 is selected from ISIS NOs: 395182, 399904, 405978, 405979 or 405980.

In certain embodiments, a target region is nucleotides 21127-21152 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21127-21152 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 368, 369, 370 or 371. In certain such embodiments, an antisense compound targeted to nucleotides 21127-21152 of SEQ ID NO: 2 is selected from ISIS NOs: 405981, 405982, 405983 or 410741.

In certain embodiments, a target region is nucleotides 21181-21209 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21181-21209 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 372, 373, 374 or 375. In certain such embodiments, an antisense compound targeted to nucleotides 21181-21209 of SEQ ID NO: 2 is selected from ISIS NOs: 399815, 399971, 405564, 405641, 405984, 405985, 405986 or 405987.

In certain embodiments, a target region is nucleotides 21181-21211 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21181-21211 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 56, 372, 373, 374 or 375. In certain such embodiments, an antisense compound targeted to nucleotides 21181-21211 of SEQ

ID NO: 2 is selected from ISIS NOs: 399815, 399816, 399971, 399972, 405564, 405641, 405984, 405985, 405986 or 405987.

In certain embodiments, a target region is nucleotides 21183-21211 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21183-21211 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 56, 373, 374 or 375. In certain such embodiments, an antisense compound targeted to nucleotides 21183-21211 of SEQ ID NO: 2 is selected from ISIS NOs: 399815, 399816, 399971, 399972, 405564, 405641, 405985, 405986 or 405987.

10 In certain embodiments, a target region is nucleotides 21481-21500 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21481-21500 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 143. In certain such embodiments, an antisense compound targeted to nucleotides 21481-21500 of SEQ ID NO: 2 is selected from
15 ISIS NOs: 399866 or 400022.

In certain embodiments, a target region is nucleotides 21589-21608 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21589-21608 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 89. In certain such embodiments,
20 an antisense compound targeted to nucleotides 21589-21608 of SEQ ID NO: 2 is selected from ISIS NOs: 399867 or 400023.

In certain embodiments, a target region is nucleotides 21692-21719 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 21692-21719 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
25 comprises a nucleotide sequence selected from SEQ ID NOs: 123, 448, 449, 450, 451, 452, 453, 454 or 455. In certain such embodiments, an antisense compound targeted to nucleotides 21692-21719 of SEQ ID NO: 2 is selected from ISIS NOs: 399868, 400024, 406478, 406479, 406480, 406481, 406482, 406483, 406484 or 406485.

In certain embodiments, a target region is nucleotides 22000-22227 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22000-22227 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
30 comprises a nucleotide sequence selected from SEQ ID NOs: 59, 389, 390, 391, 392, 393, 394, 395 or 396. In certain such embodiments, an antisense compound targeted to nucleotides 22000-

22227 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992, 410550, 410551, 410552, 410553, 410554, 410555, 410616, 410617, 410618, 410619, 410620, 410621, 410622, 410623, 410695, 410696, 410697, 410698, 410699, 410700, 410701, 410702 or 410703.

In certain embodiments, a target region is nucleotides 22096-22115 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22096-22115 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 57. In certain such embodiments, an antisense compound targeted to nucleotides 22096-22115 of SEQ ID NO: 2 is selected from ISIS NOs: 395183 or 399905.

In certain embodiments, a target region is nucleotides 22096-22223 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22096-22223 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 57, 58, 59, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391 or 392. In certain such embodiments, an antisense compound targeted to nucleotides 22096-22223 of SEQ ID NO: 2 is selected from ISIS NOs: 395183, 395184, 395185, 399905, 399906, 399907, 405988, 405989, 405990, 410541, 410542, 410543, 410544, 410545, 410546, 410547, 410548, 410549, 410550, 410551, 410552, 410553, 410605, 410606, 410607, 410608, 410609, 410610, 410611, 410612, 410613, 410614, 410615, 410616, 410617, 410618, 410619, 410683, 410684, 410685, 410686, 410687, 410688, 410689, 410690, 410691, 410692, 410693, 410694, 410695, 410696, 410697, 410698, 410699 or 410773.

In certain embodiments, a target region is nucleotides 22096-22311 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22096-22311 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 57, 58, 59, 126, 126, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 401, 401, 402, 402, 402, 403, 403, 403, 404, 404, 404, 405, 405, 405 or 406. In certain such embodiments, an antisense compound targeted to nucleotides 22096-22311 of SEQ ID NO: 2 is selected from ISIS NOs: 395183, 395184, 395185, 395225, 399905, 399906, 399907, 399947, 405988, 405989, 405990, 405991, 405992, 405993, 405994, 405995, 410541, 410542, 410543, 410544, 410545, 410546, 410547, 410548, 410549, 410550, 410551, 410552, 410553, 410554, 410555, 410556, 410557, 410558, 410559, 410560, 410561, 410605, 410606, 410607, 410608, 410609, 410610, 410611, 410612, 410613, 410614, 410615, 410616, 410617,

410618, 410619, 410620, 410621, 410622, 410623, 410624, 410625, 410626, 410627, 410628,
410629, 410630, 410631, 410632, 410683, 410684, 410685, 410686, 410687, 410688, 410689,
410690, 410691, 410692, 410693, 410694, 410695, 410696, 410697, 410698, 410699, 410700,
410701, 410702, 410703, 410704, 410705, 410706, 410707, 410708, 410709, 410710, 410711,
5 410712, 410773 or 410774.

In certain embodiments, a target region is nucleotides 22133-22160 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 22133-22160 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 376, 377, 378, 379, 380, 381, 382,
10 383 or 384. In certain such embodiments, an antisense compound targeted to nucleotides 22133-
22160 of SEQ ID NO: 2 is selected from ISIS NOs: 405988, 405989, 410541, 410542, 410543,
410544, 410545, 410546, 410547, 410605, 410606, 410607, 410608, 410609, 410610, 410611,
410612, 410613, 410683, 410684, 410685, 410686, 410687, 410688, 410689, 410690 or 410691.

In certain embodiments, a target region is nucleotides 22133-22163 of SEQ ID NO: 2. In
15 certain embodiments, an antisense compound is targeted to nucleotides 22133-22163 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 58, 376, 377, 378, 379, 380, 381,
382, 383, 384, 385 or 386. In certain such embodiments, an antisense compound targeted to
nucleotides 22133-22163 of SEQ ID NO: 2 is selected from ISIS NOs: 395184, 399906, 405988,
20 405989, 405990, 410541, 410542, 410543, 410544, 410545, 410546, 410547, 410548, 410605,
410606, 410607, 410608, 410609, 410610, 410611, 410612, 410613, 410614, 410683, 410684,
410685, 410686, 410687, 410688, 410689, 410690, 410691, 410692 or 410693.

In certain embodiments, a target region is nucleotides 22134-22161 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 22134-22161 SEQ ID
25 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 58, 377, 378, 379, 380, 381, 382,
383 or 384. In certain such embodiments, an antisense compound targeted to nucleotides 22134-
22161 of SEQ ID NO: 2 is selected from ISIS NOs: 395184, 399906, 405988, 405989, 410542,
410543, 410544, 410545, 410546, 410547, 410606, 410607, 410608, 410609, 410610, 410611,
30 410612, 410613, 410684, 410685, 410686, 410687, 410688, 410689, 410690, 410691 or 410692.

In certain embodiments, a target region is nucleotides 22135-22162 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 22135-22162 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 58, 378, 379, 380, 381, 382, 383, 384 or 385. In certain such embodiments, an antisense compound targeted to nucleotides 22135-22162 of SEQ ID NO: 2 is selected from ISIS NOs: 395184, 399906, 405988, 405989, 410543, 410544, 410545, 410546, 410547, 410548, 410607, 410608, 410609, 410610, 410611, 410612, 5 410613, 410614, 410685, 410686, 410687, 410688, 410689, 410690, 410691, 410692 or 410693.

In certain embodiments, a target region is nucleotides 22136-22163 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22136-22163 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 379, 380, 381, 382, 383, 384, 10 385 or 386. In certain such embodiments, an antisense compound targeted to nucleotides 22136-22163 of SEQ ID NO: 2 is selected from ISIS NOs: 395184, 399906, 405988, 405989, 405990, 410544, 410545, 410546, 410547, 410548, 410608, 410609, 410610, 410611, 410612, 410613, 410614, 410686, 410687, 410688, 410689, 410690, 410691, 410692 or 410693.

In certain embodiments, a target region is nucleotides 22137-22163 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22137-22163 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 380, 381, 382, 383, 384, 385 or 386. In certain such embodiments, an antisense compound targeted to nucleotides 22137-22163 of SEQ ID NO: 2 is selected from ISIS NOs: 395184, 399906, 405988, 405989, 405990, 410545, 20 410546, 410547, 410548, 410609, 410610, 410611, 410612, 410613, 410614, 410687, 410688, 410689, 410690, 410691, 410692 or 410693.

In certain embodiments, a target region is nucleotides 22138-22163 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22138-22163 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 58, 381, 382, 383, 384, 385 or 386. 25 In certain such embodiments, an antisense compound targeted to nucleotides 22138-22163 of SEQ ID NO: 2 is selected from ISIS NOs: 395184, 399906, 405988, 405989, 405990, 410546, 410547, 410548, 410610, 410611, 410612, 410613, 410614, 410688, 410689, 410690, 410691, 410692 or 410693.

In certain embodiments, a target region is nucleotides 22189-22239 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22189-22239 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 387, 388, 389, 390, 391, 392, 30

393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405 or 406. In certain such
embodiments, an antisense compound targeted to nucleotides 22189-22239 of SEQ ID NO: 2 is
selected from ISIS NOs: 395185, 399907, 405991, 405992, 405993, 405994, 405995, 410549,
410550, 410551, 410552, 410553, 410554, 410555, 410556, 410557, 410558, 410559, 410560,
5 410561, 410615, 410616, 410617, 410618, 410619, 410620, 410621, 410622, 410623, 410624,
410625, 410626, 410627, 410628, 410629, 410630, 410631, 410632, 410694, 410695, 410696,
410697, 410698, 410699, 410700, 410701, 410702, 410703, 410704, 410705, 410706, 410707,
410708, 410709, 410710, 410711, 410712, 410773 or 410774.

In certain embodiments, a target region is nucleotides 22199-22226 of SEQ ID NO: 2. In
10 certain embodiments, an antisense compound is targeted to nucleotides 22199-22226 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 59, 388, 389, 390, 391, 392, 393,
394 or 395. In certain such embodiments, an antisense compound targeted to nucleotides 22199-
22226 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 410549, 410550,
15 410551, 410552, 410553, 410554, 410555, 410615, 410616, 410617, 410618, 410619, 410620,
410621, 410622, 410694, 410695, 410696, 410697, 410698, 410699, 410700, 410701 or 410702.

In certain embodiments, a target region is nucleotides 22199-22227 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 22199-22227 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
20 comprises a nucleotide sequence selected from SEQ ID NOs: 59, 388, 389, 390, 391, 392, 393,
394, 395 or 396. In certain such embodiments, an antisense compound targeted to nucleotides
22199-22227 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992,
410549, 410550, 410551, 410552, 410553, 410554, 410555, 410615, 410616, 410617, 410618,
410619, 410620, 410621, 410622, 410623, 410694, 410695, 410696, 410697, 410698, 410699,
25 410700, 410701, 410702 or 410703.

In certain embodiments, a target region is nucleotides 22200-22227 of SEQ ID NO: 2. In
certain embodiments, an antisense compound is targeted to nucleotides 22200-22227 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
comprises a nucleotide sequence selected from SEQ ID NOs: 59, 389, 390, 391, 392, 393, 394,
30 395 or 396. In certain such embodiments, an antisense compound targeted to nucleotides 22200-
22227 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992, 410550,
410551, 410552, 410553, 410554, 410555, 410616, 410617, 410618, 410619, 410620, 410621,
410622, 410623, 410695, 410696, 410697, 410698, 410699, 410700, 410701, 410702 or 410703.

In certain embodiments, a target region is nucleotides 22201-22228 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22201-22228 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 390, 391, 392, 393, 394, 395, 5 396 or 397. In certain such embodiments, an antisense compound targeted to nucleotides 22201-22228 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992, 410551, 410552, 410553, 410554, 410555, 410556, 410617, 410618, 410619, 410620, 410621, 410622, 410623, 410624, 410696, 410697, 410698, 410699, 410700, 410701, 410702, 410703 or 410704.

In certain embodiments, a target region is nucleotides 22202-22229 of SEQ ID NO: 2. In 10 certain embodiments, an antisense compound is targeted to nucleotides 22202-22229 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 391, 392, 393, 394, 395, 396, 397 or 398. In certain such embodiments, an antisense compound targeted to nucleotides 22202-22229 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992, 405993, 15 410552, 410553, 410554, 410555, 410556, 410618, 410619, 410620, 410621, 410622, 410623, 410624, 410625, 410697, 410698, 410699, 410700, 410701, 410702, 410703, 410704 or 410705.

In certain embodiments, a target region is nucleotides 22203-22230 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22203-22230 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid 20 comprises a nucleotide sequence selected from SEQ ID NOs: 59, 392, 393, 394, 395, 396, 397, 398 or 399. In certain such embodiments, an antisense compound targeted to nucleotides 22203-22230 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992, 405993, 410553, 410554, 410555, 410556, 410557, 410619, 410620, 410621, 410622, 410623, 410624, 410625, 410626, 410698, 410699, 410700, 410701, 410702, 410703, 410704, 410705 or 410706.

25 In certain embodiments, a target region is nucleotides 22204-22231 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22204-22231 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 59, 393, 394, 395, 396, 397, 398, 399 or 400. In certain such embodiments, an antisense compound targeted to nucleotides 22204-30 22231 of SEQ ID NO: 2 is selected from ISIS NOs: 395185, 399907, 405991, 405992, 405993, 405994, 410554, 410555, 410556, 410557, 410620, 410621, 410622, 410623, 410624, 410625, 410626, 410627, 410699, 410700, 410701, 410702, 410703, 410704, 410705, 410706 or 410707.

In certain embodiments, a target region is nucleotides 22205-22232 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22205-22232 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 393, 394, 395, 396, 397, 398, 399, 400 or 401. In certain such embodiments, an antisense compound targeted to nucleotides 22205-22232 of SEQ ID NO: 2 is selected from ISIS NOs: 405991, 405992, 405993, 405994, 410554, 410555, 410556, 410557, 410558, 410620, 410621, 410622, 410623, 410624, 410625, 410626, 410627, 410628, 410700, 410701, 410702, 410703, 410704, 410705, 410706, 410707 or 410708.

In certain embodiments, a target region is nucleotides 22206-22233 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22206-22233 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 394, 395, 396, 397, 398, 399, 400, 401 or 402. In certain such embodiments, an antisense compound targeted to nucleotides 22206-22233 of SEQ ID NO: 2 is selected from ISIS NOs: 405991, 405992, 405993, 405994, 405995, 410555, 410556, 410557, 410558, 410621, 410622, 410623, 410624, 410625, 410626, 410627, 410628, 410629, 410701, 410702, 410703, 410704, 410705, 410706, 410707, 410708 or 410709.

In certain embodiments, a target region is nucleotides 22207-22234 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22207-22234 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 395, 396, 397, 398, 399, 400, 401, 402 or 403. In certain such embodiments, an antisense compound targeted to nucleotides 22207-22234 of SEQ ID NO: 2 is selected from ISIS NOs: 405992, 405993, 405994, 405995, 410555, 410556, 410557, 410558, 410559, 410622, 410623, 410624, 410625, 410626, 410627, 410628, 410629, 410630, 410702, 410703, 410704, 410705, 410706, 410707, 410708, 410709 or 410710.

In certain embodiments, a target region is nucleotides 22208-22235 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22208-22235 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 396, 397, 398, 399, 400, 401, 402, 403 or 404. In certain such embodiments, an antisense compound targeted to nucleotides 22208-22235 of SEQ ID NO: 2 is selected from ISIS NOs: 405992, 405993, 405994, 405995, 410556, 410557, 410558, 410559, 410560, 410623, 410624, 410625, 410626, 410627, 410628, 410629, 410630, 410631, 410703, 410704, 410705, 410706, 410707, 410708, 410709, 410710 or 410711.

In certain embodiments, a target region is nucleotides 22209-22236 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22209-22236 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 397, 398, 399, 400, 401, 402, 403, 404 or 405. In certain such embodiments, an antisense compound targeted to nucleotides 22209-22236 of SEQ ID NO: 2 is selected from ISIS NOs: 405993, 405994, 405995, 410556, 410557, 410558, 410559, 410560, 410561, 410624, 410625, 410626, 410627, 410628, 410629, 410630, 410631, 410632, 410704, 410705, 410706, 410707, 410708, 410709, 410710, 410711 or 410712.

In certain embodiments, a target region is nucleotides 22210-22236 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22210-22236 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 398, 399, 400, 401, 402, 403, 404 or 405. In certain such embodiments, an antisense compound targeted to nucleotides 22210-22236 of SEQ ID NO: 2 is selected from ISIS NOs: 405993, 405994, 405995, 410557, 410558, 410559, 410560, 410561, 410625, 410626, 410627, 410628, 410629, 410630, 410631, 410632, 410705, 410706, 410707, 410708, 410709, 410710, 410711 or 410712.

In certain embodiments, a target region is nucleotides 22210-22239 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22210-22239 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 398, 399, 400, 401, 402, 403, 404, 405 or 405. In certain such embodiments, an antisense compound targeted to nucleotides 22210-22239 of SEQ ID NO: 2 is selected from ISIS NOs: 405993, 405994, 405995, 410557, 410558, 410559, 410560, 410561, 410625, 410626, 410627, 410628, 410629, 410630, 410631, 410632, 410705, 410706, 410707, 410708, 410709, 410710, 410711, 410712 or 410774.

In certain embodiments, a target region is nucleotides 22211-22236 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22211-22236 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 399, 400, 401, 402, 403, 404 or 405. In certain such embodiments, an antisense compound targeted to nucleotides 22211-22236 of SEQ ID NO: 2 is selected from ISIS NOs: 405994, 405995, 410557, 410558, 410559, 410560, 410561, 410626, 410627, 410628, 410629, 410630, 410631, 410632, 410706, 410707, 410708, 410709, 410710, 410711 or 410712.

In certain embodiments, a target region is nucleotides 22212-22239 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 22212-22239 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 400, 401, 402, 403, 404, 405 or 5 406. In certain such embodiments, an antisense compound targeted to nucleotides 22212-22239 of SEQ ID NO: 2 is selected from ISIS NOs: 405994, 405995, 410558, 410559, 410560, 410561, 410627, 410628, 410629, 410630, 410631, 410632, 410707, 410708, 410709, 410710, 410711, 410712 or 410774.

In certain embodiments, a target region is nucleotides 22292-22311 of SEQ ID NO: 2. In 10 certain embodiments, an antisense compound is targeted to nucleotides 22292-22311 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 126. In certain such embodiments, an antisense compound targeted to nucleotides 22292-22311 of SEQ ID NO: 2 is selected from ISIS NOs: 395225 or 399947.

15 In certain embodiments, a target region is nucleotides 23985-24054 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 23985-24054 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 408, 409 or 410. In certain such 20 embodiments, an antisense compound targeted to nucleotides 23985-24054 of SEQ ID NO: 2 is selected from ISIS NOs: 410776, 410777 or 410778.

In certain embodiments, a target region is nucleotides 24035-24134 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 24035-24134 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid 25 comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 410, 411, 412, 413, 414, 415 or 416. In certain such embodiments, an antisense compound targeted to nucleotides 24035-24134 of SEQ ID NO: 2 is selected from ISIS NOs: 395186, 399817, 399908, 399973, 405996, 405997, 410562, 410563, 410564, 410633, 410634, 410635, 410636, 410713, 410714, 410715, 410716, 410717, 410718, 410778 or 410779.

In certain embodiments, a target region is nucleotides 24095-24121 of SEQ ID NO: 2. In 30 certain embodiments, an antisense compound is targeted to nucleotides 24095-24121 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 411, 412, 413, 414 or 415. In certain such embodiments, an antisense compound targeted to nucleotides 24095-24121 of

SEQ ID NO: 2 is selected from ISIS NOs: 395186, 399817, 399908, 399973, 405996, 405997, 410562, 410563, 410564, 410633, 410634, 410635, 410636, 410713, 410714, 410715, 410716, 410717 or 410718.

5 In certain embodiments, a target region is nucleotides 24858-24877 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 24858-24877 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 147. In certain such embodiments, an antisense compound targeted to nucleotides 24858-24877 of SEQ ID NO: 2 is selected from ISIS NOs: 395226 or 399948.

10 In certain embodiments, a target region is nucleotides 24907-24926 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 24907-24926 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 118. In certain such embodiments, an antisense compound targeted to nucleotides 24907-24926 of SEQ ID NO: 2 is selected from
15 ISIS NOs: 399869 or 400025.

In certain embodiments, a target region is nucleotides 25413-25432 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 25413-25432 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 114. In certain such embodiments,
20 an antisense compound targeted to nucleotides 25413-25432 of SEQ ID NO: 2 is selected from ISIS NOs: 399870 or 400026.

In certain embodiments, a target region is nucleotides 25994-26013 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 25994-26013 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
25 comprises a nucleotide sequence selected from SEQ ID NOs: 418. In certain such embodiments, an antisense compound targeted to nucleotides 25994-26013 of SEQ ID NO: 2 is selected from ISIS NOs: 410781.

In certain embodiments, a target region is nucleotides 26112-26139 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26112-26139 SEQ ID
30 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 419, 420, 421, 422, 423, 424, 425 or 426. In certain such embodiments, an antisense compound targeted to nucleotides 26112-26139 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410565, 410566,

410567, 410568, 410569, 410570, 410571, 410637, 410638, 410639, 410640, 410641, 410642, 410643, 410644, 410719, 410720, 410721, 410722, 410723, 410724, 410725, 410726 or 410727.

In certain embodiments, a target region is nucleotides 26112-26161 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26112-26161 SEQ ID
5 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429 or 430. In certain such embodiments, an antisense compound targeted to nucleotides 26112-26161 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410565, 410566, 410567, 410568, 410569, 410570, 410571, 410572, 410573, 410637, 410638,
10 410639, 410640, 410641, 410642, 410643, 410644, 410645, 410646, 410719, 410720, 410721, 410722, 410723, 410724, 410725, 410726, 410727, 410728, 410729, 410782 or 410783.

In certain embodiments, a target region is nucleotides 26112-27303 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26112-27303 SEQ ID
15 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 112, 122, 135, 153, 154, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445 or 446. In certain such embodiments, an antisense compound targeted to nucleotides 26112-27303 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 395188, 395189, 395190, 395191, 395192,
20 395193, 395194, 395195, 395196, 395197, 395198, 395199, 399818, 399819, 399820, 399821, 399822, 399823, 399824, 399825, 399909, 399910, 399911, 399912, 399913, 399914, 399915, 399916, 399917, 399918, 399919, 399920, 399921, 399974, 399975, 399976, 399977, 399978, 399979, 399980, 399981, 405893, 405894, 405895, 405896, 405897, 405898, 405899, 405900, 405901, 405902, 405903, 405904, 405905, 405906, 405907, 405908, 405998, 410565, 410566,
25 410567, 410568, 410569, 410570, 410571, 410572, 410573, 410637, 410638, 410639, 410640, 410641, 410642, 410643, 410644, 410645, 410646, 410719, 410720, 410721, 410722, 410723, 410724, 410725, 410726, 410727, 410728, 410729, 410782 or 410783.

In certain embodiments, a target region is nucleotides 26113-26140 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26113-26140 SEQ ID
30 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 420, 421, 422, 423, 424, 425, 426 or 427. In certain such embodiments, an antisense compound targeted to nucleotides 26113-26140 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410566, 410567,

410568, 410569, 410570, 410571, 410572, 410638, 410639, 410640, 410641, 410642, 410643, 410644, 410645, 410720, 410721, 410722, 410723, 410724, 410725, 410726, 410727 or 410728.

In certain embodiments, a target region is nucleotides 26114-26141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26114-26141 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 421, 422, 423, 424, 425, 426, 427 or 248. In certain such embodiments, an antisense compound targeted to nucleotides 26114-26141 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410567, 410568, 410569, 410570, 410571, 410572, 410573, 410639, 410640, 410641, 410642, 410643, 410644, 410645, 410646, 410721, 410722, 410723, 410724, 410725, 410726, 410727, 410728 or 410729.

In certain embodiments, a target region is nucleotides 26115-26141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26115-26141 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 422, 423, 424, 425, 426, 427 or 248. In certain such embodiments, an antisense compound targeted to nucleotides 26115-26141 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410568, 410569, 410570, 410571, 410572, 410573, 410640, 410641, 410642, 410643, 410644, 410645, 410646, 410722, 410723, 410724, 410725, 410726, 410727, 410728 or 410729.

In certain embodiments, a target region is nucleotides 26116-26141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26116-26141 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 423, 424, 425, 426, 427 or 428. In certain such embodiments, an antisense compound targeted to nucleotides 26116-26141 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410569, 410570, 410571, 410572, 410573, 410641, 410642, 410643, 410644, 410645, 410646, 410723, 410724, 410725, 410726, 410727 or 410728.

In certain embodiments, a target region is nucleotides 26117-26141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26117-26141 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 424, 425, 426, 427 or 428. In certain such embodiments, an antisense compound targeted to nucleotides 26117-26141 of SEQ ID NO: 2 is selected from ISIS NOs: 395187, 399909, 405998, 410570, 410571, 410572,

410573, 410642, 410643, 410644, 410645, 410646, 410724, 410725, 410726, 410727, 410728 or 410729.

In certain embodiments, a target region is nucleotides 26117-26475 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26117-26475 SEQ ID
5 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 63, 64, 65, 66, 67, 122, 153, 154, 424, 425, 426, 427, 428, 429 or 430. In certain such embodiments, an antisense compound targeted to nucleotides 26117-26475 of SEQ ID NO: 2 is selected from ISIS NOs: 395187,
395188, 395189, 395190, 395191, 395192, 399818, 399819, 399820, 399909, 399910, 399911,
10 399912, 399913, 399914, 399974, 399975, 399976, 405998, 410570, 410571, 410572, 410573, 410642, 410643, 410644, 410645, 410646, 410724, 410725, 410726, 410727, 410728, 410729, 410782 or 410783.

In certain embodiments, a target region is nucleotides 26118-26141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26118-26141 SEQ ID
15 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 424, 425, 426, 427 or 428. In certain such embodiments, an antisense compound targeted to nucleotides 26118-26141 of SEQ ID NO: 2 is selected from ISIS NOs: 405998, 410570, 410571, 410572, 410573, 410642, 410643, 410644, 410645, 410646, 410725, 410726, 410727, 410728 or 410729.

In certain embodiments, a target region is nucleotides 26120-26141 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26120-26141 SEQ ID
20 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 426, 427 or 428. In certain such embodiments, an antisense compound targeted to nucleotides 26120-26141 of SEQ ID NO: 2 is selected from ISIS NOs: 405998, 410572, 410573, 410644, 410645, 410646, 410727, 410728 or
25 410729.

In certain embodiments, a target region is nucleotides 26132-26151 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26132-26151 SEQ ID
NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
30 comprises a nucleotide sequence selected from SEQ ID NOs: 429. In certain such embodiments, an antisense compound targeted to nucleotides 26132-26151 of SEQ ID NO: 2 is selected from ISIS NOs: 410782.

In certain embodiments, a target region is nucleotides 26142-26161 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26142-26161 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 430. In certain such embodiments, 5 an antisense compound targeted to nucleotides 26142-26161 of SEQ ID NO: 2 is selected from ISIS NOs: 410783.

In certain embodiments, a target region is nucleotides 26217-26241 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26217-26241 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid 10 comprises a nucleotide sequence selected from SEQ ID NOs: 63 or 154. In certain such embodiments, an antisense compound targeted to nucleotides 26217-26241 of SEQ ID NO: 2 is selected from ISIS NOs: 395188, 399818 or 399910.

In certain embodiments, a target region is nucleotides 26311-26335 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26311-26335 SEQ ID 15 NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 64 or 65. In certain such embodiments, an antisense compound targeted to nucleotides 26311-26335 of SEQ ID NO: 2 is selected from ISIS NOs: 395189, 399819, 399911 or 399975.

In certain embodiments, a target region is nucleotides 26389-26432 of SEQ ID NO: 2. In 20 certain embodiments, an antisense compound is targeted to nucleotides 26389-26432 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 66, 67 or 122. In certain such embodiments, an antisense compound targeted to nucleotides 26389-26432 of SEQ ID NO: 2 is selected from ISIS NOs: 395190, 395191, 399820, 399912, 399913 or 399976.

25 In certain embodiments, a target region is nucleotides 26456-26576 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26456-26576 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 68 or 153. In certain such 30 embodiments, an antisense compound targeted to nucleotides 26456-26576 of SEQ ID NO: 2 is selected from ISIS NOs: 395192, 395193, 399914 or 399915.

In certain embodiments, a target region is nucleotides 26635-26662 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26635-26662 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 69, 431, 432, 433, 434, 435, 436, 437 or 438. In certain such embodiments, an antisense compound targeted to nucleotides 26635-26662 of SEQ ID NO: 2 is selected from ISIS NOs: 395194, 399916, 405893, 405894, 405895, 405896, 405897, 405898, 405899 or 405900.

5 In certain embodiments, a target region is nucleotides 26707-26734 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26707-26734 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 70, 71, 439, 440, 441, 442, 443 or 444. In certain such embodiments, an antisense compound targeted to nucleotides 26707-26734
10 of SEQ ID NO: 2 is selected from ISIS NOs: 395195, 399821, 399917, 399977, 405901, 405902, 405903, 405904, 405905 or 405906.

In certain embodiments, a target region is nucleotides 26707-26736 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 26707-26736 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
15 comprises a nucleotide sequence selected from SEQ ID NOs: 70, 71, 439, 440, 441, 442, 443, 444, 445 or 446. In certain such embodiments, an antisense compound targeted to nucleotides 26707-26736 of SEQ ID NO: 2 is selected from ISIS NOs: 395195, 399821, 399917, 399977, 405901, 405902, 405903, 405904, 405905, 405906, 405907 or 405908.

In certain embodiments, a target region is nucleotides 26790-26820 of SEQ ID NO: 2. In
20 certain embodiments, an antisense compound is targeted to nucleotides 26790-26820 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 72, 73 or 135. In certain such embodiments, an antisense compound targeted to nucleotides 26790-26820 of SEQ ID NO: 2 is selected from ISIS NOs: 395196, 399822, 399823, 399918, 399978 or 399979.

25 In certain embodiments, a target region is nucleotides 27034-27263 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 27034-27263 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 74, 75 or 112. In certain such
30 embodiments, an antisense compound targeted to nucleotides 27034-27263 of SEQ ID NO: 2 is selected from ISIS NOs: 395197, 395198, 399824, 399919, 399920 or 399980.

In certain embodiments, a target region is nucleotides 27279-27303 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 27279-27303 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid

comprises a nucleotide sequence selected from SEQ ID NOs: 76 or 77. In certain such embodiments, an antisense compound targeted to nucleotides 27279-27303 of SEQ ID NO: 2 is selected from ISIS NOs: 395199, 399825, 399921 or 399981.

In certain embodiments, a target region is nucleotides 27350-27376 of SEQ ID NO: 2. In certain embodiments, an antisense compound is targeted to nucleotides 27350-27376 SEQ ID NO: 2. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 78 or 99. In certain such embodiments, an antisense compound targeted to nucleotides 27350-27376 of SEQ ID NO: 2 is selected from ISIS NOs: 395200, 399826, 399922 or 399982.

In certain embodiments, antisense compounds target a PCSK9 nucleic acid having the sequence of GENBANK® Accession No. AK124635.1, first deposited with GENBANK® on September 8, 2003, and incorporated herein as SEQ ID NO: 3. In certain such embodiments, an antisense oligonucleotide is targeted to SEQ ID NO: 3. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 3 is at least 90% complementary to SEQ ID NO: 1. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 3 is at least 95% complementary to SEQ ID NO: 3. In certain such embodiments, an antisense oligonucleotide that is targeted to SEQ ID NO: 3 is 100% complementary to SEQ ID NO: 3. In certain such embodiments, an antisense oligonucleotide comprises a nucleotide sequence selected from a nucleotide sequence set forth in Table 11.

20

Table 11: Nucleotide sequences targeted to AK124635.1 (SEQ ID NO: 3)

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
85	155	174	ACAAATTCCCAGACTCAGCA
100	220	239	ATCTCAGGACAGGTGAGCAA
116	234	253	GAGTAGAGATTCTCATCTCA
129	290	309	GTGCCATCTGAACAGCACCT
117	302	321	GAGTCTTCTGAAGTGCCATC
81	377	396	AAGCAGGGCCTCAGGTGGAA
110	400	419	CCTGGAACCCCTGCAGCCAG
152	451	470	TTCAGGCAGGTTGCTGCTAG
83	460	479	AAGGAAGACTTCAGGCAGGT
140	472	491	TCAGCCAGGCCAAAGGAAGA
137	586	605	TAGGGAGAGCTCACAGATGC
136	596	615	TAGGAGAAAGTAGGGAGAGC
132	653	672	TAAAAGCTGCAAGAGACTCA
139	741	760	TCAGAGAAAACAGTCACCGA

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
92	871	890	AGAGACAGGAAGCTGCAGCT
142	878	897	TCATTTTAGAGACAGGAAGC
113	915	934	GAATAACAGTGATGTCTGGC
138	968	987	TCACAGCTCACCGAGTCTGC
98	998	1017	AGTGTAATAAAGCCCCTA
96	1075	1094	AGGACCCAAGTCATCCTGCT
124	1105	1124	GGCCATCAGCTGGCAATGCT
82	1144	1163	AAGGAAAGGGAGGCCTAGAG
133	1149	1168	TAGACAAGGAAAGGGAGGCC
103	1155	1174	ATTCATAGACAAGGAAAGG
155	1275	1294	CTTATAGTTAACACACAGAA
156	1283	1302	AAGTCAACCTTATAGTTAAC
146	1315	1334	TGACATTTGTGGGAGAGGAG
161	1322	1341	TCCAAGGTGACATTTGTGGG
215	1351	1370	ATACACCTCCACCAGGCTGC
216	1362	1381	GTGTCTAGGAGATACACCTC
19	1365	1384	CTGGTGTCTAGGAGATACAC
217	1367	1386	TGCTGGTGTCTAGGAGATAC
20	1370	1389	GTATGCTGGTGTCTAGGAGA
21	1390	1409	GATTTCCCGGTGGTCACTCT
218	1392	1411	TCGATTTCCCGGTGGTCACT
219	1393	1412	CTCGATTTCCCGGTGGTCAC
220	1394	1413	CCTCGATTTCCCGGTGGTCA
221	1395	1414	CCCTCGATTTCCCGGTGGTC
22	1396	1415	GCCCTCGATTTCCCGGTGGT
222	1397	1416	TGCCCTCGATTTCCCGGTGG
223	1398	1417	CTGCCCTCGATTTCCCGGTG
224	1399	1418	CCTGCCCTCGATTTCCCGGT
225	1400	1419	CCCTGCCCTCGATTTCCCGG
226	1404	1423	ATGACCCTGCCCTCGATTTC
227	1406	1425	CCATGACCCTGCCCTCGATT
228	1408	1427	GACCATGACCCTGCCCTCGA
23	1410	1429	GTGACCATGACCCTGCCCTC
229	1412	1431	CGGTGACCATGACCCTGCC
230	1414	1433	GTCGGTGACCATGACCCTGC
231	1416	1435	AAGTCGGTGACCATGACCCT
232	1418	1437	CGAAGTCGGTGACCATGACC
24	1420	1439	CTCGAAGTCGGTGACCATGA
233	1428	1447	GGCACATTCTCGAAGTCGGT
25	1453	1472	GTGGAAGCGGGTCCCCTCCT
234	1463	1482	TGGCCTGTCTGTGGAAGCGG
235	1490	1509	GGTGGGTGCCATGACTGTCA
236	1493	1512	CCAGGTGGGTGCCATGACTG
237	1497	1516	CCTGCCAGGTGGGTGCCATG
26	1500	1519	ACCCCTGCCAGGTGGGTGCC
238	1502	1521	CCACCCCTGCCAGGTGGGTG
27	1505	1524	TGACCACCCCTGCCAGGTGG
239	1507	1526	GCTGACCACCCCTGCCAGGT

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
240	1515	1534	TCCCGGCCGCTGACCACCCC
241	1519	1538	GGCATCCCGGCCGCTGACCA
242	1522	1541	GCCGGCATCCCGGCCGCTGA
243	1527	1546	GCCACGCCGGCATCCCGGCC
244	1528	1547	GGCCACGCCGGCATCCCGGC
245	1529	1548	TGGCCACGCCGGCATCCCGG
246	1530	1549	TTGGCCACGCCGGCATCCCG
247	1531	1550	CTTGGCCACGCCGGCATCCC
248	1532	1551	CCTTGGCCACGCCGGCATCC
249	1533	1552	CCCTTGGCCACGCCGGCATC
28	1534	1553	ACCCTTGGCCACGCCGGCAT
447	1534	1553	ACCCTTGGTCACGCCGGCAT
250	1535	1554	CACCCTTGGCCACGCCGGCA
251	1536	1555	GCACCCTTGGCCACGCCGGC
252	1537	1556	GGCACCCTTGGCCACGCCGG
253	1538	1557	TGGCACCCTTGGCCACGCCG
254	1539	1558	CTGGCACCCTTGGCCACGCC
255	1540	1559	GCTGGCACCCTTGGCCACGC
256	1545	1564	CGCATGCTGGCACCCTTGGC
257	1566	1585	CAGTTGAGCACGCGCAGGCT
258	1568	1587	GGCAGTTGAGCACGCGCAGG
29	1570	1589	TTGGCAGTTGAGCACGCGCA
259	1572	1591	CCTTGGCAGTTGAGCACGCG
30	1575	1594	TTCCCTTGGCAGTTGAGCAC
260	1577	1596	CCTTCCCTTGGCAGTTGAGC
261	1581	1600	GTGCCCTTCCCTTGGCAGTT
262	1583	1602	CCGTGCCCTTCCCTTGGCAG
263	1594	1613	GGTGCCGCTAACCGTGCCCT
264	1606	1625	CAGGCCTATGAGGGTGCCGC
31	1607	1626	CCAGGCCTATGAGGGTGCCG
458	1609	1622	GCCTATGAGGGTGCC
459	1614	1627	TCCAGGCCTATGAG
265	1618	1637	CCGAATAAACTCCAGGCCTA
266	1626	1645	TGGCTTTTCCGAATAAACTC
32	1628	1647	GCTGGCTTTTCCGAATAAAC
267	1630	1649	CAGCTGGCTTTTCCGAATAA
268	1632	1651	ACCAGCTGGCTTTTCCGAAT
269	1634	1653	GGACCAGCTGGCTTTTCCGA
270	1638	1657	GGCTGGACCAGCTGGCTTTT
271	1649	1668	GTGGCCCCACAGGCTGGACC
272	1662	1681	AGCAGCACCACCAGTGGCCC
273	1684	1703	GCTGTACCCACCCGCCAGGG
274	1730	1749	CGACCCAGCCCTCGCCAGG
33	1740	1759	GTGACCAGCACGACCCAGC
275	1742	1761	CGGTGACCAGCACGACCCCA
276	1744	1763	AGCGGTGACCAGCACGACCC
277	1746	1765	GCAGCGGTGACCAGCACGAC
278	1748	1767	CGGCAGCGGTGACCAGCACG

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
279	1749	1768	CCGGCAGCGGTGACCAGCAC
280	1752	1771	TTGCCGGCAGCGGTGACCAG
281	1754	1773	AGTTGCCGGCAGCGGTGACC
282	1756	1775	GAAGTTGCCGGCAGCGGTGA
283	1758	1777	CGGAAGTTGCCGGCAGCGGT
284	1760	1779	CCCGGAAGTTGCCGGCAGCG
285	1762	1781	GTCCCGGAAGTTGCCGGCAG
306	1820	1839	GAGGCACCAATGATGTCCTC
39	1822	1841	TGGAGGCACCAATGATGTCC
307	1824	1843	GCTGGAGGCACCAATGATGT
308	1826	1845	TCGCTGGAGGCACCAATGAT
309	1828	1847	AGTCGCTGGAGGCACCAATG
310	1830	1849	GCAGTCGCTGGAGGCACCAA
40	1833	1852	GCTGCAGTCGCTGGAGGCAC
311	1835	1854	GTGCTGCAGTCGCTGGAGGC
312	1837	1856	AGGTGCTGCAGTCGCTGGAG
313	1839	1858	GCAGGTGCTGCAGTCGCTGG
314	1840	1859	AGCAGGTGCTGCAGTCGCTG
315	1842	1861	AAAGCAGGTGCTGCAGTCGC
41	1844	1863	ACAAAGCAGGTGCTGCAGTC
316	1846	1865	ACACAAAGCAGGTGCTGCAG
317	1848	1867	TGACACAAAGCAGGTGCTGC
318	1858	1877	TCCCACTCTGTGACACAAAG
101	1898	1917	ATGGCTGCAATGCCAGCCAC
319	1900	1919	TCATGGCTGCAATGCCAGCC
42	1903	1922	GCATCATGGCTGCAATGCCA
320	1905	1924	CAGCATCATGGCTGCAATGC
321	1907	1926	GACAGCATCATGGCTGCAAT
322	1909	1928	CAGACAGCATCATGGCTGCA
43	1911	1930	GGCAGACAGCATCATGGCTG
323	1913	1932	TCGGCAGACAGCATCATGGC
324	1915	1934	GCTCGGCAGACAGCATCATG
325	1917	1936	CGGCTCGGCAGACAGCATCA
326	1919	1938	TCCGGCTCGGCAGACAGCAT
327	1933	1952	CGGCCAGGGTGAGCTCCGGC
328	1946	1965	CTCTGCCTCAACTCGGCCAG
329	1948	1967	GTCTCTGCCTCAACTCGGCC
330	1950	1969	CAGTCTCTGCCTCAACTCGG
331	1952	1971	ATCAGTCTCTGCCTCAACTC
332	1954	1973	GGATCAGTCTCTGCCTCAAC
333	1956	1975	GTGGATCAGTCTCTGCCTCA
334	1958	1977	AAGTGGATCAGTCTCTGCCT
44	1959	1978	GAAGTGGATCAGTCTCTGCC
335	1961	1980	GAGAAGTGGATCAGTCTCTG
336	1963	1982	CAGAGAAGTGGATCAGTCTC
337	1965	1984	GGCAGAGAAGTGGATCAGTC
45	1967	1986	TTGGCAGAGAAGTGGATCAG
338	1969	1988	CTTTGGCAGAGAAGTGGATC

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
46	1972	1991	CATCTTTGGCAGAGAAGTGG
339	1974	1993	GACATCTTTGGCAGAGAAGT
340	1976	1995	ATGACATCTTTGGCAGAGAA
47	1978	1997	TGATGACATCTTTGGCAGAG
341	1980	1999	ATTGATGACATCTTTGGCAG
342	1982	2001	TCATTGATGACATCTTTGGC
48	1985	2004	GCCTCATTGATGACATCTTT
343	1987	2006	AGGCCTCATTGATGACATCT
344	1989	2008	CCAGGCCTCATTGATGACAT
345	1991	2010	AACCAGGCCTCATTGATGAC
346	1993	2012	GGAACCAGGCCTCATTGATG
347	1994	2013	GGGAACCAGGCCTCATTGAT
348	1995	2014	AGGGAACCAGGCCTCATTGA
349	1996	2015	CAGGGAACCAGGCCTCATTG
49	1997	2016	TCAGGGAACCAGGCCTCATT
350	1998	2017	CTCAGGGAACCAGGCCTCAT
351	1999	2018	CCTCAGGGAACCAGGCCTCA
352	2000	2019	TCCTCAGGGAACCAGGCCTC
353	2001	2020	GTCCTCAGGGAACCAGGCCT
50	2002	2021	GGTCCTCAGGGAACCAGGCC
354	2003	2022	TGGTCCTCAGGGAACCAGGC
355	2004	2023	CTGGTCCTCAGGGAACCAGG
356	2005	2024	GCTGGTCCTCAGGGAACCAG
357	2006	2025	CGCTGGTCCTCAGGGAACCA
87	2009	2028	ACCCGCTGGTCCTCAGGGAA
358	2011	2030	GTACCCGCTGGTCCTCAGGG
359	2013	2032	CAGTACCCGCTGGTCCTCAG
51	2016	2035	GGTCAGTACCCGCTGGTCCT
119	2038	2057	GCAGGGCGGCCACCAGGTTG
360	2061	2080	ACCTGCCCCATGGGTGCTGG
52	2073	2092	AAACAGCTGCCAACCTGCC
361	2075	2094	CAAAACAGCTGCCAACCTGC
53	2078	2097	CTGCAAAACAGCTGCCAAC
362	2080	2099	TCCTGCAAAACAGCTGCCAA
363	2082	2101	AGTCCTGCAAAACAGCTGCC
104	2085	2104	CACAGTCCTGCAAAACAGCT
130	2095	2114	GTGCTGACCACACAGTCCTG
365	2105	2124	GGCCCCGAGTGTGCTGACCA
54	2108	2127	GTAGGCCCCGAGTGTGCTGA
366	2110	2129	GTGTAGGCCCCGAGTGTGCT
367	2112	2131	CCGTGTAGGCCCCGAGTGTG
368	2114	2133	ATCCGTGTAGGCCCCGAGTG
369	2116	2135	CCATCCGTGTAGGCCCCGAG
370	2118	2137	GGCCATCCGTGTAGGCCCCG
371	2120	2139	GTGGCCATCCGTGTAGGCC
372	2168	2187	CTGGAGCAGCTCAGCAGCTC
460	2168	2181	CAGCTCAGCAGCTC
373	2170	2189	AACTGGAGCAGCTCAGCAGC

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
55	2173	2192	AGAAACTGGAGCAGCTCAGC
374	2175	2194	GGAGAAACTGGAGCAGCTCA
375	2177	2196	CTGGAGAAACTGGAGCAGCT
56	2179	2198	TCCTGGAGAAACTGGAGCAG
408	2245	2264	GTGCCAAGGTCCTCCACCTC
409	2265	2284	TCAGCACAGGCGGCTTGTGG
410	2295	2314	CCACGCACTGGTTGGGCTGA
60	2355	2374	CTTTGCATTCCAGACCTGGG
411	2356	2375	ACTTTGCATTCCAGACCTGG
412	2357	2376	GACTTTGCATTCCAGACCTG
413	2358	2377	TGACTTTGCATTCCAGACCT
414	2359	2378	TTGACTTTGCATTCCAGACC
61	2360	2379	CTTGACTTTGCATTCCAGAC
415	2362	2381	TCCTTGACTTTGCATTCCAG
416	2375	2394	CGGGATTCCATGCTCCTTGA
417	2405	2424	GCAGGCCACGGTCACCTGCT
418	2442	2461	GGAGGGCACTGCAGCCAGTC
419	2560	2579	CAGATGGCAACGGCTGTCA
420	2561	2580	GCAGATGGCAACGGCTGTCA
421	2562	2581	AGCAGATGGCAACGGCTGTC
422	2563	2582	CAGCAGATGGCAACGGCTGT
423	2564	2583	GCAGCAGATGGCAACGGCTG
62	2565	2584	GGCAGCAGATGGCAACGGCT
424	2566	2585	CGGCAGCAGATGGCAACGGC
425	2567	2586	CCGGCAGCAGATGGCAACGG
426	2568	2587	TCCGGCAGCAGATGGCAACG
427	2569	2588	CTCCGGCAGCAGATGGCAAC
428	2570	2589	GCTCCGGCAGCAGATGGCAA
429	2580	2599	CCAGGTGCCGGCTCCGGCAG
430	2590	2609	GAGGCCTGCGCCAGGTGCCG
154	2665	2684	TTTTAAAGCTCAGCCCCAGC
63	2670	2689	AACCATTTTAAAGCTCAGCC
64	2759	2778	TCAAGGGCCAGGCCAGCAGC
65	2764	2783	CCCACTCAAGGGCCAGGCCA
122	2837	2856	GGAGGGAGCTTCCTGGCACC
66	2852	2871	ATGCCCCACAGTGAGGGAGG
67	2861	2880	AATGGTGAAATGCCCCACAG
153	2904	2923	TTGGGAGCAGCTGGCAGCAC
68	3005	3024	CATGGGAAGAATCCTGCCTC
431	3083	3102	ATGAGGGCCATCAGCACCTT
432	3084	3103	GATGAGGGCCATCAGCACCT
433	3085	3104	AGATGAGGGCCATCAGCAC
434	3086	3105	GAGATGAGGGCCATCAGCAC
69	3087	3106	GGAGATGAGGGCCATCAGCA
435	3088	3107	TGGAGATGAGGGCCATCAGC
436	3089	3108	CTGGAGATGAGGGCCATCAG
437	3090	3109	GCTGGAGATGAGGGCCATCA
438	3091	3110	AGCTGGAGATGAGGGCCATC

SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Sequences (5'-3')
461	3132	3145	TTAATCAGGGAGCC
70	3155	3174	TAGATGCCATCCAGAAAGCT
439	3157	3176	GCTAGATGCCATCCAGAAAG
440	3158	3177	GGCTAGATGCCATCCAGAAA
441	3159	3178	TGGCTAGATGCCATCCAGAA
442	3160	3179	CTGGCTAGATGCCATCCAGA
71	3161	3180	TCTGGCTAGATGCCATCCAG
443	3162	3181	CTCTGGCTAGATGCCATCCA
444	3163	3182	CCTCTGGCTAGATGCCATCC
445	3164	3183	GCCTCTGGCTAGATGCCATC
446	3165	3184	AGCCTCTGGCTAGATGCCAT
72	3238	3257	GGCATAGAGCAGAGTAAAGG
73	3243	3262	AGCCTGGCATAGAGCAGAGT
135	3249	3268	TAGCACAGCCTGGCATAGAG
112	3482	3501	GAAGAGGCTTGGCTTCAGAG
74	3488	3507	AAGTAAGAAGAGGCTTGGCT
75	3692	3711	GCTCAAGGAGGGACAGTTGT
76	3727	3746	AAAGATAAATGTCTGCTTGC
77	3732	3751	ACCCAAAAGATAAATGTCTG
78	3798	3817	TCTTCAAGTTACAAAAGCAA
99	3805	3824	ATAAATATCTTCAAGTTACA

In certain embodiments, gapmer antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gapmer antisense compounds are targeted to SEQ ID NO: 3. In certain such embodiments, the nucleotide sequences illustrated in Table 11 have a 5-10-5 gapmer motif. Table 12 illustrates gapmer antisense compounds targeted to SEQ ID NO: 3, having a 5-10-5 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

10 **Table 12: Gapmer antisense compounds having a 5-10-5 motif targeted to SEQ ID NO: 3**

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
395201	5-10-5	85	155	174	0	ACAAATTCCCAGACTCAGCA
399827	5-10-5	100	220	239	0	ATCTCAGGACAGGTGAGCAA
399828	5-10-5	116	234	253	0	GAGTAGAGATTCTCATCTCA
395202	5-10-5	129	290	309	0	GTGCCATCTGAACAGCACCT
399829	5-10-5	117	302	321	0	GAGTCTTCTGAAGTGCCATC
399830	5-10-5	81	377	396	0	AAGCAGGGCCTCAGGTGGAA

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
395203	5-10-5	110	400	419	0	CCTGGAACCCCTGCAGCCAG
395204	5-10-5	152	451	470	0	TTCAGGCAGGTTGCTGCTAG
399831	5-10-5	83	460	479	0	AAGGAAGACTTCAGGCAGGT
395205	5-10-5	140	472	491	0	TCAGCCAGGCCAAAGGAAGA
399832	5-10-5	137	586	605	0	TAGGGAGAGCTCACAGATGC
395206	5-10-5	136	596	615	0	TAGGAGAAAGTAGGGAGAGC
395207	5-10-5	132	653	672	0	TAAAAGCTGCAAGAGACTCA
395208	5-10-5	139	741	760	0	TCAGAGAAAACAGTCACCGA
399833	5-10-5	92	871	890	0	AGAGACAGGAAGCTGCAGCT
395209	5-10-5	142	878	897	0	TCATTTTAGAGACAGGAAGC
395210	5-10-5	113	915	934	0	GAATAACAGTGATGTCTGGC
395211	5-10-5	138	968	987	0	TCACAGCTCACCGAGTCTGC
395212	5-10-5	98	998	1017	0	AGTGTAATAAAGCCCTA
395213	5-10-5	96	1075	1094	0	AGGACCCAAGTCATCCTGCT
395214	5-10-5	124	1105	1124	0	GGCCATCAGCTGGCAATGCT
399834	5-10-5	82	1144	1163	0	AAGGAAAGGGAGGCCTAGAG
395215	5-10-5	133	1149	1168	0	TAGACAAGGAAAGGGAGGCC
395216	5-10-5	103	1155	1174	0	ATTCATAGACAAGGAAAGG
395217	5-10-5	155	1275	1294	0	CTTATAGTTAACACACAGAA
399835	5-10-5	156	1283	1302	0	AAGTCAACCTTATAGTTAAC
395218	5-10-5	146	1315	1334	0	TGACATTTGTGGGAGAGGAG
395219	5-10-5	161	1322	1341	0	TCCAAGGTGACATTTGTGGG
395160	5-10-5	19	1365	1384	0	CTGGTGTCTAGGAGATACAC
399797	5-10-5	20	1370	1389	0	GTATGCTGGTGTCTAGGAGA
395161	5-10-5	21	1390	1409	0	GATTTCCCGGTGGTCACTCT
399798	5-10-5	22	1396	1415	0	GCCCTCGATTTCCCGGTGGT
399799	5-10-5	23	1410	1429	0	GTGACCATGACCCTGCCCTC
395162	5-10-5	24	1420	1439	0	CTCGAAGTCGGTGACCATGA
395163	5-10-5	25	1453	1472	0	GTGGAAGCGGGTCCCGTCCT
395164	5-10-5	26	1500	1519	0	ACCCCTGCCAGGTGGGTGCC
399800	5-10-5	27	1505	1524	0	TGACCACCCCTGCCAGGTGG
395165	5-10-5	28	1534	1553	0	ACCCTTGGCCACGCCGGCAT
395166	5-10-5	29	1570	1589	0	TTGGCAGTTGAGCACGCGCA
399801	5-10-5	30	1575	1594	0	TTCCCTTGGCAGTTGAGCAC
395167	5-10-5	31	1607	1626	0	CCAGGCCTATGAGGGTGCCG
395168	5-10-5	32	1628	1647	0	GCTGGCTTTTCCGAATAAAC
395169	5-10-5	33	1740	1759	0	GTGACCAGCACGACCCAGC
395175	5-10-5	39	1822	1841	0	TGGAGGCACCAATGATGTCC
399804	5-10-5	40	1833	1852	0	GCTGCAGTCGCTGGAGGCAC
399805	5-10-5	41	1844	1863	0	ACAAAGCAGGTGCTGCAGTC
395176	5-10-5	101	1898	1917	0	ATGGCTGCAATGCCAGCCAC
399806	5-10-5	42	1903	1922	0	GCATCATGGCTGCAATGCCA
399807	5-10-5	43	1911	1930	0	GGCAGACAGCATCATGGCTG
399808	5-10-5	44	1959	1978	0	GAAGTGGATCAGTCTCTGCC
395177	5-10-5	45	1967	1986	0	TTGGCAGAGAAGTGGATCAG
399809	5-10-5	46	1972	1991	0	CATCTTTGGCAGAGAAGTGG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
399810	5-10-5	47	1978	1997	0	TGATGACATCTTTGGCAGAG
399811	5-10-5	48	1985	2004	0	GCCTCATTGATGACATCTTT
399812	5-10-5	49	1997	2016	0	TCAGGGAACCAGGCCTCATT
395178	5-10-5	50	2002	2021	0	GGTCCTCAGGGAACCAGGCC
395179	5-10-5	87	2009	2028	0	ACCCGCTGGTCCTCAGGGAA
399813	5-10-5	51	2016	2035	0	GGTCAGTACCCGCTGGTCCT
395180	5-10-5	119	2038	2057	0	GCAGGGCGGCCACCAGGTTG
395181	5-10-5	52	2073	2092	0	AAACAGCTGCCAACCTGCCC
399814	5-10-5	53	2078	2097	0	CTGCAAAACAGCTGCCAAC
395220	5-10-5	104	2085	2104	0	CACAGTCCTGCAAAACAGCT
399836	5-10-5	130	2095	2114	0	GTGCTGACCACACAGTCCTG
395182	5-10-5	54	2108	2127	0	GTAGGCCCCGAGTGTGCTGA
399815	5-10-5	55	2173	2192	0	AGAAACTGGAGCAGCTCAGC
399816	5-10-5	56	2179	2198	0	TCCTGGAGAACTGGAGCAG
395186	5-10-5	60	2355	2374	0	CTTTGCATTCCAGACCTGGG
399817	5-10-5	61	2360	2379	0	CTTGACTTTGCATTCCAGAC
395187	5-10-5	62	2565	2584	0	GGCAGCAGATGGCAACGGCT
395188	5-10-5	154	2665	2684	0	TTTTAAAGCTCAGCCCCAGC
399818	5-10-5	63	2670	2689	0	AACCATTTTAAAGCTCAGCC
395189	5-10-5	64	2759	2778	0	TCAAGGGCCAGGCCAGCAGC
399819	5-10-5	65	2764	2783	0	CCCACTCAAGGGCCAGGCCA
399820	5-10-5	122	2837	2856	0	GGAGGGAGCTTCTGGCACC
395190	5-10-5	66	2852	2871	0	ATGCCCCACAGTGAGGGAGG
395191	5-10-5	67	2861	2880	0	AATGGTGAAATGCCCCACAG
395192	5-10-5	153	2904	2923	0	TTGGGAGCAGCTGGCAGCAC
395193	5-10-5	68	3005	3024	0	CATGGGAAGAATCCTGCCTC
395194	5-10-5	69	3087	3106	0	GGAGATGAGGGCCATCAGCA
395195	5-10-5	70	3155	3174	0	TAGATGCCATCCAGAAAGCT
399821	5-10-5	71	3161	3180	0	TCTGGCTAGATGCCATCCAG
395196	5-10-5	72	3238	3257	0	GGCATAGAGCAGAGTAAAGG
399822	5-10-5	73	3243	3262	0	AGCCTGGCATAGAGCAGAGT
399823	5-10-5	135	3249	3268	0	TAGCACAGCCTGGCATAGAG
395197	5-10-5	112	3482	3501	0	GAAGAGGCTTGGCTTCAGAG
399824	5-10-5	74	3488	3507	0	AAGTAAGAAGAGGCTTGGCT
395198	5-10-5	75	3692	3711	0	GCTCAAGGAGGGACAGTTGT
395199	5-10-5	76	3727	3746	0	AAAGATAAATGTCTGCTTGC
399825	5-10-5	77	3732	3751	0	ACCCAAAAGATAAATGTCTG
395200	5-10-5	78	3798	3817	0	TCTTCAAGTTACAAAAGCAA
399826	5-10-5	99	3805	3824	0	ATAAATATCTTCAAGTTACA
405869	5-10-5	218	1392	1411	0	TCGATTTCCCGGTGGTCACT
405870	5-10-5	219	1393	1412	0	CTCGATTTCCCGGTGGTCAC
405871	5-10-5	220	1394	1413	0	CCTCGATTTCCCGGTGGTCA
405872	5-10-5	221	1395	1414	0	CCCTCGATTTCCCGGTGGTC
405873	5-10-5	222	1397	1416	0	TGCCCTCGATTTCCCGGTGG
405874	5-10-5	223	1398	1417	0	CTGCCCTCGATTTCCCGGTG
405875	5-10-5	224	1399	1418	0	CCTGCCCTCGATTTCCCGGT

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
405876	5-10-5	225	1400	1419	0	CCCTGCCCTCGATTTCCTGG
405877	5-10-5	246	1530	1549	0	TTGGCCACGCCGGCATCCCG
405878	5-10-5	247	1531	1550	0	CTTGGCCACGCCGGCATCCC
405879	5-10-5	248	1532	1551	0	CCTTGGCCACGCCGGCATCC
405880	5-10-5	249	1533	1552	0	CCCTTGGCCACGCCGGCATC
405881	5-10-5	250	1535	1554	0	CACCCTTGGCCACGCCGGCA
405882	5-10-5	251	1536	1555	0	GCACCCTTGGCCACGCCGGC
405883	5-10-5	252	1537	1556	0	GGCACCCTTGGCCACGCCGG
405884	5-10-5	253	1538	1557	0	TGGCACCCTTGGCCACGCCG
405885	5-10-5	346	1993	2012	0	GGAACCAGGCCTCATTGATG
405886	5-10-5	347	1994	2013	0	GGGAACCAGGCCTCATTGAT
405887	5-10-5	348	1995	2014	0	AGGGAACCAGGCCTCATTGA
405888	5-10-5	349	1996	2015	0	CAGGGAACCAGGCCTCATTG
405889	5-10-5	350	1998	2017	0	CTCAGGGAACCAGGCCTCAT
405890	5-10-5	351	1999	2018	0	CCTCAGGGAACCAGGCCTCA
405891	5-10-5	352	2000	2019	0	TCCTCAGGGAACCAGGCCTC
405892	5-10-5	353	2001	2020	0	GTCCTCAGGGAACCAGGCCT
405893	5-10-5	431	3083	3102	0	ATGAGGGCCATCAGCACCTT
405894	5-10-5	432	3084	3103	0	GATGAGGGCCATCAGCACCT
405895	5-10-5	433	3085	3104	0	AGATGAGGGCCATCAGCAC
405896	5-10-5	434	3086	3105	0	GAGATGAGGGCCATCAGCAC
405897	5-10-5	435	3088	3107	0	TGGAGATGAGGGCCATCAGC
405898	5-10-5	436	3089	3108	0	CTGGAGATGAGGGCCATCAG
405899	5-10-5	437	3090	3109	0	GCTGGAGATGAGGGCCATCA
405900	5-10-5	438	3091	3110	0	AGCTGGAGATGAGGGCCATC
405901	5-10-5	439	3157	3176	0	GCTAGATGCCATCCAGAAAG
405902	5-10-5	440	3158	3177	0	GGCTAGATGCCATCCAGAAA
405903	5-10-5	441	3159	3178	0	TGGCTAGATGCCATCCAGAA
405904	5-10-5	442	3160	3179	0	CTGGCTAGATGCCATCCAGA
405905	5-10-5	443	3162	3181	0	CTCTGGCTAGATGCCATCCA
405906	5-10-5	444	3163	3182	0	CCTCTGGCTAGATGCCATCC
405907	5-10-5	445	3164	3183	0	GCCTCTGGCTAGATGCCATC
405908	5-10-5	446	3165	3184	0	AGCCTCTGGCTAGATGCCAT
405909	5-10-5	267	1630	1649	0	CAGCTGGCTTTTCCGAATAA
405910	5-10-5	268	1632	1651	0	ACCAGCTGGCTTTTCCGAAT
405911	5-10-5	269	1634	1653	0	GGACCAGCTGGCTTTTCCGA
405912	5-10-5	270	1638	1657	0	GGCTGGACCAGCTGGCTTTT
405913	5-10-5	275	1742	1761	0	CGGTGACCAGCACGACCCCA
405914	5-10-5	276	1744	1763	0	AGCGGTGACCAGCACGACCC
405915	5-10-5	277	1746	1765	0	GCAGCGGTGACCAGCACGAC
405916	5-10-5	278	1748	1767	0	CGGCAGCGGTGACCAGCACG
405917	5-10-5	280	1752	1771	0	TTGCCGGCAGCGGTGACCAG
405918	5-10-5	281	1754	1773	0	AGTTGCCGGCAGCGGTGACC
405919	5-10-5	282	1756	1775	0	GAAGTTGCCGGCAGCGGTGA
405920	5-10-5	283	1758	1777	0	CGGAAGTTGCCGGCAGCGGT
405921	5-10-5	284	1760	1779	0	CCCGGAAGTTGCCGGCAGCG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
405922	5-10-5	285	1762	1781	0	GTCCCGGAAGTTGCCGGCAG
405937	5-10-5	306	1820	1839	0	GAGGCACCAATGATGTCCTC
405938	5-10-5	307	1824	1843	0	GCTGGAGGCACCAATGATGT
405939	5-10-5	308	1826	1845	0	TCGCTGGAGGCACCAATGAT
405940	5-10-5	309	1828	1847	0	AGTCGCTGGAGGCACCAATG
405941	5-10-5	310	1830	1849	0	GCAGTCGCTGGAGGCACCAA
405942	5-10-5	311	1835	1854	0	GTGCTGCAGTCGCTGGAGGC
405943	5-10-5	312	1837	1856	0	AGGTGCTGCAGTCGCTGGAG
405944	5-10-5	314	1840	1859	0	AGCAGGTGCTGCAGTCGCTG
405945	5-10-5	315	1842	1861	0	AAAGCAGGTGCTGCAGTCGC
405946	5-10-5	316	1846	1865	0	ACACAAAGCAGGTGCTGCAG
405947	5-10-5	317	1848	1867	0	TGACACAAAGCAGGTGCTGC
405948	5-10-5	319	1900	1919	0	TCATGGCTGCAATGCCAGCC
405949	5-10-5	320	1905	1924	0	CAGCATCATGGCTGCAATGC
405950	5-10-5	321	1907	1926	0	GACAGCATCATGGCTGCAAT
405951	5-10-5	322	1909	1928	0	CAGACAGCATCATGGCTGCA
405952	5-10-5	323	1913	1932	0	TCGGCAGACAGCATCATGGC
405953	5-10-5	325	1917	1936	0	CGGCTCGGCAGACAGCATCA
405954	5-10-5	326	1919	1938	0	TCCGGCTCGGCAGACAGCAT
405955	5-10-5	328	1946	1965	0	CTCTGCCTCAACTCGGCCAG
405956	5-10-5	329	1948	1967	0	GTCTCTGCCTCAACTCGGCC
405957	5-10-5	330	1950	1969	0	CAGTCTCTGCCTCAACTCGG
405958	5-10-5	331	1952	1971	0	ATCAGTCTCTGCCTCAACTC
405959	5-10-5	332	1954	1973	0	GGATCAGTCTCTGCCTCAAC
405960	5-10-5	333	1956	1975	0	GTGGATCAGTCTCTGCCTCA
405961	5-10-5	334	1958	1977	0	AAGTGGATCAGTCTCTGCCT
405962	5-10-5	335	1961	1980	0	GAGAAGTGGATCAGTCTCTG
405963	5-10-5	337	1965	1984	0	GGCAGAGAAGTGGATCAGTC
405964	5-10-5	338	1969	1988	0	CTTTGGCAGAGAAGTGGATC
405965	5-10-5	339	1974	1993	0	GACATCTTTGGCAGAGAAGT
405966	5-10-5	340	1976	1995	0	ATGACATCTTTGGCAGAGAA
405967	5-10-5	341	1980	1999	0	ATTGATGACATCTTTGGCAG
405968	5-10-5	342	1982	2001	0	TCATTGATGACATCTTTGGC
405969	5-10-5	343	1987	2006	0	AGGCCTCATTGATGACATCT
405970	5-10-5	344	1989	2008	0	CCAGGCCTCATTGATGACAT
405971	5-10-5	355	2004	2023	0	CTGGTCCTCAGGGAACCAGG
405972	5-10-5	357	2006	2025	0	CGCTGGTCCTCAGGGAACCA
405973	5-10-5	358	2011	2030	0	GTACCCGCTGGTCCTCAGGG
405974	5-10-5	359	2013	2032	0	CAGTACCCGCTGGTCCTCAG
405975	5-10-5	361	2075	2094	0	CAAACAGCTGCCAACCTGC
405976	5-10-5	362	2080	2099	0	TCCTGCAAAACAGCTGCCAA
405977	5-10-5	363	2082	2101	0	AGTCCTGCAAAACAGCTGCC
405978	5-10-5	365	2105	2124	0	GGCCCCGAGTGTGCTGACCA
405979	5-10-5	366	2110	2129	0	GTGTAGGCCCCGAGTGTGCT
405980	5-10-5	367	2112	2131	0	CCGTGTAGGCCCCGAGTGTG
405981	5-10-5	368	2114	2133	0	ATCCGTGTAGGCCCCGAGTG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
405982	5-10-5	370	2118	2137	0	GGCCATCCGTGTAGGCCCCG
405983	5-10-5	371	2120	2139	0	GTGGCCATCCGTGTAGGCC
405984	5-10-5	372	2168	2187	0	CTGGAGCAGCTCAGCAGCTC
405985	5-10-5	373	2170	2189	0	AACTGGAGCAGCTCAGCAGC
405986	5-10-5	374	2175	2194	0	GGAGAACTGGAGCAGCTCA
405987	5-10-5	375	2177	2196	0	CTGGAGAACTGGAGCAGCT
405996	5-10-5	412	2357	2376	0	GACTTTGCATTCCAGACCTG
405997	5-10-5	415	2362	2381	0	TCCTTGACTTTGCATTCCAG
405998	5-10-5	426	2568	2587	0	TCCGGCAGCAGATGGCAACG
406025	5-10-5	216	1362	1381	0	GTGTCTAGGAGATACACCTC
406026	5-10-5	217	1367	1386	0	TGCTGGTGTCTAGGAGATAC
406027	5-10-5	226	1404	1423	0	ATGACCCTGCCCTCGATTTC
406028	5-10-5	227	1406	1425	0	CCATGACCCTGCCCTCGATT
406029	5-10-5	228	1408	1427	0	GACCATGACCCTGCCCTCGA
406030	5-10-5	229	1412	1431	0	CGGTGACCATGACCCTGCC
406031	5-10-5	230	1414	1433	0	GTCGGTGACCATGACCCTGC
406032	5-10-5	232	1418	1437	0	CGAAGTCGGTGACCATGACC
406033	5-10-5	237	1497	1516	0	CCTGCCAGGTGGGTGCCATG
406034	5-10-5	238	1502	1521	0	CCACCCCTGCCAGGTGGGTG
406035	5-10-5	239	1507	1526	0	GCTGACCACCCCTGCCAGGT
406036	5-10-5	241	1519	1538	0	GGCATCCCGGCCGCTGACCA
406037	5-10-5	242	1522	1541	0	GCCGGCATCCCGGCCGCTGA
406038	5-10-5	245	1529	1548	0	TGGCCACGCCGGCATCCCGG
406039	5-10-5	257	1566	1585	0	CAGTTGAGCACGCGCAGGCT
406040	5-10-5	258	1568	1587	0	GGCAGTTGAGCACGCGCAGG
406041	5-10-5	259	1572	1591	0	CCTTGGCAGTTGAGCACGCG
406042	5-10-5	260	1577	1596	0	CCTTCCCTTGGCAGTTGAGC
406043	5-10-5	261	1581	1600	0	GTGCCCTTCCCTTGGCAGTT
406044	5-10-5	262	1583	1602	0	CCGTGCCCTTCCCTTGGCAG
406045	5-10-5	266	1626	1645	0	TGGCTTTTCCGAATAAACTC
408642	5-10-5	264	1606	1625	0	CAGGCCTATGAGGGTGCCGC
408653	5-10-5	354	2003	2022	0	TGGTCCTCAGGGAACCAGGC
409126	5-10-5	447	1534	1553	1	ACCCTTGGTCACGCCGGCAT
410536	5-10-5	243	1527	1546	0	GCCACGCCGGCATCCCGGCC
410537	5-10-5	244	1528	1547	0	GGCCACGCCGGCATCCCGGCC
410538	5-10-5	254	1539	1558	0	CTGGCACCCCTTGGCCACGCC
410539	5-10-5	255	1540	1559	0	GCTGGCACCCCTTGGCCACGC
410540	5-10-5	356	2005	2024	0	GCTGGTCCTCAGGGAACCAG
410562	5-10-5	411	2356	2375	0	ACTTTGCATTCCAGACCTGG
410563	5-10-5	413	2358	2377	0	TGACTTTGCATTCCAGACCT
410564	5-10-5	414	2359	2378	0	TTGACTTTGCATTCCAGACC
410565	5-10-5	419	2560	2579	0	CAGATGGCAACGGCTGTCAC
410566	5-10-5	420	2561	2580	0	GCAGATGGCAACGGCTGTCA
410567	5-10-5	421	2562	2581	0	AGCAGATGGCAACGGCTGTC
410568	5-10-5	422	2563	2582	0	CAGCAGATGGCAACGGCTGT
410569	5-10-5	423	2564	2583	0	GCAGCAGATGGCAACGGCTG

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
410570	5-10-5	424	2566	2585	0	CGGCAGCAGATGGCAACGGC
410571	5-10-5	425	2567	2586	0	CCGGCAGCAGATGGCAACGG
410572	5-10-5	427	2569	2588	0	CTCCGGCAGCAGATGGCAAC
410573	5-10-5	428	2570	2589	0	GCTCCGGCAGCAGATGGCAA
410733	5-10-5	231	1416	1435	0	AAGTCGGTGACCATGACCCT
410734	5-10-5	279	1749	1768	0	CCGGCAGCGGTGACCAGCAC
410737	5-10-5	313	1839	1858	0	GCAGGTGCTGCAGTCGCTGG
410738	5-10-5	324	1915	1934	0	GCTCGGCAGACAGCATCATG
410739	5-10-5	336	1963	1982	0	CAGAGAAGTGGATCAGTCTC
410740	5-10-5	345	1991	2010	0	AACCAGGCCTCATTGATGAC
410741	5-10-5	369	2116	2135	0	CCATCCGTGTAGGCCCCGAG
410753	5-10-5	215	1351	1370	0	ATACACCTCCACCAGGCTGC
410754	5-10-5	233	1428	1447	0	GGCACATTCTCGAAGTCGGT
410755	5-10-5	234	1463	1482	0	TGGCCTGTCTGTGGAAGCGG
410756	5-10-5	235	1490	1509	0	GGTGGGTGCCATGACTGTCA
410757	5-10-5	240	1515	1534	0	TCCCGGCCGCTGACCACCCC
410758	5-10-5	256	1545	1564	0	CGCATGCTGGCACCCCTTGGC
410759	5-10-5	263	1594	1613	0	GGTGCCGCTAACCGTGCCCT
410760	5-10-5	265	1618	1637	0	CCGAATAAACTCCAGGCCTA
410761	5-10-5	271	1649	1668	0	GTGGCCCCACAGGCTGGACC
410762	5-10-5	272	1662	1681	0	AGCAGCACCACCAGTGGCCC
410763	5-10-5	273	1684	1703	0	GCTGTACCCACCCGCCAGGG
410764	5-10-5	274	1730	1749	0	CGACCCAGCCCTCGCCAGG
410769	5-10-5	318	1858	1877	0	TCCCACTCTGTGACACAAAG
410770	5-10-5	327	1933	1952	0	CGGCCAGGGTGAGCTCCGGC
410771	5-10-5	360	2061	2080	0	ACCTGCCCCATGGGTGCTGG
410776	5-10-5	408	2245	2264	0	GTGCCAAGGTCCTCCACCTC
410777	5-10-5	409	2265	2284	0	TCAGCACAGGCGGCTTGTGG
410778	5-10-5	410	2295	2314	0	CCACGCACTGGTTGGGCTGA
410779	5-10-5	416	2375	2394	0	CGGGATTCCATGCTCCTTGA
410780	5-10-5	417	2405	2424	0	GCAGGCCACGGTCACCTGCT
410781	5-10-5	418	2442	2461	0	GGAGGGCACTGCAGCCAGTC
410782	5-10-5	429	2580	2599	0	CCAGGTGCCGGCTCCGGCAG
410783	5-10-5	430	2590	2609	0	GAGGCCTGCGCCAGGTGCCG

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 3. In certain such embodiments, the nucleotide sequences illustrated in Table 11 have a 3-14-3 gap-widened motif. Table 13 illustrates gap-widened antisense compounds targeted to SEQ ID NO: 3, having a 3-14-3 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-

methoxyethyl sugar modification. Internucleoside linkages are phosphorthioate, and cytidines are 5-methylcytidines.

Table 13: Gapmer antisense compounds having a 3-14-3 motif targeted to SEQ ID NO: 3

5

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
399923	3-14-3	85	155	174	0	ACAAATTCCCAGACTCAGCA
399983	3-14-3	100	220	239	0	ATCTCAGGACAGGTGAGCAA
399984	3-14-3	116	234	253	0	GAGTAGAGATTCTCATCTCA
399924	3-14-3	129	290	309	0	GTGCCATCTGAACAGCACCT
399985	3-14-3	117	302	321	0	GAGTCTTCTGAAGTGCCATC
399986	3-14-3	81	377	396	0	AAGCAGGGCCTCAGGTGGAA
399925	3-14-3	110	400	419	0	CCTGGAACCCCTGCAGCCAG
399926	3-14-3	152	451	470	0	TTCAGGCAGGTTGCTGCTAG
399987	3-14-3	83	460	479	0	AAGGAAGACTTCAGGCAGGT
399927	3-14-3	140	472	491	0	TCAGCCAGGCCAAAGGAAGA
399988	3-14-3	137	586	605	0	TAGGGAGAGCTCACAGATGC
399928	3-14-3	136	596	615	0	TAGGAGAAAGTAGGGAGAGC
399929	3-14-3	132	653	672	0	TAAAAGCTGCAAGAGACTCA
399930	3-14-3	139	741	760	0	TCAGAGAAAACAGTCACCGA
399989	3-14-3	92	871	890	0	AGAGACAGGAAGCTGCAGCT
399931	3-14-3	142	878	897	0	TCATTTTAGAGACAGGAAGC
399932	3-14-3	113	915	934	0	GAATAACAGTGATGTCTGGC
399933	3-14-3	138	968	987	0	TCACAGCTCACCGAGTCTGC
399934	3-14-3	98	998	1017	0	AGTGTAATAAAGCCCCTA
399935	3-14-3	96	1075	1094	0	AGGACCAAGTCATCCTGCT
399936	3-14-3	124	1105	1124	0	GGCCATCAGCTGGCAATGCT
399990	3-14-3	82	1144	1163	0	AAGGAAAGGGAGGCCTAGAG
399937	3-14-3	133	1149	1168	0	TAGACAAGGAAAGGGAGGCC
399938	3-14-3	103	1155	1174	0	ATTCATAGACAAGGAAAGG
399939	3-14-3	155	1275	1294	0	CTTATAGTTAACACACAGAA
399991	3-14-3	156	1283	1302	0	AAGTCAACCTTATAGTTAAC
399940	3-14-3	146	1315	1334	0	TGACATTTGTGGGAGAGGAG
399941	3-14-3	161	1322	1341	0	TCCAAGGTGACATTTGTGGG
399882	3-14-3	19	1365	1384	0	CTGGTGTCTAGGAGATACAC
399953	3-14-3	20	1370	1389	0	GTATGCTGGTGTCTAGGAGA
399883	3-14-3	21	1390	1409	0	GATTTCCCGGTGGTCACTCT
399954	3-14-3	22	1396	1415	0	GCCCTCGATTTCCCGGTGGT
399955	3-14-3	23	1410	1429	0	GTGACCATGACCCTGCCCTC
399884	3-14-3	24	1420	1439	0	CTCGAAGTCGGTGACCATGA
399885	3-14-3	25	1453	1472	0	GTGGAAGCGGGTCCCGTCCT
399886	3-14-3	26	1500	1519	0	ACCCCTGCCAGGTGGGTGCC
399956	3-14-3	27	1505	1524	0	TGACCACCCCTGCCAGGTGG
399887	3-14-3	28	1534	1553	0	ACCCTTGGCCACGCCGGCAT
399888	3-14-3	29	1570	1589	0	TTGGCAGTTGAGCACGCGCA
399957	3-14-3	30	1575	1594	0	TTCCCTTGGCAGTTGAGCAC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
399889	3-14-3	31	1607	1626	0	CCAGGCCTATGAGGGTGCCG
399890	3-14-3	32	1628	1647	0	GCTGGCTTTTCCGAATAAAC
399891	3-14-3	33	1740	1759	0	GTGACCAGCACGACCCACAGC
399897	3-14-3	39	1822	1841	0	TGGAGGCACCAATGATGTCC
399960	3-14-3	40	1833	1852	0	GCTGCAGTCGCTGGAGGCAC
399961	3-14-3	41	1844	1863	0	ACAAAGCAGGTGCTGCAGTC
399898	3-14-3	101	1898	1917	0	ATGGCTGCAATGCCAGCCAC
399962	3-14-3	42	1903	1922	0	GCATCATGGCTGCAATGCCA
399963	3-14-3	43	1911	1930	0	GGCAGACAGCATCATGGCTG
399964	3-14-3	44	1959	1978	0	GAAGTGGATCAGTCTCTGCC
399899	3-14-3	45	1967	1986	0	TTGGCAGAGAAGTGGATCAG
399965	3-14-3	46	1972	1991	0	CATCTTTGGCAGAGAAGTGG
399966	3-14-3	47	1978	1997	0	TGATGACATCTTTGGCAGAG
399967	3-14-3	48	1985	2004	0	GCCTCATTGATGACATCTTT
399968	3-14-3	49	1997	2016	0	TCAGGGAACCAGGCCTCATT
399900	3-14-3	50	2002	2021	0	GGTCCTCAGGGAACCAGGCC
399901	3-14-3	87	2009	2028	0	ACCCGCTGGTCCTCAGGGAA
399969	3-14-3	51	2016	2035	0	GGTCAGTACCCGCTGGTCCT
399902	3-14-3	119	2038	2057	0	GCAGGGCGGCCACCAGGTTG
399903	3-14-3	52	2073	2092	0	AAACAGCTGCCAACCTGCCC
399970	3-14-3	53	2078	2097	0	CTGCAAACAGCTGCCAAC
399942	3-14-3	104	2085	2104	0	CACAGTCCTGCAAACAGCT
399992	3-14-3	130	2095	2114	0	GTGCTGACCACACAGTCCTG
399904	3-14-3	54	2108	2127	0	GTAGGCCCCGAGTGTGCTGA
399971	3-14-3	55	2173	2192	0	AGAAACTGGAGCAGCTCAGC
399972	3-14-3	56	2179	2198	0	TCCTGGAGAAACTGGAGCAG
399908	3-14-3	60	2355	2374	0	CTTTGCATTCCAGACCTGGG
399973	3-14-3	61	2360	2379	0	CTTGACTTTGCATTCCAGAC
399909	3-14-3	62	2565	2584	0	GGCAGCAGATGGCAACGGCT
399910	3-14-3	154	2665	2684	0	TTTTAAAGCTCAGCCCCAGC
399974	3-14-3	63	2670	2689	0	AACCATTTTAAAGCTCAGCC
399911	3-14-3	64	2759	2778	0	TCAAGGGCCAGGCCAGCAGC
399975	3-14-3	65	2764	2783	0	CCCACTCAAGGGCCAGGCCA
399976	3-14-3	122	2837	2856	0	GGAGGGAGCTTCTGGCACC
399912	3-14-3	66	2852	2871	0	ATGCCCCACAGTGAGGGAGG
399913	3-14-3	67	2861	2880	0	AATGGTGAAATGCCCCACAG
399914	3-14-3	153	2904	2923	0	TTGGGAGCAGCTGGCAGCAC
399915	3-14-3	68	3005	3024	0	CATGGGAAGAATCCTGCCTC
399916	3-14-3	69	3087	3106	0	GGAGATGAGGGCCATCAGCA
399917	3-14-3	70	3155	3174	0	TAGATGCCATCCAGAAAGCT
399977	3-14-3	71	3161	3180	0	TCTGGCTAGATGCCATCCAG
399918	3-14-3	72	3238	3257	0	GGCATAGAGCAGAGTAAAGG
399978	3-14-3	73	3243	3262	0	AGCCTGGCATAGAGCAGAGT
399979	3-14-3	135	3249	3268	0	TAGCACAGCCTGGCATAGAG
399919	3-14-3	112	3482	3501	0	GAAGAGGCTTGGCTTCAGAG
399980	3-14-3	74	3488	3507	0	AAGTAAGAAGAGGCTTGGCT
399920	3-14-3	75	3692	3711	0	GCTCAAGGAGGGACAGTTGT
399921	3-14-3	76	3727	3746	0	AAAGATAAATGTCTGCTTGC

Isis No	Motif	SEQ ID NO	5' Target Site on SEQ ID NO: 3	3' Target Site on SEQ ID NO: 3	Mismatches	Sequence (5'-3')
399981	3-14-3	77	3732	3751	0	ACCCAAAAGATAAATGTCTG
399922	3-14-3	78	3798	3817	0	TCTTCAAGTTACAAAAGCAA
399982	3-14-3	99	3805	3824	0	ATAAATATCTTCAAGTTACA
405604	3-14-3	236	1493	1512	0	CCAGGTGGGTGCCATGACTG
405641	3-14-3	373	2170	2189	0	AACTGGAGCAGCTCAGCAGC
410583	3-14-3	243	1527	1546	0	GCCACGCCGGCATCCCGGCC
410584	3-14-3	244	1528	1547	0	GGCCACGCCGGCATCCCGGC
410585	3-14-3	245	1529	1548	0	TGGCCACGCCGGCATCCCGG
410586	3-14-3	246	1530	1549	0	TTGGCCACGCCGGCATCCCG
410587	3-14-3	247	1531	1550	0	CTTGGCCACGCCGGCATCCC
410588	3-14-3	248	1532	1551	0	CCTTGGCCACGCCGGCATCC
410589	3-14-3	249	1533	1552	0	CCCTTGGCCACGCCGGCATC
410590	3-14-3	250	1535	1554	0	CACCCTTGGCCACGCCGGCA
410591	3-14-3	251	1536	1555	0	GCACCCTTGGCCACGCCGGC
410592	3-14-3	252	1537	1556	0	GGCACCCTTGGCCACGCCGG
410593	3-14-3	253	1538	1557	0	TGGCACCCTTGGCCACGCCG
410594	3-14-3	254	1539	1558	0	CTGGCACCCTTGGCCACGCC
410595	3-14-3	255	1540	1559	0	GCTGGCACCCTTGGCCACGC
410596	3-14-3	348	1995	2014	0	AGGGAACCAGGCCTCATTGA
410597	3-14-3	349	1996	2015	0	CAGGGAACCAGGCCTCATTG
410598	3-14-3	350	1998	2017	0	CTCAGGGAACCAGGCCTCAT
410599	3-14-3	351	1999	2018	0	CCTCAGGGAACCAGGCCTCA
410600	3-14-3	352	2000	2019	0	TCCTCAGGGAACCAGGCCTC
410601	3-14-3	353	2001	2020	0	GTCCTCAGGGAACCAGGCCT
410602	3-14-3	354	2003	2022	0	TGGTCCTCAGGGAACCAGGC
410603	3-14-3	355	2004	2023	0	CTGGTCCTCAGGGAACCAGG
410604	3-14-3	356	2005	2024	0	GCTGGTCCTCAGGGAACCAG
410633	3-14-3	411	2356	2375	0	ACTTTGCATTCCAGACCTGG
410634	3-14-3	412	2357	2376	0	GACTTTGCATTCCAGACCTG
410635	3-14-3	413	2358	2377	0	TGACTTTGCATTCCAGACCT
410636	3-14-3	414	2359	2378	0	TTGACTTTGCATTCCAGACC
410637	3-14-3	419	2560	2579	0	CAGATGGCAACGGCTGTCAC
410638	3-14-3	420	2561	2580	0	GCAGATGGCAACGGCTGTCA
410639	3-14-3	421	2562	2581	0	AGCAGATGGCAACGGCTGTC
410640	3-14-3	422	2563	2582	0	CAGCAGATGGCAACGGCTGT
410641	3-14-3	423	2564	2583	0	GCAGCAGATGGCAACGGCTG
410642	3-14-3	424	2566	2585	0	CGGCAGCAGATGGCAACGGC
410643	3-14-3	425	2567	2586	0	CCGGCAGCAGATGGCAACGG
410644	3-14-3	426	2568	2587	0	TCCGGCAGCAGATGGCAACG
410645	3-14-3	427	2569	2588	0	CTCCGGCAGCAGATGGCAAC
410646	3-14-3	428	2570	2589	0	GCTCCGGCAGCAGATGGCAA

In certain embodiments, gap-widened antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gap-widened antisense compounds are targeted to SEQ ID NO: 3. In certain such embodiments, the nucleotide sequences illustrated in Table 11 have a 2-13-5 gap-widened motif. Table 14 illustrates gap-widened antisense compounds

targeted to SEQ ID NO: 3, having a 2-13-5 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

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Table 14: Gapmer antisense compounds having a 2-13-5 motif targeted to SEQ ID NO: 3

ISIS No	Motiff	SEQ ID NO	5' Target Site to SEQ ID NO: 3	3' Target Site to SEQ ID NO: 3	Mismatches	Sequences (5'- 3')
410658	2-13-5	243	1527	1546	0	GCCACGCCGGCATCCCCGGCC
410659	2-13-5	244	1528	1547	0	GGCCACGCCGGCATCCCCGGC
410660	2-13-5	245	1529	1548	0	TGGCCACGCCGGCATCCCCGG
410661	2-13-5	246	1530	1549	0	TTGGCCACGCCGGCATCCCCG
410662	2-13-5	247	1531	1550	0	CTTGGCCACGCCGGCATCCC
410663	2-13-5	248	1532	1551	0	CCTTGGCCACGCCGGCATCC
410664	2-13-5	249	1533	1552	0	CCCTTGGCCACGCCGGCATC
410665	2-13-5	28	1534	1553	0	ACCCTTGGCCACGCCGGCAT
410666	2-13-5	250	1535	1554	0	CACCCTTGGCCACGCCGGCA
410667	2-13-5	251	1536	1555	0	GCACCCTTGGCCACGCCGGC
410668	2-13-5	252	1537	1556	0	GGCACCCTTGGCCACGCCGG
410669	2-13-5	253	1538	1557	0	TGGCACCCTTGGCCACGCCG
410670	2-13-5	254	1539	1558	0	CTGGCACCCTTGGCCACGCC
410671	2-13-5	255	1540	1559	0	GCTGGCACCCTTGGCCACGC
410672	2-13-5	348	1995	2014	0	AGGGAACCAGGCCTCATTGA
410673	2-13-5	349	1996	2015	0	CAGGGAACCAGGCCTCATTG
410674	2-13-5	49	1997	2016	0	TCAGGGAACCAGGCCTCATT
410675	2-13-5	350	1998	2017	0	CTCAGGGAACCAGGCCTCAT
410676	2-13-5	351	1999	2018	0	CCTCAGGGAACCAGGCCTCA
410677	2-13-5	352	2000	2019	0	TCCTCAGGGAACCAGGCCTC
410678	2-13-5	353	2001	2020	0	GTCCTCAGGGAACCAGGCCT
410679	2-13-5	50	2002	2021	0	GGTCCTCAGGGAACCAGGCC
410680	2-13-5	354	2003	2022	0	TGGTCCTCAGGGAACCAGGC
410681	2-13-5	355	2004	2023	0	CTGGTCCTCAGGGAACCAGG
410682	2-13-5	356	2005	2024	0	GCTGGTCCTCAGGGAACCAG
410713	2-13-5	60	2355	2374	0	CTTTGCATTCCAGACCTGGG
410714	2-13-5	411	2356	2375	0	ACTTTGCATTCCAGACCTGG
410715	2-13-5	412	2357	2376	0	GACTTTGCATTCCAGACCTG
410716	2-13-5	413	2358	2377	0	TGACTTTGCATTCCAGACCT
410717	2-13-5	414	2359	2378	0	TTGACTTTGCATTCCAGACC
410718	2-13-5	61	2360	2379	0	CTTGACTTTGCATTCCAGAC
410719	2-13-5	419	2560	2579	0	CAGATGGCAACGGCTGTAC
410720	2-13-5	420	2561	2580	0	GCAGATGGCAACGGCTGTCA
410721	2-13-5	421	2562	2581	0	AGCAGATGGCAACGGCTGTC
410722	2-13-5	422	2563	2582	0	CAGCAGATGGCAACGGCTGT
410723	2-13-5	423	2564	2583	0	GCAGCAGATGGCAACGGCTG

ISIS No	Motiff	SEQ ID NO	5' Target Site to SEQ ID NO: 3	3' Target Site to SEQ ID NO: 3	Mismatches	Sequences (5'- 3')
410724	2-13-5	62	2565	2584	0	GGCAGCAGATGGCAACGGCT
410725	2-13-5	424	2566	2585	0	CGGCAGCAGATGGCAACGGC
410726	2-13-5	425	2567	2586	0	CCGGCAGCAGATGGCAACGG
410727	2-13-5	426	2568	2587	0	TCCGGCAGCAGATGGCAACG
410728	2-13-5	427	2569	2588	0	CTCCGGCAGCAGATGGCAAC
410729	2-13-5	428	2570	2589	0	GCTCCGGCAGCAGATGGCAA

The following embodiments set forth target regions of PCSK9 nucleic acids. Also illustrated are examples of antisense compounds targeted to the target regions. It is understood that the sequence set forth in each SEQ ID NO is independent of any modification to a sugar moiety, an internucleoside linkage, or a nucleobase. As such, antisense compounds defined by a SEQ ID NO may comprise, independently, one or more modifications to a sugar moiety, an internucleoside linkage, or a nucleobase. Antisense compounds described by Isis Number (Isis No) indicate a combination of nucleobase sequence and motif.

In certain embodiments, antisense compounds target a range of a PCSK9 nucleic acid. In certain embodiment, such compounds contain at least an 8 nucleotide core sequence in common. In certain embodiments, such compounds sharing at least an 8 nucleotide core sequence targets the following nucleotide regions of SEQ ID: 3: 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, or 3727-3751, or 3798-3824.

In certain embodiments, a target region is nucleotides 290-321 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 290-321 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 117 or 129. In certain such embodiments, an
5 antisense compound targeted to nucleotides 290-321 of SEQ ID NO: 3 is selected from ISIS NOs: 395202, 399924, 399829 or 399985.

In certain embodiments, a target region is nucleotides 220-253 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 220-253 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 100 or 116. In certain such embodiments, an antisense compound targeted to nucleotides 220-253 of SEQ ID NO: 3 is selected from ISIS NOs: 399827, 399983, 399828 or 399984.

In certain embodiments, a target region is nucleotides 377-419 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 377-419 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
15 nucleotide sequence selected from SEQ ID NOs: 81 or 110. In certain such embodiments, an antisense compound targeted to nucleotides 377-419 of SEQ ID NO: 3 is selected from ISIS NOs: 399830, 399986, 395203 or 399925.

In certain embodiments, a target region is nucleotides 451-615 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 451-615 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 152, 140, 137 or 136. In certain such embodiments, an antisense compound targeted to nucleotides 451-615 of SEQ ID NO: 3 is selected from ISIS NOs: 395204, 399926, 399831, 399987, 395205, 399927, 399832, 399988,
25 395206 or 399928.

In certain embodiments, a target region is nucleotides 653-672 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 653-672 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 132. In certain such embodiments, an antisense compound targeted to nucleotides 653-672 of SEQ ID NO: 3 is selected from ISIS NOs: 395207 or 399929.

In certain embodiments, a target region is nucleotides 741-760 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 741-760 SEQ ID NO: 3.

In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 139. In certain such embodiments, an antisense compound targeted to nucleotides 741-760 of SEQ ID NO: 3 is selected from ISIS NOs: 395208 or 399930.

5 In certain embodiments, a target region is nucleotides 871-897 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 871-897 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 92 or 142. In certain such embodiments, an antisense compound targeted to nucleotides 871-897 of SEQ ID NO: 3 is selected from ISIS
10 NOs: 399833, 399989, 395209 or 399931.

 In certain embodiments, a target region is nucleotides 915-934 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 915-934 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 113. In certain such embodiments, an antisense
15 compound targeted to nucleotides 915-934 of SEQ ID NO: 3 is selected from ISIS NOs: 395210 or 399932.

 In certain embodiments, a target region is nucleotides 968-1017 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 968-1017 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 98 or 138. In certain such embodiments, an antisense compound targeted to nucleotides 968-1017 of SEQ ID NO: 3 is selected from ISIS NOs: 395211, 399933, 395212, or 399934.

 In certain embodiments, a target region is nucleotides 1075-1124 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1075-1124 SEQ ID NO:
25 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 96 or 124. In certain such embodiments, an antisense compound targeted to nucleotides 1075-1124 of SEQ ID NO: 3 is selected from ISIS NOs: 395213, 399935, 395214, or 399936.

 In certain embodiments, a target region is nucleotides 1075-1174 of SEQ ID NO: 3. In
30 certain embodiments, an antisense compound is targeted to nucleotides 1075-1174 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 82, 96, 103, 124, or 133. In certain such embodiments, an antisense compound targeted to nucleotides 1075-1174 of SEQ ID NO: 3 is

selected from ISIS NOs: 395213, 399935, 395214, 399936, 399834, 399990, 395215, 399937, 395216, or 399938.

In certain embodiments, a target region is nucleotides 1144-1174 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1144-1174 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 82, 133 or 103. In certain such embodiments, an antisense compound targeted to nucleotides 1144-1174 of SEQ ID NO: 3 is selected from ISIS NOs: 399834, 399990, 395215, 399937, 395216 or 399938.

In certain embodiments, a target region is nucleotides 1275-1302 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1275-1302 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 155 or 156. In certain such embodiments, an antisense compound targeted to nucleotides 1275-1302 of SEQ ID NO: 3 is selected from ISIS NOs: 395217, 399939, 399835 or 399991.

In certain embodiments, a target region is nucleotides 1315-1341 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1315-1341 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 146 or 161. In certain such embodiments, an antisense compound targeted to nucleotides 1315-1341 of SEQ ID NO: 3 is selected from ISIS NOs: 395218, 399940, 395219 or 399941.

In certain embodiments, a target region is nucleotides 1351-1389 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1351-1389 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 215, 216, 19, 217 or 20. In certain such embodiments, an antisense compound targeted to nucleotides 1351-1389 of SEQ ID NO: 3 is selected from ISIS NOs: 410753, 406025, 395160, 399882, 406026, 399797 or 399953.

In certain embodiments, a target region is nucleotides 1351-1447 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1351-1447 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 215, 216, 19, 217, 20, 21, 218, 219, 220, 221, 22,222, 223, 224, 225, 226, 227, 228, 23, 229, 230,231, 232, 24, or 233. In certain such embodiments, an antisense compound targeted to nucleotides 1351-1447 of SEQ ID NO: 3 is selected from ISIS NOs: 410753, 406025, 395160, 399882, 406026, 399797, 399953, 395161,

399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 399799, 399955, 406030, 406031, 410733, 406032, 395162, 399884 or 410754.

In certain embodiments, a target region is nucleotides 1365-1439 of SEQ ID NO: 3. In
5 certain embodiments, an antisense compound is targeted to nucleotides 1365-1439 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 19, 20, 21, 22, 23, 24, 217, 218, 219, 220, 221,
222, 223, 224, 225, 226, 227, 228, 229, 230, 231, or 232. In certain such embodiments, an
antisense compound targeted to nucleotides 1365-1439 of SEQ ID NO: 3 is selected from ISIS
10 NOs: 395160, 399882, 406026, 399797, 399953, 395161, 399883, 405869, 405870, 405871,
405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 399799,
399955, 406030, 406031, 410733, 406032, 395162, or 399884.

In certain embodiments, a target region is nucleotides 1390-1417 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1390-1417 SEQ ID NO:
15 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 218, 219, 220, 221, 22, 222 or 223. In
certain such embodiments, an antisense compound targeted to nucleotides 1390-1417 of SEQ ID
NO: 3 is selected from ISIS NOs: 395161, 399883, 405869, 405870, 405871, 405872, 399798,
399954, 405873 or 405874.

In certain embodiments, a target region is nucleotides 1390-1429 of SEQ ID NO: 3. In
20 certain embodiments, an antisense compound is targeted to nucleotides 1390-1429 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 22, 23, 217, 218, 219, 220, 221, 222, 223,
224, 225, 226, 227, or 228. In certain such embodiments, an antisense compound targeted to
25 nucleotides 1390-1429 of SEQ ID NO: 3 is selected from ISIS NOs: 395160, 399882, 406026,
399797, 399953, 395161, 399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873,
405874, 405875, 405876, 406027, 406028, 406029, 399799, or 399955.

In certain embodiments, a target region is nucleotides 1390-1439 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1390-1439 SEQ ID NO:
30 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 21, 22, 23, 24, 217, 218, 219, 220, 221, 222,
223, 224, 225, 226, 227, 228, 229, 230, 231, or 232. In certain such embodiments, an antisense
compound targeted to nucleotides 1390-1439 of SEQ ID NO: 3 is selected from ISIS NOs:

395160, 399882, 406026, 399797, 399953, 395161, 399883, 405869, 405870, 405871, 405872, 399798, 399954, 405873, 405874, 405875, 405876, 406027, 406028, 406029, 399799, 399955, 406030, 406031, 410733, 406032, 395162, or 399884.

In certain embodiments, a target region is nucleotides 1399-1425 of SEQ ID NO: 3. In
5 certain embodiments, an antisense compound is targeted to nucleotides 1399-1425 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 224, 225, 226 or 227. In certain such
embodiments, an antisense compound targeted to nucleotides 1399-1425 of SEQ ID NO: 3 is
selected from ISIS NOs: 405875, 405876, 406027 or 406028.

10 In certain embodiments, a target region is nucleotides 1408-1435 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1408-1435 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 228, 229, 230 or 231. In certain such
embodiments, an antisense compound targeted to nucleotides 1408-1435 of SEQ ID NO: 3 is
15 selected from ISIS NOs: 406029, 399799, 399955, 406030, 406031 or 410733.

In certain embodiments, a target region is nucleotides 1420-1447 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1420-1447 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 232 or 233. In certain such embodiments, an
20 antisense compound targeted to nucleotides 1420-1447 of SEQ ID NO: 3 is selected from ISIS
NOs: 395162, 399884 or 410754.

In certain embodiments, a target region is nucleotides 1453-1482 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1453-1482 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 234 or 235. In certain such embodiments, an
antisense compound targeted to nucleotides 1453-1482 of SEQ ID NO: 3 is selected from ISIS
NOs: 395163, 399885 or 410755.

In certain embodiments, a target region is nucleotides 1490-1516 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1490-1516 SEQ ID NO:
30 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 236, 237, or 238. In certain such
embodiments, an antisense compound targeted to nucleotides 1490-1516 of SEQ ID NO: 3 is
selected from ISIS NOs: 410756, 405604, or 406033.

In certain embodiments, a target region is nucleotides 1490-1564 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1490-1564 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 235, 236, 237, 26, 238, 27, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 447, 28, 250, 251, 252, 253, 254, 255, or 256. In certain such
5 embodiments, an antisense compound targeted to nucleotides 1490-1564 of SEQ ID NO: 3 is selected from ISIS NOs: 410756, 405604, 406033, 395164, 399886, 406034, 399800, 399956, 406035, 410757, 406036, 406037, 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663,
10 405880, 410589, or 410758.

In certain embodiments, a target region is nucleotides 1500-1526 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1500-1526 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 26, 238, 27, or 239. In certain such
15 embodiments, an antisense compound targeted to nucleotides 1500-1526 of SEQ ID NO: 3 is selected from ISIS NOs: 395164, 399886, 406034, 399800, 399956, or 406035.

In certain embodiments, a target region is nucleotides 1515-1541 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1515-1541 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 240, 241, or 242. In certain such embodiments, an antisense compound targeted to nucleotides 1515-1541 of SEQ ID NO: 3 is selected from ISIS NOs: 399886, 406034, 399800, 399956, or 406035.

In certain embodiments, a target region is nucleotides 1527-1553 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1527-1553 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 243, 244, 245, 246, 247, 248, 447, 28 or 249. In certain such embodiments, an antisense compound targeted to nucleotides 1527-1553 of SEQ ID NO: 3 is selected from ISIS NOs: 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588,
30 410663, 405880, 410589, 410664, 395165, 399887, or 410665.

In certain embodiments, a target region is nucleotides 1527-1554 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1527-1554 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 243, 244, 245, 246, 247, 248, 249, 447, 28, or 250. In certain such embodiments, an antisense compound targeted to nucleotides 1527-1554 of SEQ ID NO: 3 is selected from ISIS NOs: 410536, 410583, 410658, 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 5 410663, 405880, 410589, 410664, 395165, 399887, 405881, 410590, 410666, or 410665.

In certain embodiments, a target region is nucleotides 1528-1554 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1528-1554 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 244, 245, 246, 247, 248, 249, 447, 28, or 250. 10 In certain such embodiments, an antisense compound targeted to nucleotides 1528-1554 of SEQ ID NO: 3 is selected from ISIS NOs: 410537, 410584, 410659, 406038, 410585, 410660, 405877, 410586, 410661, 405878, 410587, 410662, 405879, 410588, 410663, 405880, 410589, 410664, 395165, 399887, 409126, 410665, or 405881.

In certain embodiments, a target region is nucleotides 1529-1555 of SEQ ID NO: 3. In 15 certain embodiments, an antisense compound is targeted to nucleotides 1529-1555 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 245, 246, 247, 248, 249, 447, 28, 250 or 251. In certain such embodiments, an antisense compound targeted to nucleotides 1529-1555 of SEQ ID NO: 3 is selected from ISIS NOs: 406038, 395165, 399887, 405877, 405878, 405879, 20 405880, 405881, 405882, 409126, 410585, 410586, 410587, 410588, 410589, 410590, 410591, 410660, 410661, 410662, 410663, 410664, 410665, 410666, 410667, or 410667.

In certain embodiments, a target region is nucleotides 1529-1556 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1529-1556 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a 25 nucleotide sequence selected from SEQ ID NOs: 245, 246, 247, 248, 249, 447, 28, 250, 251, or 252. In certain such embodiments, an antisense compound targeted to nucleotides 1529-1556 of SEQ ID NO: 3 is selected from ISIS NOs: 406038, 395165, 399887, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 409126, 410585, 410586, 410587, 410588, 410589, 410590, 410591, 410592, 410660, 410661, 410662, 410663, 410664, 410665, 410666, 410667, or 30 410668.

In certain embodiments, a target region is nucleotides 1530-1556 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1530-1556 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 246, 247, 248, 249, 447, 28, 250, 251, or 252. In certain such embodiments, an antisense compound targeted to nucleotides 1530-1556 of SEQ ID NO: 3 is selected from ISIS NOs: 406038, 395165, 399887, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 409126, 410585, 410586, 410587, 410588, 410589, 410590, 5 410591, 410592, 410660, 410661, 410662, 410663, 410664, 410665, 410666, 410667, 405884, 410593, 410669 or 410668.

In certain embodiments, a target region is nucleotides 1530-1557 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1530-1557 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a 10 nucleotide sequence selected from SEQ ID NOs: 28, 246, 247, 248, 249, 250, 251, 252, 253, or 447. In certain such embodiments, an antisense compound targeted to nucleotides 1530-1557 of SEQ ID NO: 3 is selected from ISIS NOs: 395165, 399887, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 409126, 410586, 410587, 410588, 410589, 410590, 410591, 410592, 410593, 410661, 410662, 410663, 410664, 410665, 410666, 410667, 410668, or 15 410669.

In certain embodiments, a target region is nucleotides 1531-1557 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1531-1557 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 247, 248, 249, 250, 251, 252, 253, or 447. 20 In certain such embodiments, an antisense compound targeted to nucleotides 1531-1557 of SEQ ID NO: 3 is selected from ISIS NOs: 395165, 399887, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 409126, 410587, 410588, 410589, 410590, 410591, 410592, 410593, 410662, 410663, 410664, 410665, 410666, 410667, 410668, or 410669.

In certain embodiments, a target region is nucleotides 1532-1558 of SEQ ID NO: 3. In 25 certain embodiments, an antisense compound is targeted to nucleotides 1532-1558 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 248, 249, 250, 251, 252, 253, 254 or 447. In certain such embodiments, an antisense compound targeted to nucleotides 1532-1558 of SEQ ID NO: 3 is selected from ISIS NOs: 405879, 410588, 410663, 405880, 410589, 410664, 30 395165, 399887, 410665, 405881, 410590, 410666, 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, or 410670.

In certain embodiments, a target region is nucleotides 1533-1559 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1533-1559 SEQ ID NO:

3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 28, 249, 250, 251, 252, 253, 254, 255 or 447.

In certain such embodiments, an antisense compound targeted to nucleotides 1533-1559 of SEQ ID NO: 3 is selected from ISIS NOs: 405880, 410589, 410664, 395165, 399887, 410665,

5 405881, 410590, 410666, 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, or 410671.

In certain embodiments, a target region is nucleotides 1534-1559 of SEQ ID NO: 3. In

certain embodiments, an antisense compound is targeted to nucleotides 1534-1559 SEQ ID NO:

3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

10 nucleotide sequence selected from SEQ ID NOs: 28, 250, 251, 252, 253, 254, 255 or 447. In

certain such embodiments, an antisense compound targeted to nucleotides 1534-1559 of SEQ ID

NO: 3 is selected from ISIS NOs: 395165, 399887, 410665, 405881, 410590, 410666, 405882,

410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670,

or 410671.

15 In certain embodiments, a target region is nucleotides 1535-1559 of SEQ ID NO: 3. In

certain embodiments, an antisense compound is targeted to nucleotides 1535-1559 SEQ ID NO:

3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 250, 251, 252, 253, 254, 255 or 447. In certain

such embodiments, an antisense compound targeted to nucleotides 1535-1559 of SEQ ID NO: 3

20 is selected from ISIS NOs: 405881, 410590, 410666, 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594 or 410671.

In certain embodiments, a target region is nucleotides 1536-1559 of SEQ ID NO: 3. In

certain embodiments, an antisense compound is targeted to nucleotides 1536-1559 SEQ ID NO:

3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

25 nucleotide sequence selected from SEQ ID NOs: 251, 252, 253, 254, or 255. In certain such

embodiments, an antisense compound targeted to nucleotides 1536-1559 of SEQ ID NO: 3 is

selected from ISIS NOs: 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593,

410669, 410538, 410594, 410670, 410539, 410595, or 410671.

In certain embodiments, a target region is nucleotides 1537-1564 of SEQ ID NO: 3. In

30 certain embodiments, an antisense compound is targeted to nucleotides 1537-1564 SEQ ID NO:

3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 251, 252, 253, 254, 255, or 256. In certain such

embodiments, an antisense compound targeted to nucleotides 1537-1564 of SEQ ID NO: 3 is

selected from ISIS NOs: 405882, 410591, 410667, 405883, 410592, 410668, 405884, 410593, 410669, 410538, 410594, 410670, 410539, 410595, 410671, or 410758.

In certain embodiments, a target region is nucleotides 1566-1602 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1566-1602 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 29, 30, 31, 32, 257, 258, 259, 260, 261, or 262. In certain such embodiments, an antisense compound targeted to nucleotides 1566-1602 of SEQ ID NO: 3 is selected from ISIS NOs: 395166, 395167, 395168, 399801, 399888, 399889, 399890, 399957, 405909, 405910, 405911, 405912, 406039, 406040, 406041, 406042, 406043, or 406044.

In certain embodiments, a target region is nucleotides 1566-1681 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1566-1681 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 29, 30, 31, 32, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, or 272. In certain such embodiments, an antisense compound targeted to nucleotides 1566-1681 of SEQ ID NO: 3 is selected from ISIS NOs: 395166, 395167, 395168, 399801, 399888, 399889, 399890, 399957, 405909, 405910, 405911, 405912, 406039, 406040, 406041, 406042, 406043, 406044, 406045, 408642, 410759, 410760, 410761, or 410762.

In certain embodiments, a target region is nucleotides 1606-1626 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1606-1626 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 264 or 31. In certain such embodiments, an antisense compound targeted to nucleotides 1606-1626 of SEQ ID NO: 3 is selected from ISIS NOs: 408642, 395167, or 399889.

In certain embodiments, a target region is nucleotides 1618-1645 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1618-1645 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 265 or 266. In certain such embodiments, an antisense compound targeted to nucleotides 1618-1645 of SEQ ID NO: 3 is selected from ISIS NOs: 410760 or 406045.

In certain embodiments, a target region is nucleotides 1626-1653 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1626-1653 SEQ ID NO:

3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 32, 266, 267, 268, or 269. In certain such embodiments, an antisense compound targeted to nucleotides 1626-1653 of SEQ ID NO: 3 is selected from ISIS NOs: 395168, 399890, 405909, 405910, 405911, or 406045.

5 In certain embodiments, a target region is nucleotides 1684-1703 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1684-1703 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 273. In certain such embodiments, an antisense compound targeted to nucleotides 1684-1703 of SEQ ID NO: 3 is selected from ISIS NOs:
10 410763.

In certain embodiments, a target region is nucleotides 1730-1781 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1730-1781 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 33, 33, 274, 275, 276, 277, 278, 279, 280, 281,
15 282, 283, 284, or 285. In certain such embodiments, an antisense compound targeted to nucleotides 1730-1781 of SEQ ID NO: 3 is selected from ISIS NOs: 395169, 399891, 405913, 405914, 405915, 405916, 405917, 405918, 405919, 405920, 405921, 405922, 410734, or 410764.

In certain embodiments, a target region is nucleotides 1740-1767 of SEQ ID NO: 3. In
20 certain embodiments, an antisense compound is targeted to nucleotides 1740-1767 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 33, 275, 276, 277, or 278. In certain such embodiments, an antisense compound targeted to nucleotides 1740-1767 of SEQ ID NO: 3 is selected from ISIS NOs: 395169, 399891, 405913, 405914, 405915, or 405916.

25 In certain embodiments, a target region is nucleotides 1749-1775 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1749-1775 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 279, 280, 281 or 282. In certain such embodiments, an antisense compound targeted to nucleotides 1749-1775 of SEQ ID NO: 3 is
30 selected from ISIS NOs: 410734, 405917, 405918 or 405919.

In certain embodiments, a target region is nucleotides 1758-1781 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1758-1781 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 283, 284, or 285. In certain such embodiments, an antisense compound targeted to nucleotides 1758-1781 of SEQ ID NO: 3 is selected from ISIS NOs: 405920, 405921, or 405922.

5 In certain embodiments, a target region is nucleotides 1820-1847 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1820-1847 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 39, 306, 307, 308, or 309. In certain such embodiments, an antisense compound targeted to nucleotides 1820-1847 of SEQ ID NO: 3 is selected from ISIS NOs: 395175, 399897, 405937, 405938, 405939, or 405940.

10 In certain embodiments, a target region is nucleotides 1820-1877 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1820-1877 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 39, 40, 41, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, or 318. In certain such embodiments, an antisense compound targeted to nucleotides 1820-1877 of SEQ ID NO: 3 is selected from ISIS NOs: 395175, 399804, 399805, 399897, 399960, 399961, 405937, 405938, 405939, 405940, 405941, 405942, 405943, 405944, 405945, 405946, 405947, 410737, or 410769.

15 In certain embodiments, a target region is nucleotides 1822-2198 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1822-2198 SEQ ID NO: 20 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 39, 307, 308, 309, 310, 40, 311, 312, 313, 314, 315, 41, 41, 316, 317, 318, 101, 319, 42, 320, 321, 322, 43, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 44, 335, 336, 337, 45, 338, 46, 339, 340, 47, 341, 342, 48, 343, 344, 345, 346, 347, 3, or 366. In certain such embodiments, an antisense compound targeted to 25 nucleotides 1822-2198 of SEQ ID NO: 3 is selected from ISIS NOs: 395175, 399897, 405938, 405939, 405940, 405941, 399804, 399960, 405942, 405943, 410737, 405944, 405945, 399805, 399961, 405946, 405947, 410769, 395176, 399898, 405948, 399806, 399962, 405949, 405950, 405951, 399807, 399963, 405952, 410738, 405953, 405954, or 405979.

30 In certain embodiments, a target region is nucleotides 1830-1856 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1830-1856 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 40, 310, 311, or 312. In certain such

embodiments, an antisense compound targeted to nucleotides 1830-1856 of SEQ ID NO: 3 is selected from ISIS NOs: 399804, 399960, 405941, 405942, or 405943.

In certain embodiments, a target region is nucleotides 1839-1865 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1839-1865 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 41, 313, 314, 315, or 316. In certain such embodiments, an antisense compound targeted to nucleotides 1839-1865 of SEQ ID NO: 3 is selected from ISIS NOs: 399805, 399961, 405944, 405945, 405946, or 410737.

In certain embodiments, a target region is nucleotides 1840-1867 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1840-1867 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 314, 315, 316, or 317. In certain such embodiments, an antisense compound targeted to nucleotides 1840-1867 of SEQ ID NO: 3 is selected from ISIS NOs: 399961, 405944, 405945, 405946, 410737, or 405947.

In certain embodiments, a target region is nucleotides 1898-1924 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1898-1924 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 42, 101, 319, or 320. In certain such embodiments, an antisense compound targeted to nucleotides 1898-1924 of SEQ ID NO: 3 is selected from ISIS NOs: 395176, 399898, 405948, 399806, 399962, 405949, or 405949.

In certain embodiments, a target region is nucleotides 1898-2035 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1898-2035 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 87, 101, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, or 359. In certain such embodiments, an antisense compound targeted to nucleotides 1898-2035 of SEQ ID NO: 3 is selected from ISIS NOs: 395176, 395177, 395178, 395179, 399806, 399807, 399808, 399809, 399810, 399811, 399812, 399813, 399898, 399899, 399900, 399901, 399962, 399963, 399964, 399965, 399966, 399967, 399968, 399969, 405885, 405886, 405887, 405888, 405889, 405890, 405891, 405892, 405948, 405949, 405950, 405951, 405952, 405953, 405954, 405955, 405956, 405957, 405958, 405959, 405960, 405961, 405962, 405963, 405964, 405965, 405966, 405967, 405968, 405969, 405970, 405971, 405972, 405973, 405974,

408653, 410540, 410596, 410597, 410598, 410599, 410600, 410601, 410602, 410603, 410604, 410672, 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680, 410681, 410682, 410738, 410739, 410740, or 410770.

In certain embodiments, a target region is nucleotides 1903-2127 of SEQ ID NO: 3. In
5 certain embodiments, an antisense compound is targeted to nucleotides 1903-2127 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 42, 320, 321, 322, 43, 323, 324, 325, 326, 327,
328, 329, 330, 331, 332, 333, 334, 44, 335, 336, 337, 45, 338, 46, 339, 340, 47, 341, 342, 48,
343, 344, 345, 346, 347, 348, 349, 49, 350, 351, 352, 353, 50, 354, 355, 356, 357, 87, 358, 359,
10 51, 119, 360, or 54. In certain such embodiments, an antisense compound targeted to nucleotides
1903-2127 of SEQ ID NO: 3 is selected from ISIS NOs: 399806, 399962, 405949, 405950,
405951, 399807, 399963, 405952, 410738, 405953, 405954, 410770, 405955, 405956, 405957,
405958, 405959, 405960, 405961, 399808, 399964, 405962, 410739, 405963, 395177, 399899,
405964, 399809, 399965, 405965, 405966, 399810, or 399967.

15 In certain embodiments, a target region is nucleotides 1907-1934 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1907-1934 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 43, 321, 322, 323, or 324. In certain such
embodiments, an antisense compound targeted to nucleotides 1907-1934 of SEQ ID NO: 3 is
20 selected from ISIS NOs: 405950, 405951, 399807, 399963, 405952, or 410738.

In certain embodiments, a target region is nucleotides 1911-1938 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1911-1938 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
nucleotide sequence selected from SEQ ID NOs: 43, 323, 324, 325, or 326. In certain such
25 embodiments, an antisense compound targeted to nucleotides 1911-1938 of SEQ ID NO: 3 is
selected from ISIS NOs: 399807, 399963, 405952, 410738, 405953, or 405954.

In certain embodiments, a target region is nucleotides 1946-1971 of SEQ ID NO: 3. In
certain embodiments, an antisense compound is targeted to nucleotides 1946-1971 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 328, 329, 330, or 331. In certain such
embodiments, an antisense compound targeted to nucleotides 1946-1971 of SEQ ID NO: 3 is
selected from ISIS NOs: 405955, 405956, 405957, or 405958.

In certain embodiments, a target region is nucleotides 1954-1980 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1954-1980 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 44, 332, 333, 334, or 335. In certain such
5 embodiments, an antisense compound targeted to nucleotides 1954-1980 of SEQ ID NO: 3 is selected from ISIS NOs: 405959, 405960, 405961, 399808, 399964, or 405962.

In certain embodiments, a target region is nucleotides 1959-2035 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1959-2035 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
10 nucleotide sequence selected from SEQ ID NOs: 44, 335, 336, 337, 45, 338, 46, 339, 340, 47, 341, 342, 48, 343, 344, 345, 346, 347, 348, 349, 49, 350, 351, 352, 353, 50, 354, 355, 356, 357, 87, 358, 359, or 51. In certain such embodiments, an antisense compound targeted to nucleotides 1959-2035 of SEQ ID NO: 3 is selected from ISIS NOs: 399808, 399964, 405962, 410739, 405963, 395177, 399899, 405964, 399809, 399965, 405965, 405966, 399810, 399966, 405967,
15 405968, 399811, 399967, 405969, 405970, 410740, 405885, 405886, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, or 399969.

In certain embodiments, a target region is nucleotides 1959-2057 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1959-2057 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
20 nucleotide sequence selected from SEQ ID NOs: 44, 335, 336, 337, 45, 338, 46, 339, 340, 47, 341, 342, 48, 343, 344, 345, 346, 347, 348, 349, 49, 350, 351, 352, 353, 50, 354, 355, 356, 357, 87, 358, 359, 51, or 119. In certain such embodiments, an antisense compound targeted to nucleotides 1959-2057 of SEQ ID NO: 3 is selected from ISIS NOs: 399808, 399964, 405962, 410739, 405963, 395177, 399899, 405964, 399809, 399965, 405965, 405966, 399810, 399966,
25 405967, 405968, 399811, 399967, 405969, 405970, 410740, 405885, 405886, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, or 399902.

In certain embodiments, a target region is nucleotides 1963-1988 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1963-1988 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 45, 336, 337 or 338. In certain such embodiments, an antisense compound targeted to nucleotides 1963-1988 of SEQ ID NO: 3 is selected from ISIS NOs: 410739, 405963, 395177, 399899, or 405964.

In certain embodiments, a target region is nucleotides 1967-2035 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1967-2035 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 45, 338, 46, 339, 340, 47, 341, 342, 48, 343, 5 344, 345, 346, 347, 348, 349, 49, 350, 351, 352, 353, 50, 354, 355, 356, 357, 87, 358, 359 or 51. In certain such embodiments, an antisense compound targeted to nucleotides 1967-2035 of SEQ ID NO: 3 is selected from ISIS NOs: 395177, 399899, 405964, 399809, 399965, 405965, 405966, 399810, 399966, 405967, 405968, 399811, 399967, 405969, 405970, 410740, 405885, 405886, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, 405889, 10 410598, 410675, 405890, 410599, or 399969.

In certain embodiments, a target region is nucleotides 1972-1999 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1972-1999 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 46, 47, 339, 340, or 341. In certain such 15 embodiments, an antisense compound targeted to nucleotides 1972-1999 of SEQ ID NO: 3 is selected from ISIS NOs: 399809, 399965, 405965, 405966, 399810, 399966, or 405967.

In certain embodiments, a target region is nucleotides 1982-2008 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1982-2008 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a 20 nucleotide sequence selected from SEQ ID NOs: 48, 342, 343, or 344. In certain such embodiments, an antisense compound targeted to nucleotides 1982-2008 of SEQ ID NO: 3 is selected from ISIS NOs: 405968, 399811, 399967, 405969, or 405970.

In certain embodiments, a target region is nucleotides 1991-2018 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1991-2018 SEQ ID NO: 25 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 345, 346, 347, 348, 349, 350, or 351. In certain such embodiments, an antisense compound targeted to nucleotides 1991-2018 of SEQ ID NO: 3 is selected from ISIS NOs: 399812, 399968, 405885, 405886, 405887, 405888, 405889, 405890, 410596, 410597, 410598, 410599, 410672, 410673, 410674, 410675, 410676, or 30 410740.

In certain embodiments, a target region is nucleotides 1993-2019 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1993-2019 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 49, 346, 347, 348, 349, 350, or 354. In certain such embodiments, an antisense compound targeted to nucleotides 1993-2019 of SEQ ID NO: 3 is selected from ISIS NOs: 405885, 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, or
5 410677.

In certain embodiments, a target region is nucleotides 1995-2022 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1995-2022 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 348, 349, 350, 351, 352, 353, 50, or 351 In
10 certain such embodiments, an antisense compound targeted to nucleotides 1995-2022 of SEQ ID NO: 3 is selected from ISIS NOs: 405887, 410596, 410672, 405888, 410597, 410673, 399812, 399968, 410674, 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 405892, 410601, 410678, 395178, 399900, 410679, 408653, 410602, or 410680.

In certain embodiments, a target region is nucleotides 1996-2023 of SEQ ID NO: 3. In
15 certain embodiments, an antisense compound is targeted to nucleotides 1996-2023 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 49, 50, 349, 350, 351, 352, 353, 354, or 355. In certain such embodiments, an antisense compound targeted to nucleotides 1996-2023 of SEQ ID NO: 3 is selected from ISIS NOs: 395178, 399812, 399900, 399968, 405888, 405889, 405890,
20 405891, 405892, 405971, 408653, 410597, 410598, 410599, 410600, 410601, 410602, 410603, 410673, 410674, 410675, 410676, 410677, 410678, 410679, 410680, or 410681.

In certain embodiments, a target region is nucleotides 1997-2024 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1997-2024 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 49, 50, 350, 351, 352, 353, 354, 355, or 356. In certain such embodiments, an antisense compound targeted to nucleotides 1997-2024 of SEQ ID NO: 3 is selected from ISIS NOs: 399812, 399968, 410674, 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, or 410682.

In certain embodiments, a target region is nucleotides 1998-2025 of SEQ ID NO: 3. In
30 certain embodiments, an antisense compound is targeted to nucleotides 1998-2025 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 50, 350, 351, 352, 353, 354, 355, 356 or 357.

In certain such embodiments, an antisense compound targeted to nucleotides 1998-2025 of SEQ ID NO: 3 is selected from ISIS NOs: 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, 410682, or 405972.

5 In certain embodiments, a target region is nucleotides 1999-2025 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 1999-2025 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 50, 351, 352, 353, 354, 355, 356, or 357. In certain such embodiments, an antisense compound targeted to nucleotides 1999-2025 of SEQ ID
10 NO: 3 is selected from ISIS NOs: 405889, 410598, 410675, 405890, 410599, 410676, 405891, 410600, 410677, 405892, 410601, 410678, 395178, 399900, 410679, 408653, 410602, 410680, 405971, 410603, 410681, 410540, 410604, 410682, or 405972.

In certain embodiments, a target region is nucleotides 2000-2025 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2000-2025 SEQ ID NO:
15 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 351, 352, 353, 354, 355, 356, or 357. In certain such embodiments, an antisense compound targeted to nucleotides 2000-2025 of SEQ ID
NO: 3 is selected from ISIS NOs: 405890, 410599, 410676, 405891, 410600, 410677, 405892,
410601, 410678, 395178, 399900, 410679, 408653, 410602, 410680, 405971, 410603, 410681,
20 410540, 410604, 410682, or 405972.

In certain embodiments, a target region is nucleotides 2009-2035 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2009-2035 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 51, 87, 358, or 359. In certain such
25 embodiments, an antisense compound targeted to nucleotides 2009-2035 of SEQ ID NO: 3 is selected from ISIS NOs: 395179, 399813, 399901, 399969, 405973, or 405974.

In certain embodiments, a target region is nucleotides 2038-2139 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2038-2139 SEQ ID NO:
3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 52, 53, 54, 104, 119, 130, 360, 361, 362, 363,
30 365, 366, 367, 368, 369, 370, or 371. In certain such embodiments, an antisense compound targeted to nucleotides 2038-2139 of SEQ ID NO: 3 is selected from ISIS NOs: 395180, 395181,

395182, 395220, 399814, 399836, 399902, 399903, 399904, 399942, 399970, 399992, 405975, 405976, 405977, 405978, 405979, 405980, 405981, 405982, 405983, 410741, or 410771.

In certain embodiments, a target region is nucleotides 2061-2139 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2061-2139 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 52, 53, 54, 104, 130, 360, 361, 362, 363, 365, 366, 367, 368, 369, 370, or 371. In certain such embodiments, an antisense compound targeted to nucleotides 2061-2139 of SEQ ID NO: 3 is selected from ISIS NOs: 395181, 395182, 395220, 399814, 399836, 399903, 399904, 399942, 399970, 399992, 405975, 405976, 405977, 405978, 405979, 405980, 405981, 405982, 405983, 410741, or 410771.

In certain embodiments, a target region is nucleotides 2073-2099 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2073-2099 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 52, 53, 361, or 362. In certain such embodiments, an antisense compound targeted to nucleotides 2073-2099 of SEQ ID NO: 3 is selected from ISIS NOs: 395181, 399814, 399903, 399970, 405975, or 405976.

In certain embodiments, a target region is nucleotides 2078-2104 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2078-2104 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 53, 104, 362, or 363. In certain such embodiments, an antisense compound targeted to nucleotides 2078-2104 of SEQ ID NO: 3 is selected from ISIS NOs: 395220, 399814, 399942, 399970, 405976, or 405977.

In certain embodiments, a target region is nucleotides 2105-2131 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2105-2131 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 54, 365, 366, or 367. In certain such embodiments, an antisense compound targeted to nucleotides 2105-2131 of SEQ ID NO: 3 is selected from ISIS NOs: 395182, 399904, 405978, 405979, or 405980.

In certain embodiments, a target region is nucleotides 2112-2139 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2112-2139 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 367, 368, 369, 370, or 371. In certain such

embodiments, an antisense compound targeted to nucleotides 2112-2139 of SEQ ID NO: 3 is selected from ISIS NOs: 405980, 405981, 410741, 405982, or 405983.

In certain embodiments, a target region is nucleotides 2168-2198 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2168-2198 SEQ ID NO:

5 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 56, 372, 373, 374, or 375. In certain such embodiments, an antisense compound targeted to nucleotides 2168-2198 of SEQ ID NO: 3 is selected from ISIS NOs: 399815, 399816, 399971, 399972, 405641, 405984, 405985, 405986, or 405987.

10 In certain embodiments, a target region is nucleotides 2170-2177 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2170-2177 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 55, 373, 374, or 375. In certain such embodiments, an antisense compound targeted to nucleotides 2170-2177 of SEQ ID NO: 3 is
15 selected from ISIS NOs: 399815, 399971, 405641, 405985, 405986, or 405987.

In certain embodiments, a target region is nucleotides 2245-2284 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2245-2284 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid
20 comprises a nucleotide sequence selected from SEQ ID NOs: 408 or 409. In certain such embodiments, an antisense compound targeted to nucleotides 2245-2284 of SEQ ID NO: 3 is selected from ISIS NOs: 410776 or 410777.

In certain embodiments, a target region is nucleotides 2295-2394 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2295-2394 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 60, 61, 410, 411, 412, 413, 414, 415, or 416. In certain such embodiments, an antisense compound targeted to nucleotides 2295-2394 of SEQ ID NO: 3 is selected from ISIS NOs: 395186, 399817, 399908, 399973, 405996, 405997, 410562, 410563, 410564, 410633, 410634, 410635, 410636, 410713, 410714, 410715, 410716, 410717, 410718, 410778, or 410779.

30 In certain embodiments, a target region is nucleotides 2355-2381 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2355-2381 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 411, 412, 413, 414, or 415. In certain

such embodiments, an antisense compound targeted to nucleotides 2355-2381 of SEQ ID NO: 3 is selected from ISIS NOs: 395186, 399817, 399908, 399973, 405996, 405997, 410562, 410563, 410564, 410633, 410634, 410635, 410636, 410713, 410714, 410715, 410716, 410717, or 410718.

5 In certain embodiments, a target region is nucleotides 2355-2394 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2355-2394 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 60, 61, 411, 412, 413, 414, 415, or 416. In certain such embodiments, an antisense compound targeted to nucleotides 2355-2394 of SEQ ID
10 NO: 3 is selected from ISIS NOs: 395186, 399817, 399908, 399973, 405996, 405997, 410562, 410563, 410564, 410633, 410634, 410635, 410636, 410713, 410714, 410715, 410716, 410717, 410718, or 410779.

In certain embodiments, a target region is nucleotides 2405-2461 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2405-2461 SEQ ID NO:
15 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 417 or 418. In certain such embodiments, an antisense compound targeted to nucleotides 2405-2461 of SEQ ID NO: 3 is selected from ISIS NOs: 410780 or 410781.

In certain embodiments, a target region is nucleotides 2560-2587 of SEQ ID NO: 3. In
20 certain embodiments, an antisense compound is targeted to nucleotides 2560-2587 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 419, 420, 421, 422, 423, 424, 425, or 426. In certain such embodiments, an antisense compound targeted to nucleotides 2560-2587 of SEQ ID NO: 3 is selected from ISIS NOs: 395187, 399909, 405998, 410565, 410566, 410567,
25 410568, 410569, 410570, 410571, 410637, 410638, 410639, 410640, 410641, 410642, 410643, 410644, 410719, 410720, 410721, 410722, 410723, 410724, 410725, 410726, or 410727.

In certain embodiments, a target region is nucleotides 2560-2609 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2560-2609 SEQ ID NO:
30 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, or 430. In certain such embodiments, an antisense compound targeted to nucleotides 2560-2609 of SEQ ID NO: 3 is selected from ISIS NOs: 395187, 399909, 405998, 410565, 410566, 410567, 410568, 410569, 410570, 410571, 410572, 410573, 410637, 410638, 410639,

410640, 410641, 410642, 410643, 410644, 410645, 410646, 410719, 410720, 410721, 410722, 410723, 410724, 410725, 410726, 410727, 410728, or 410783.

In certain embodiments, a target region is nucleotides 2561-2588 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2561-2588 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 420, 421, 422, 423, 424, 425, 426, 427, or 62. In certain such embodiments, an antisense compound targeted to nucleotides 2561-2588 of SEQ ID NO: 3 is selected from ISIS NOs: 410566, 410638, 410720, 410567, 410639, 410721, 410568, 410640, 410722, 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405988, 405998, 410644, 410727, 410572, 410645, or 410728.

In certain embodiments, a target region is nucleotides 2562-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2562-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 62, 421, 422, 423, 424, 425, 426, 427, or 428. In certain such embodiments, an antisense compound targeted to nucleotides 2562-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 395187, 399909, 405998, 410567, 410568, 410569, 410570, 410571, 410572, 410573, 410639, 410640, 410641, 410642, 410643, 410644, 410645, 410646, 410721, 410722, 410723, 410724, 410725, 410726, 410727, 410728, or 410729.

In certain embodiments, a target region is nucleotides 2563-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2563-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 422, 423, 424, 425, 426, 427, 428 or 62. In certain such embodiments, an antisense compound targeted to nucleotides 2563-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 410568, 410640, 410722, 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405988, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2564-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2564-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 423, 424, 425, 426, 427, 428 or 62. In certain such embodiments, an antisense compound targeted to nucleotides 2564-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 410569, 410641, 410723, 395187, 399909, 410724, 410570, 410642,

410725, 410571, 410643, 410726, 405988, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2565-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2565-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 424, 425, 426, 427, 428 or 62. In certain such embodiments, an antisense compound targeted to nucleotides 2565-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 395187, 399909, 410724, 410570, 410642, 410725, 410571, 410643, 410726, 405988, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2566-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2566-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 424, 425, 426, 427, or 428. In certain such embodiments, an antisense compound targeted to nucleotides 2566-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 410570, 410642, 410725, 410571, 410643, 410726, 405988, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2567-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2567-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 425, 426, 427, or 428. In certain such embodiments, an antisense compound targeted to nucleotides 2567-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 410571, 410643, 410726, 405988, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2568-2589 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2568-2589 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 426, 427 or 428. In certain such embodiments, an antisense compound targeted to nucleotides 2568-2589 of SEQ ID NO: 3 is selected from ISIS NOs: 405988, 405998, 410644, 410727, 410572, 410645, 410728, 410573, 410646, or 410729.

In certain embodiments, a target region is nucleotides 2665-2689 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2665-2689 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a

nucleotide sequence selected from SEQ ID NOs: 63 or 154. In certain such embodiments, an antisense compound targeted to nucleotides 2665-2689 of SEQ ID NO: 3 is selected from ISIS NOs: 395188, 399910, 399818, or 399974.

5 In certain embodiments, a target region is nucleotides 2759-2783 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2759-2783 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 64 or 65. In certain such embodiments, an antisense compound targeted to nucleotides 2759-2783 of SEQ ID NO: 3 is selected from ISIS NOs: 395189, 399911, 399819, or 399975.

10 In certain embodiments, a target region is nucleotides 2837-2880 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2837-2880 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 66, 67, or 122. In certain such embodiments, an antisense compound targeted to nucleotides 2837-2880 of SEQ ID NO: 3 is selected from ISIS
15 NOs: 399820, 399976, 395190, 399912, 395191, or 399913.

In certain embodiments, a target region is nucleotides 2904-2923 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 2904-2923 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 153. In certain such embodiments, an antisense
20 compound targeted to nucleotides 2904-2923 of SEQ ID NO: 3 is selected from ISIS NOs: 395192 or 399914.

In certain embodiments, a target region is nucleotides 3005-3024 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3005-3024 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
25 nucleotide sequence selected from SEQ ID NOs: 68. In certain such embodiments, an antisense compound targeted to nucleotides 3005-3024 of SEQ ID NO: 3 is selected from ISIS NOs: 395193 or 399915.

In certain embodiments, a target region is nucleotides 3005-3174 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3005-3174 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a
30 nucleotide sequence selected from SEQ ID NOs: 68, 431, 432, 433, 434, 69, 435, 436, 437, 438 or 70. In certain such embodiments, an antisense compound targeted to nucleotides 3005-3174

of SEQ ID NO: 3 is selected from ISIS NOs: 395193, 399915, 405893, 405894, 405895, 405896, 395194, 399916, 405897, 405898, 405899, 405900, 395195, or 399917.

In certain embodiments, a target region is nucleotides 3083-3110 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3083-3110 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 69, 69, 431, 432, 433, 434, 435, 436, 437, or 438. In certain such embodiments, an antisense compound targeted to nucleotides 3083-3110 of SEQ ID NO: 3 is selected from ISIS NOs: 395194, 399916, 405893, 405894, 405895, 405896, 405897, 405898, 405899, or 405900.

10 In certain embodiments, a target region is nucleotides 3155-3184 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3155-3184 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 70, 71, 439, 440, 441, 442, 443, 444, 445, or 446. In certain such embodiments, an antisense compound targeted to nucleotides 3155-3184 of SEQ ID NO: 3 is selected from ISIS NOs: 395195, 399821, 399917, 399977, 405901, 405902, 15 405903, 405904, 405905, 405906, 405907, or 405908.

In certain embodiments, a target region is nucleotides 3238-3268 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3238-3268 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 72, 73, or 135. In certain such embodiments, an antisense compound targeted to nucleotides 3238-3268 of SEQ ID NO: 3 is selected from ISIS NOs: 395196, 399822, 399823, 399918, 399978, or 399979.

In certain embodiments, a target region is nucleotides 3482-3711 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3482-3711 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 74, 75, or 112. In certain such embodiments, an antisense compound targeted to nucleotides 3482-3711 of SEQ ID NO: 3 is selected from ISIS NOs: 395197, 395198, 399824, 399919, 399920, or 399980.

30 In certain embodiments, a target region is nucleotides 3727-3751 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3727-3751 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 76 or 77. In certain such embodiments, an

antisense compound targeted to nucleotides 3727-3751 of SEQ ID NO: 3 is selected from ISIS NOs: 395199, 399921, 399825, or 399981.

In certain embodiments, a target region is nucleotides 3798-3824 of SEQ ID NO: 3. In certain embodiments, an antisense compound is targeted to nucleotides 3798-3824 SEQ ID NO: 3. In certain embodiments, an antisense compound targeted to a PCSK9 nucleic acid comprises a nucleotide sequence selected from SEQ ID NOs: 78 or 99. In certain such embodiments, an antisense compound targeted to nucleotides 3798-3824 of SEQ ID NO: 3 is selected from ISIS NOs: 395200, 399922, 399826, or 399982.

In certain embodiments, short gapmer antisense compounds are targeted to a PCSK9 nucleic acid. In certain such embodiments, gapmer antisense compounds are targeted to SEQ ID NO: 1, SEQ ID NO: 2 and/or SEQ ID NO: 3. In certain such embodiments, the nucleotide sequences illustrated in Table 14.1 have a 2-10-2 gapmer motif. Table 14.1 illustrates gapmer antisense compounds targeted to SEQ ID NO: 1, SEQ ID NO: 2 and/or SEQ ID NO: 3, having a 2-10-2 motif, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises nucleotides comprising a 2'-O-methoxyethyl sugar modification. Internucleoside linkages are phosphorothioate, and cytidines are 5-methylcytidines.

Table 14.1: Gapmer antisense compounds having a 2-10-2 motif targeted to SEQ ID NO: 1, SEQ ID NO: 2 and/or SEQ ID NO: 3

Target SEQ ID NO	ISIS NO	Motif	OligoSeq	5' Target Site on SEQ ID NO:1	3' Target Site on SEQ ID NO:1	SEQ ID NO
1	406539	2-10-2	GCCTATGAGGGTGC	1079	1092	458
1	406540	2-10-2	TCCAGGCCTATGAG	1084	1097	459
1	406551	2-10-2	CAGCTCAGCAGCTC	1735	1748	460
1	406595	2-10-2	TTAATCAGGGAGCC	2877	2890	461
2	406551	2-10-2	CAGCTCAGCAGCTC	21181	21194	460
2	406595	2-10-2	TTAATCAGGGAGCC	26684	26697	461
3	406539	2-10-2	GCCTATGAGGGTGC	1609	1622	458
3	406540	2-10-2	TCCAGGCCTATGAG	1614	1627	459
3	406551	2-10-2	CAGCTCAGCAGCTC	2168	2181	460
3	406595	2-10-2	TTAATCAGGGAGCC	3132	3145	461

In a certain embodiment, a short antisense compound has increased potency compared to a 20 nucleotide compound. In a certain embodiment such short antisense compound and 20

nucleotide compound target the same region. In a certain embodiment, a short antisense compound has increased potency compared to a 20 nucleotide compound containing the sequence of the short antisense compound.

In certain embodiments, the desired effect is a reduction in mRNA target nucleic acid levels. In other embodiments, the desired effect is reduction of levels of protein encoded by the target nucleic acid or a phenotypic change associated with the target nucleic acid.

In one embodiment, a target region is a structurally defined region of the nucleic acid. For example, a target region may encompass a 3' UTR, a 5' UTR, an exon, an intron, a coding region, a translation initiation region, translation termination region, or other defined nucleic acid region. In other embodiments, a target region may encompass the sequence from a 5' target site of one target segment within the target region to a 3' target site of another target segment within the target region.

Targeting includes determination of at least one target segment to which an antisense compound hybridizes, such that a desired effect occurs. A target region may contain one or more target segments. Multiple target segments within a target region may be overlapping. Alternatively, they may be non-overlapping. In one embodiment, target segments within a target region are separated by no more than about 10 nucleotides on the target nucleic acid. In another embodiment, target segments within a target region are separated by no more than about 5 nucleotides on the target nucleic acid. In additional embodiments, target segments are contiguous.

Suitable target segments may be found within a 5' UTR, a coding region, a 3' UTR, an intron, or an exon. Target segments containing a start codon or a stop codon are also suitable target segments.

The determination of suitable target segments may include a comparison of the sequence of a target nucleic acid to other sequences throughout the genome. For example, the BLAST algorithm may be used to identify regions of similarity amongst different nucleic acids. This comparison can prevent the selection of antisense compound sequences that may hybridize in a non-specific manner to sequences other than a selected target nucleic acid (i.e., non-target or off-target sequences).

There may be variation in activity (e.g., as defined by percent reduction of target nucleic acid levels) of the antisense compounds within an active target region. In one embodiment, reductions in PCSK9 mRNA levels are indicative of inhibition of PCSK9 expression. Reductions in levels of a PCSK9 protein are also indicative of inhibition of target mRNA expression.

Further, phenotypic changes are indicative of inhibition of PCSK9 expression. For example, a decrease in LDL-C levels is indicative of inhibition of PCSK9 expression.

Hybridization

5 For example, hybridization may occur between an antisense compound disclosed herein and a PCSK9 nucleic acid. The most common mechanism of hybridization involves hydrogen bonding (e.g., Watson-Crick, Hoogsteen or reversed Hoogsteen hydrogen bonding) between complementary nucleobases of the nucleic acid molecules.

Hybridization can occur under varying conditions. Stringent conditions are sequence-
10 dependent and are determined by the nature and composition of the nucleic acid molecules to be hybridized.

Methods of determining whether a sequence is specifically hybridizable to a target nucleic acid are well known in the art. In one embodiment, the antisense compounds provided herein are specifically hybridizable with a PCSK9 nucleic acid.

15

Complementarity

An antisense compound and a target nucleic acid are complementary to each other when a sufficient number of nucleobases of the antisense compound can hydrogen bond with the corresponding nucleobases of the target nucleic acid, such that a desired effect will occur (e.g.,
20 antisense inhibition of a target nucleic acid, such as a PCSK9 nucleic acid).

Non-complementary nucleobases between an antisense compound and a PCSK9 nucleic acid may be tolerated provided that the antisense compound remains able to specifically hybridize to a target nucleic acid. Moreover, an antisense compound may hybridize over one or more segments of a PCSK9 nucleic acid such that intervening or adjacent segments are not
25 involved in the hybridization event (e.g., a loop structure, mismatch or hairpin structure).

In some embodiments, the antisense compounds provided herein are at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, at least 96%, at least 97%, at least 98% or at least 99% complementary to a PCSK9 nucleic acid. Percent complementarity of an antisense compound with a target nucleic acid can be determined using routine methods.

30

In other embodiments, the antisense compounds provided herein are fully complementary (i.e, 100% complementary) to a target nucleic acid. For example, antisense compound may be fully complementary to a PCSK9 nucleic acid. As used herein, "fully

complementary” means each nucleobase of an antisense compound is capable of precise base pairing with the corresponding nucleobases of a target nucleic acid.

The location of a non-complementary nucleobase may be at the 5' end or 3' end of the antisense compound. Alternatively, the non-complementary nucleobase or nucleobases may be at an internal position of the antisense compound. When two or more non-complementary nucleobases are present, they may be contiguous (i.e. linked) or non-contiguous. In one embodiment, a non-complementary nucleobase is located in the wing segment of a gapmer antisense oligonucleotide.

In one embodiment, antisense compounds up to 20 nucleobases in length comprise no more than 4, no more than 3, no more than 2 or no more than 1 non-complementary nucleobase(s) relative to a target nucleic acid, such as a PCSK9 nucleic acid.

In another embodiment, antisense compounds up to 30 nucleobases in length comprise no more than 6, no more than 5, no more than 4, no more than 3, no more than 2 or no more than 1 non-complementary nucleobase(s) relative to a target nucleic acid, such as a PCSK9 nucleic acid.

The antisense compounds provided herein also include those which are complementary to a portion of a target nucleic acid. As used herein, “portion” refers to a defined number of contiguous (i.e. linked) nucleobases within a region or segment of a target nucleic acid. A “portion” can also refer to a defined number of contiguous nucleobases of an antisense compound. In one embodiment, the antisense compounds are complementary to at least an 8 nucleobase portion of a target segment. In another embodiment, the antisense compounds are complementary to at least a 12 nucleobase portion of a target segment. In yet another embodiment, the antisense compounds are complementary to at least a 15 nucleobase portion of a target segment.

Identity

The antisense compounds provided herein may also have a defined percent identity to a particular nucleotide sequence, SEQ ID NO, or compound represented by a specific Isis number. As used herein, an antisense compound is identical to the sequence disclosed herein if it has the same nucleobase pairing ability. For example, a RNA which contains uracil in place of thymidine in a disclosed DNA sequence would be considered identical to the DNA sequence since both uracil and thymidine pair with adenine. Shortened and lengthened versions of the antisense compounds described herein as well as compounds having non-identical bases relative to the

antisense compounds provided herein also are contemplated. The non-identical bases may be adjacent to each other or dispersed throughout the antisense compound. Percent identity of an antisense compound is calculated according to the number of bases that have identical base pairing relative to the sequence to which it is being compared.

5 In one embodiment, the antisense compounds are at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95% or 100% identical to one or more of the antisense compounds disclosed herein.

Modifications

10 A nucleoside is a base-sugar combination. The nucleobase (also known as base) portion of the nucleoside is normally a heterocyclic base moiety. Nucleotides are nucleosides that further include a phosphate group covalently linked to the sugar portion of the nucleoside. For those nucleosides that include a pentofuranosyl sugar, the phosphate group can be linked to the 2', 3' or 5' hydroxyl moiety of the sugar. Oligonucleotides are formed through the covalent
15 linkage of adjacent nucleosides to one another, to form a linear polymeric oligonucleotide. Within the oligonucleotide structure, the phosphate groups are commonly referred to as forming the internucleoside linkages of the oligonucleotide.

Modifications to antisense compounds encompass substitutions or changes to internucleoside linkages, sugar moieties, or nucleobases. Modified antisense compounds are
20 often preferred over native forms because of desirable properties such as, for example, enhanced cellular uptake, enhanced affinity for nucleic acid target, increased stability in the presence of nucleases, or increased inhibitory activity.

Chemically modified nucleosides may also be employed to increase the binding affinity of a shortened or truncated antisense oligonucleotide for its target nucleic acid. Consequently,
25 comparable results can often be obtained with shorter antisense compounds that have such chemically modified nucleosides.

Modified Internucleoside Linkages

The naturally occurring internucleoside linkage of RNA and DNA is a 3' to 5'
30 phosphodiester linkage. Antisense compounds having one or more modified, i.e. non-naturally occurring, internucleoside linkages are often selected over antisense compounds having naturally occurring internucleoside linkages because of desirable properties such as, for example,

enhanced cellular uptake, enhanced affinity for target nucleic acids, and increased stability in the presence of nucleases.

Oligonucleotides having modified internucleoside linkages include internucleoside linkages that retain a phosphorus atom as well as internucleoside linkages that do not have a phosphorus atom. Representative phosphorus containing internucleoside linkages include, but are not limited to, phosphodiesters, phosphotriesters, methylphosphonates, phosphoramidate, and phosphorothioates. Methods of preparation of phosphorous-containing and non-phosphorous-containing linkages are well known.

In one embodiment, antisense compounds targeted to a PCSK9 nucleic acid comprise one or more modified internucleoside linkages. In some embodiments, the modified internucleoside linkages are phosphorothioate linkages. In other embodiments, each internucleoside linkage of an antisense compound is a phosphorothioate internucleoside linkage.

Modified Sugar Moieties

Antisense compounds targeted to a PCSK9 nucleic acid may contain one or more nucleotides having modified sugar moieties. Sugar modifications may impart nuclease stability, binding affinity or some other beneficial biological property to the antisense compounds. The furanosyl sugar ring of a nucleoside can be modified in a number of ways including, but not limited to: addition of a substituent group, particularly at the 2' position; bridging of two non-geminal ring atoms to form a bicyclic nucleic acid (BNA); and substitution of an atom or group such as -S-, -N(R)- or -C(R₁)(R₂) for the ring oxygen at the 4'-position. Modified sugars include, but are not limited to: substituted sugars, especially 2'-substituted sugars having a 2'-F, 2'-OCH₂ (2'-OMe) or a 2'-O(CH₂)₂-OCH₃ (2'-O-methoxyethyl or 2'-MOE) substituent group; and bicyclic modified sugars (BNAs), having a 4'-(CH₂)_n-O-2' bridge, where n=1 or n=2, including α -L-methyleneoxy (4'-CH₂-O-2') BNA, β -D-methyleneoxy (4'-CH₂-O-2') BNA and ethyleneoxy (4'-(CH₂)₂-O-2') BNA. Bicyclic modified sugars also include (6'S)-6'methyl BNA, aminoxy (4'-CH₂-O-N(R)-2') BNA, oxyamino (4'-CH₂-N(R)-O-2') BNA wherein R is, independently, H, a protecting group or C1-C12 alkyl. The substituent at the 2' position can also be selected from allyl, amino, azido, thio, O-allyl, O-C1-C10 alkyl, OCF₃, O(CH₂)₂SCH₃, O(CH₂)₂-O-N(R_m)(R_n), and O-CH₂-C(=O)-N(R_m)(R_n), where each R_m and R_n is, independently, H or substituted or unsubstituted C1-C10 alkyl. In certain embodiments, such BNA modified nucleotides are high-affinity nucleotides and their incorporation into antisense compounds allows for increased potency and improved therapeutic index. Methods for the preparations of modified sugars are

well known to those skilled in the art.

In nucleotides having modified sugar moieties, the nucleobase moieties (natural, modified or a combination thereof) are maintained for hybridization with an appropriate nucleic acid target.

5 In one embodiment, antisense compounds targeted to a PCSK9 nucleic acid comprise one or more nucleotides having modified sugar moieties. In a suitable embodiment, the modified sugar moiety is 2'-MOE. In other embodiments, the 2'-MOE modified nucleotides are arranged in a gapmer motif.

10 *Modified Nucleobases*

Nucleobase (or base) modifications or substitutions are structurally distinguishable from, yet functionally interchangeable with, naturally occurring or synthetic unmodified nucleobases. Both natural and modified nucleobases are capable of participating in hydrogen bonding. Such nucleobase modifications may impart nuclease stability, binding affinity or some
15 other beneficial biological property to antisense compounds. Modified nucleobases include synthetic and natural nucleobases such as, for example, 5-methylcytosine (5-me-C). Certain nucleobase substitutions, including 5-methylcytosine substitutions, are particularly useful for increasing the binding affinity of an antisense compound for a target nucleic acid. For example, 5-methylcytosine substitutions have been shown to increase nucleic acid duplex stability by 0.6-
20 1.2°C (Sanghvi, Y.S., Crooke, S.T. and Lebleu, B., eds., *Antisense Research and Applications*, CRC Press, Boca Raton, 1993, pp. 276-278).

Additional unmodified nucleobases include 5-hydroxymethyl cytosine, xanthine, hypoxanthine, 2-aminoadenine, 6-methyl and other alkyl derivatives of adenine and guanine, 2-propyl and other alkyl derivatives of adenine and guanine, 2-thiouracil, 2-thiothymine and 2-
25 thiocytosine, 5-halouracil and cytosine, 5-propynyl (-C≡C-CH₃) uracil and cytosine and other alkynyl derivatives of pyrimidine bases, 6-azo uracil, cytosine and thymine, 5-uracil (pseudouracil), 4-thiouracil, 8-halo, 8-amino, 8-thiol, 8-thioalkyl, 8-hydroxyl and other 8-substituted adenines and guanines, 5-halo particularly 5-bromo, 5-trifluoromethyl and other 5-substituted uracils and cytosines, 7-methylguanine and 7-methyladenine, 2-F-adenine, 2-amino-
30 adenine, 8-azaguanine and 8-azaadenine, 7-deazaguanine and 7-deazaadenine and 3-deazaguanine and 3-deazaadenine.

Heterocyclic base moieties may also include those in which the purine or pyrimidine base is replaced with other heterocycles, for example 7-deaza-adenine, 7-deazaguanosine, 2-

aminopyridine and 2-pyridone. Nucleobases that are particularly useful for increasing the binding affinity of antisense compounds include 5-substituted pyrimidines, 6-azapyrimidines and N-2, N-6 and O-6 substituted purines, including 2 aminopropyladenine, 5-propynyluracil and 5-propynylcytosine.

5 In one embodiment, antisense compounds targeted to a PCSK9 nucleic acid comprise one or more modified nucleobases. In an additional embodiment, gap-widened antisense oligonucleotides targeted to a PCSK9 nucleic acid comprise one or more modified nucleobases. In some embodiments, the modified nucleobase is 5-methylcytosine. In further embodiments, each cytosine is a 5-methylcytosine.

10

Compositions and Methods for Formulating Pharmaceutical Compositions

Antisense oligonucleotides may be admixed with pharmaceutically acceptable active and/or inert substances for the preparation of pharmaceutical compositions or formulations. Compositions and methods for the formulation of pharmaceutical compositions are dependent upon a number of criteria, including, but not limited to, route of administration, extent of disease, or dose to be administered.

Antisense compound targeted to a PCSK9 nucleic acid can be utilized in pharmaceutical compositions by combining the antisense compound with a suitable pharmaceutically acceptable diluent or carrier. A pharmaceutically acceptable diluent includes phosphate-buffered saline (PBS). PBS is a diluent suitable for use in compositions to be delivered parenterally. Accordingly, in one embodiment, employed in the methods described herein is a pharmaceutical composition comprising an antisense compound targeted to a PCSK9 nucleic acid and a pharmaceutically acceptable diluent. In one embodiment, the pharmaceutically acceptable diluent is PBS. In other embodiments, the antisense compound is an antisense oligonucleotide.

25 Pharmaceutical compositions comprising antisense compounds encompass any pharmaceutically acceptable salts, esters, or salts of such esters, or any other oligonucleotide which, upon administration to an animal, including a human, is capable of providing (directly or indirectly) the biologically active metabolite or residue thereof. Accordingly, for example, the disclosure is also drawn to pharmaceutically acceptable salts of antisense compounds, prodrugs, pharmaceutically acceptable salts of such prodrugs, and other bioequivalents. Suitable pharmaceutically acceptable salts include, but are not limited to, sodium and potassium salts.

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A prodrug can include the incorporation of additional nucleosides at one or both ends of an antisense compound which are cleaved by endogenous nucleases within the body, to form the active antisense compound.

In certain embodiments, pharmaceutical compositions of the present invention comprise one or more oligonucleotides and one or more excipients. In certain such embodiments, excipients are selected from water, salt solutions, alcohol, polyethylene glycols, gelatin, lactose, amylase, magnesium stearate, talc, silicic acid, viscous paraffin, hydroxymethylcellulose and polyvinylpyrrolidone.

In certain embodiments, a pharmaceutical composition of the present invention is prepared using known techniques, including, but not limited to mixing, dissolving, granulating, dragee-making, levigating, emulsifying, encapsulating, entrapping or tableting processes.

In certain embodiments, a pharmaceutical composition of the present invention is a liquid (e.g., a suspension, elixir and/or solution). In certain of such embodiments, a liquid pharmaceutical composition is prepared using ingredients known in the art, including, but not limited to, water, glycols, oils, alcohols, flavoring agents, preservatives, and coloring agents.

In certain embodiments, a pharmaceutical composition of the present invention is a solid (e.g., a powder, tablet, and/or capsule). In certain of such embodiments, a solid pharmaceutical composition comprising one or more oligonucleotides is prepared using ingredients known in the art, including, but not limited to, starches, sugars, diluents, granulating agents, lubricants, binders, and disintegrating agents.

In certain embodiments, a pharmaceutical composition of the present invention is formulated as a depot preparation. Certain such depot preparations are typically longer acting than non-depot preparations. In certain embodiments, such preparations are administered by implantation (for example subcutaneously or intramuscularly) or by intramuscular injection. In certain embodiments, depot preparations are prepared using suitable polymeric or hydrophobic materials (for example an emulsion in an acceptable oil) or ion exchange resins, or as sparingly soluble derivatives, for example, as a sparingly soluble salt.

In certain embodiments, a pharmaceutical composition of the present invention comprises a delivery system. Examples of delivery systems include, but are not limited to, liposomes and emulsions. Certain delivery systems are useful for preparing certain pharmaceutical compositions including those comprising hydrophobic compounds. In certain embodiments, certain organic solvents such as dimethylsulfoxide are used.

In certain embodiments, a pharmaceutical composition of the present invention comprises

one or more tissue-specific delivery molecules designed to deliver the one or more pharmaceutical agents of the present invention to specific tissues or cell types. For example, in certain embodiments, pharmaceutical compositions include liposomes coated with a tissue-specific antibody.

5 In certain embodiments, a pharmaceutical composition of the present invention comprises a co-solvent system. Certain of such co-solvent systems comprise, for example, benzyl alcohol, a nonpolar surfactant, a water-miscible organic polymer, and an aqueous phase. In certain
10 embodiments, such co-solvent systems are used for hydrophobic compounds. A non-limiting example of such a co-solvent system is the VPD co-solvent system, which is a solution of absolute ethanol comprising 3% w/v benzyl alcohol, 8% w/v of the nonpolar surfactant Polysorbate 80.TM., and 65% w/v polyethylene glycol 300. The proportions of such co-solvent systems may be varied considerably without significantly altering their solubility and toxicity characteristics. Furthermore, the identity of co-solvent components may be varied: for example, other surfactants may be used instead of Polysorbate 80.TM.; the fraction size of polyethylene
15 glycol may be varied; other biocompatible polymers may replace polyethylene glycol, e.g., polyvinyl pyrrolidone; and other sugars or polysaccharides may substitute for dextrose.

In certain embodiments, a pharmaceutical composition of the present invention comprises a sustained-release system. A non-limiting example of such a sustained-release system is a semi-permeable matrix of solid hydrophobic polymers. In certain embodiments, sustained-release
20 systems may, depending on their chemical nature, release pharmaceutical agents over a period of hours, days, weeks or months.

In certain embodiments, a pharmaceutical composition of the present invention is prepared for oral administration. In certain of such embodiments, a pharmaceutical composition is formulated by combining one or more oligonucleotides with one or more pharmaceutically
25 acceptable carriers. Certain of such carriers enable pharmaceutical compositions to be formulated as tablets, pills, dragees, capsules, liquids, gels, syrups, slurries, suspensions and the like, for oral ingestion by a subject. In certain embodiments, pharmaceutical compositions for oral use are obtained by mixing oligonucleotide and one or more solid excipient. Suitable excipients include, but are not limited to, fillers, such as sugars, including lactose, sucrose, mannitol, or sorbitol;
30 cellulose preparations such as, for example, maize starch, wheat starch, rice starch, potato starch, gelatin, gum tragacanth, methyl cellulose, hydroxypropylmethyl-cellulose, sodium carboxymethylcellulose, and/or polyvinylpyrrolidone (PVP). In certain embodiments, such a mixture is optionally ground and auxiliaries are optionally added. In certain embodiments,

pharmaceutical compositions are formed to obtain tablets or dragee cores. In certain embodiments, disintegrating agents (e.g., cross-linked polyvinyl pyrrolidone, agar, or alginic acid or a salt thereof, such as sodium alginate) are added.

In certain embodiments, dragee cores are provided with coatings. In certain such
5 embodiments, concentrated sugar solutions may be used, which may optionally contain gum arabic, talc, polyvinyl pyrrolidone, carbopol gel, polyethylene glycol, and/or titanium dioxide, lacquer solutions, and suitable organic solvents or solvent mixtures. Dyestuffs or pigments may be added to tablets or dragee coatings.

In certain embodiments, pharmaceutical compositions for oral administration are push-fit
10 capsules made of gelatin. Certain of such push-fit capsules comprise one or more pharmaceutical agents of the present invention in admixture with one or more filler such as lactose, binders such as starches, and/or lubricants such as talc or magnesium stearate and, optionally, stabilizers. In certain embodiments, pharmaceutical compositions for oral administration are soft, sealed capsules made of gelatin and a plasticizer, such as glycerol or sorbitol. In certain soft capsules,
15 one or more pharmaceutical agents of the present invention are dissolved or suspended in suitable liquids, such as fatty oils, liquid paraffin, or liquid polyethylene glycols. In addition, stabilizers may be added.

In certain embodiments, pharmaceutical compositions are prepared for buccal
administration. Certain of such pharmaceutical compositions are tablets or lozenges formulated
20 in conventional manner.

In certain embodiments, a pharmaceutical composition is prepared for administration by injection (e.g., intravenous, subcutaneous, intramuscular, etc.). In certain of such embodiments, a pharmaceutical composition comprises a carrier and is formulated in aqueous solution, such as water or physiologically compatible buffers such as Hanks's solution, Ringer's solution, or
25 physiological saline buffer. In certain embodiments, other ingredients are included (e.g., ingredients that aid in solubility or serve as preservatives). In certain embodiments, injectable suspensions are prepared using appropriate liquid carriers, suspending agents and the like. Certain pharmaceutical compositions for injection are presented in unit dosage form, e.g., in ampoules or in multi-dose containers. Certain pharmaceutical compositions for injection are
30 suspensions, solutions or emulsions in oily or aqueous vehicles, and may contain formulatory agents such as suspending, stabilizing and/or dispersing agents. Certain solvents suitable for use in pharmaceutical compositions for injection include, but are not limited to, lipophilic solvents and fatty oils, such as sesame oil, synthetic fatty acid esters, such as ethyl oleate or triglycerides,

and liposomes. Aqueous injection suspensions may contain substances that increase the viscosity of the suspension, such as sodium carboxymethyl cellulose, sorbitol, or dextran. Optionally, such suspensions may also contain suitable stabilizers or agents that increase the solubility of the pharmaceutical agents to allow for the preparation of highly concentrated solutions.

5 In certain embodiments, a pharmaceutical composition is prepared for transmucosal administration. In certain of such embodiments penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art.

In certain embodiments, a pharmaceutical composition is prepared for administration by inhalation. Certain of such pharmaceutical compositions for inhalation are prepared in the form
10 of an aerosol spray in a pressurized pack or a nebulizer. Certain of such pharmaceutical compositions comprise a propellant, e.g., dichlorodifluoromethane, trichlorofluoromethane, dichlorotetrafluoroethane, carbon dioxide or other suitable gas. In certain embodiments using a pressurized aerosol, the dosage unit may be determined with a valve that delivers a metered amount. In certain embodiments, capsules and cartridges for use in an inhaler or insufflator may
15 be formulated. Certain of such formulations comprise a powder mixture of a pharmaceutical agent of the invention and a suitable powder base such as lactose or starch.

In certain embodiments, a pharmaceutical composition is prepared for rectal administration, such as a suppositories or retention enema. Certain of such pharmaceutical compositions comprise known ingredients, such as cocoa butter and/or other glycerides.

20 In certain embodiments, a pharmaceutical composition is prepared for topical administration. Certain of such pharmaceutical compositions comprise bland moisturizing bases, such as ointments or creams. Exemplary suitable ointment bases include, but are not limited to, petrolatum, petrolatum plus volatile silicones, lanolin and water in oil emulsions such as Eucerin™, available from Beiersdorf (Cincinnati, Ohio). Exemplary suitable cream bases
25 include, but are not limited to, Nivea™ Cream, available from Beiersdorf (Cincinnati, Ohio), cold cream (USP), Purpose Cream™, available from Johnson & Johnson (New Brunswick, N.J.), hydrophilic ointment (USP) and Lubriderm™, available from Pfizer (Morris Plains, N.J.).

In certain embodiments, a pharmaceutical composition of the present invention comprises an oligonucleotide in a therapeutically effective amount. In certain embodiments, the
30 therapeutically effective amount is sufficient to prevent, alleviate or ameliorate symptoms of a disease or to prolong the survival of the subject being treated. Determination of a therapeutically effective amount is well within the capability of those skilled in the art.

In certain embodiments, one or more oligonucleotides of the present invention is

formulated as a prodrug. In certain embodiments, upon in vivo administration, a prodrug is chemically converted to the biologically, pharmaceutically or therapeutically more active form of the oligonucleotide. In certain embodiments, prodrugs are useful because they are easier to administer than the corresponding active form. For example, in certain instances, a prodrug may be more bioavailable (e.g., through oral administration) than is the corresponding active form. In certain instances, a prodrug may have improved solubility compared to the corresponding active form. In certain embodiments, prodrugs are less water soluble than the corresponding active form. In certain instances, such prodrugs possess superior transmittal across cell membranes, where water solubility is detrimental to mobility. In certain embodiments, a prodrug is an ester. In certain such embodiments, the ester is metabolically hydrolyzed to carboxylic acid upon administration. In certain instances the carboxylic acid containing compound is the corresponding active form. In certain embodiments, a prodrug comprises a short peptide (polyaminoacid) bound to an acid group. In certain of such embodiments, the peptide is cleaved upon administration to form the corresponding active form.

In certain embodiments, a prodrug is produced by modifying a pharmaceutically active compound such that the active compound will be regenerated upon in vivo administration. The prodrug can be designed to alter the metabolic stability or the transport characteristics of a drug, to mask side effects or toxicity, to improve the flavor of a drug or to alter other characteristics or properties of a drug. By virtue of knowledge of pharmacodynamic processes and drug metabolism *in vivo*, those of skill in this art, once a pharmaceutically active compound is known, can design prodrugs of the compound (see, e.g., Nogrady (1985) Medicinal Chemistry A Biochemical Approach, Oxford University Press, New York, pages 388-392).

In certain embodiments, a pharmaceutical composition comprising one or more pharmaceutical agents of the present invention is useful for treating a conditions or disorders in a mammalian, and particularly in a human, subject. Suitable administration routes include, but are not limited to, oral, rectal, transmucosal, intestinal, enteral, topical, suppository, through inhalation, intrathecal, intraventricular, intraperitoneal, intranasal, intraocular and parenteral (e.g., intravenous, intramuscular, intramedullary, and subcutaneous). In certain embodiments, pharmaceutical intrathecal are administered to achieve local rather than systemic exposures. For example, pharmaceutical compositions may be injected directly in the area of desired effect (e.g., in the renal or cardiac area).

In certain embodiments, a pharmaceutical composition of the present invention is administered in the form of a dosage unit (e.g., tablet, capsule, bolus, etc.). In certain

embodiments, such pharmaceutical compositions comprise an oligonucleotide in a dose selected from 25 mg, 30 mg, 35 mg, 40 mg, 45 mg, 50 mg, 55 mg, 60 mg, 65 mg, 70 mg, 75 mg, 80 mg, 85 mg, 90 mg, 95 mg, 100 mg, 105 mg, 110 mg, 115 mg, 120 mg, 125 mg, 130 mg, 135 mg, 140 mg, 145 mg, 150 mg, 155 mg, 160 mg, 165 mg, 170 mg, 175 mg, 180 mg, 185 mg, 190 mg, 195 mg, 200 mg, 205 mg, 210 mg, 215 mg, 220 mg, 225 mg, 230 mg, 235 mg, 240 mg, 245 mg, 250 mg, 255 mg, 260 mg, 265 mg, 270 mg, 270 mg, 280 mg, 285 mg, 290 mg, 295 mg, 300 mg, 305 mg, 310 mg, 315 mg, 320 mg, 325 mg, 330 mg, 335 mg, 340 mg, 345 mg, 350 mg, 355 mg, 360 mg, 365 mg, 370 mg, 375 mg, 380 mg, 385 mg, 390 mg, 395 mg, 400 mg, 405 mg, 410 mg, 415 mg, 420 mg, 425 mg, 430 mg, 435 mg, 440 mg, 445 mg, 450 mg, 455 mg, 460 mg, 465 mg, 470 mg, 475 mg, 480 mg, 485 mg, 490 mg, 495 mg, 500 mg, 505 mg, 510 mg, 515 mg, 520 mg, 525 mg, 530 mg, 535 mg, 540 mg, 545 mg, 550 mg, 555 mg, 560 mg, 565 mg, 570 mg, 575 mg, 580 mg, 585 mg, 590 mg, 595 mg, 600 mg, 605 mg, 610 mg, 615 mg, 620 mg, 625 mg, 630 mg, 635 mg, 640 mg, 645 mg, 650 mg, 655 mg, 660 mg, 665 mg, 670 mg, 675 mg, 680 mg, 685 mg, 690 mg, 695 mg, 700 mg, 705 mg, 710 mg, 715 mg, 720 mg, 725 mg, 730 mg, 735 mg, 740 mg, 745 mg, 750 mg, 755 mg, 760 mg, 765 mg, 770 mg, 775 mg, 780 mg, 785 mg, 790 mg, 795 mg, and 800 mg. In certain such embodiments, a pharmaceutical composition of the present invention comprises a dose of oligonucleotide selected from 25 mg, 50 mg, 75 mg, 100 mg, 150 mg, 200 mg, 250 mg, 300 mg, 350 mg, 400 mg, 500 mg, 600 mg, 700 mg, and 800mg. In certain embodiments, a pharmaceutical composition is comprises a dose of oligonucleotide selected from 50 mg, 100 mg, 150 mg, 200 mg, 250 mg, 300 mg, and 400 mg. In certain embodiments the dose is administered at intervals ranging from more than once per day, once per day, once per week, twice per week, three times per week, four times per week, five times per week, 6 times per week, once per month to once per three months, for as long as needed to sustain the desired effect.

In a further aspect, a pharmaceutical agent is sterile lyophilized oligonucleotide that is reconstituted with a suitable diluent, e.g., sterile water for injection. The reconstituted product is administered as a subcutaneous injection or as an intravenous infusion after dilution into saline. The lyophilized drug product consists of the oligonucleotide which has been prepared in water for injection, adjusted to pH 7.0-9.0 with acid or base during preparation, and then lyophilized. The lyophilized oligonucleotide may be 25-800 mg of the oligonucleotide. It is understood that this encompasses 25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 375, 425, 450, 475, 500, 525, 550, 575, 600, 625, 650, 675, 700, 725, 750, 775, and 800 mg of lyophilized oligonucleotide. The lyophilized drug product may be packaged in a 2 mL Type I, clear glass

vial (ammonium sulfate-treated), stoppered with a bromobutyl rubber closure and sealed with an aluminum FLIP-OFF® overseal. In one embodiment, the lyophilized pharmaceutical agent comprises ISIS 301012.

The compositions of the present invention may additionally contain other adjunct
5 components conventionally found in pharmaceutical compositions, at their art-established usage levels. Thus, for example, the compositions may contain additional, compatible, pharmaceutically-active materials such as, for example, antipruritics, astringents, local anesthetics or anti-inflammatory agents, or may contain additional materials useful in physically
10 formulating various dosage forms of the compositions of the present invention, such as dyes, flavoring agents, preservatives, antioxidants, opacifiers, thickening agents and stabilizers. However, such materials, when added, should not unduly interfere with the biological activities of the components of the compositions of the present invention. The formulations can be sterilized and, if desired, mixed with auxiliary agents, e.g., lubricants, preservatives, stabilizers, wetting agents, emulsifiers, salts for influencing osmotic pressure, buffers, colorings, flavorings
15 and/or aromatic substances and the like which do not deleteriously interact with the oligonucleotide(s) of the formulation.

Conjugated Antisense Compounds

Antisense compounds may be covalently linked to one or more moieties or conjugates
20 which enhance the activity, cellular distribution or cellular uptake of the resulting antisense oligonucleotides. Typical conjugate groups include cholesterol moieties and lipid moieties. Additional conjugate groups include carbohydrates, phospholipids, biotin, phenazine, folate, phenanthridine, anthraquinone, acridine, fluoresceins, rhodamines, coumarins, and dyes.

Antisense compounds can also be modified to have one or more stabilizing groups that
25 are generally attached to one or both termini of antisense compounds to enhance properties such as, for example, nuclease stability. Included in stabilizing groups are cap structures. These terminal modifications protect the antisense compound having terminal nucleic acid from exonuclease degradation, and can help in delivery and/or localization within a cell. The cap can be present at the 5'-terminus (5'-cap), or at the 3'-terminus (3'-cap), or can be present on both
30 termini. Cap structures are well known in the art and include, for example, inverted deoxy abasic caps. Further 3' and 5'-stabilizing groups that can be used to cap one or both ends of an antisense compound to impart nuclease stability include those disclosed in WO 03/004602 published on January 16, 2003.

Cell Culture and Antisense Compounds Treatment

The effects of antisense compounds on the level, activity or expression of PCSK9 nucleic acids can be tested *in vitro* in a variety of cell types. Cell types used for such analyses are available from commercial vendors (e.g. American Type Culture Collection, Manassus, VA; Zen-Bio, Inc., Research Triangle Park, NC; Clonetics Corporation, Walkersville, MD) and cells are cultured according to the vendor's instructions using commercially available reagents (e.g. Invitrogen Life Technologies, Carlsbad, CA). Illustrative cell types include, but are not limited to, HepG2 cells, HepB3 cells, and primary hepatocytes.

10

In vitro Testing of Antisense Oligonucleotides

Described herein are methods for treatment of cells with antisense oligonucleotides, which can be modified appropriately for treatment with other antisense compounds.

In general, cells are treated with antisense oligonucleotides when they reach approximately 60-80% confluency in culture.

15

One reagent commonly used to introduce antisense oligonucleotides into cultured cells includes the cationic lipid transfection reagent LIPOFECTIN® (Invitrogen, Carlsbad, CA). Antisense oligonucleotides are mixed with LIPOFECTIN® in OPTI-MEM® 1 (Invitrogen, Carlsbad, CA) to achieve the desired final concentration of antisense oligonucleotide and a LIPOFECTIN® concentration that typically ranges 2 to 12 ug/mL per 100 nM antisense oligonucleotide.

20

Another reagent used to introduce antisense oligonucleotides into cultured cells includes LIPOFECTAMINE® (Invitrogen, Carlsbad, CA). Antisense oligonucleotide is mixed with LIPOFECTAMINE® in OPTI-MEM® 1 reduced serum medium (Invitrogen, Carlsbad, CA) to achieve the desired concentration of antisense oligonucleotide and a LIPOFECTAMINE® concentration that typically ranges 2 to 12 ug/mL per 100 nM antisense oligonucleotide.

25

Cells are treated with antisense oligonucleotides by routine methods. Cells are typically harvested 16-24 hours after antisense oligonucleotide treatment, at which time RNA or protein levels of target nucleic acids are measured by methods known in the art and described herein. In general, when treatments are performed in multiple replicates, the data are presented as the average of the replicate treatments.

30

The concentration of antisense oligonucleotide used varies from cell line to cell line. Methods to determine the optimal antisense oligonucleotide concentration for a particular cell

line are well known in the art. Antisense oligonucleotides are typically used at concentrations ranging from 1 nM to 300 nM.

RNA Isolation

5 RNA analysis can be performed on total cellular RNA or poly(A)+ mRNA. Methods of RNA isolation are well known in the art. RNA is prepared using methods well known in the art, for example, using the TRIZOL® Reagent (Invitrogen, Carlsbad, CA) according to the manufacturer's recommended protocols.

10 *Analysis of Inhibition of Target Levels or Expression*

Inhibition of levels or expression of a PCSK9 nucleic acid can be assayed in a variety of ways known in the art. For example, target nucleic acid levels can be quantitated by, e.g., Northern blot analysis, competitive polymerase chain reaction (PCR), or quantitative real-time PCR. RNA analysis can be performed on total cellular RNA or poly(A)+ mRNA. Methods of
15 RNA isolation are well known in the art. Northern blot analysis is also routine in the art. Quantitative real-time PCR can be conveniently accomplished using the commercially available ABI PRISM® 7600, 7700, or 7900 Sequence Detection System, available from PE-Applied Biosystems, Foster City, CA and used according to manufacturer's instructions.

20 *Quantitative Real-Time PCR Analysis of Target RNA Levels*

Quantitation of target RNA levels may be accomplished by quantitative real-time PCR using the ABI PRISM® 7600, 7700, or 7900 Sequence Detection System (PE-Applied Biosystems, Foster City, CA) according to manufacturer's instructions. Methods of quantitative real-time PCR are well known in the art.

25 Prior to real-time PCR, the isolated RNA is subjected to a reverse transcriptase (RT) reaction, which produces complementary DNA (cDNA) that is then used as the substrate for the real-time PCR amplification. The RT and real-time PCR reactions are performed sequentially in the same sample well. RT and real-time PCR reagents are obtained from Invitrogen (Carlsbad, CA). RT, real-time-PCR reactions are carried out by methods well known to those skilled in the
30 art.

Gene (or RNA) target quantities obtained by real time PCR are normalized using either the expression level of a gene whose expression is constant, such as GAPDH, or by quantifying total RNA using RIBOGREEN® (Invetrogen, Inc. Carlsbad, CA). GAPDH expression is

quantified by real time PCR, by being run simultaneously with the target, multiplexing, or separately. Total RNA is quantified using RIBOGREEN® RNA quantification reagent (Invetrogen, Inc. Eugene, OR). Methods of RNA quantification by RIBOGREEN® are taught in Jones, L.J., et al, (Analytical Biochemistry, 1998, 265, 368-374). A CYTOFLUOR® 4000
5 instrument (PE Applied Biosystems) is used to measure RIBOGREEN® fluorescence.

Probes and primers are designed to hybridize to a PCSK9 nucleic acid. Methods for designing real-time PCR probes and primers are well known in the art, and may include the use of software such as PRIMER EXPRESS® Software (Applied Biosystems, Foster City, CA).

10 *Analysis of Protein Levels*

Antisense inhibition of PCSK9 nucleic acids can be assessed by measuring PCSK9 protein levels. Protein levels of PCSK9 can be evaluated or quantitated in a variety of ways well known in the art, such as immunoprecipitation, Western blot analysis (immunoblotting), enzyme-linked immunosorbent assay (ELISA), quantitative protein assays, protein activity assays (for
15 example, caspase activity assays), immunohistochemistry, immunocytochemistry or fluorescence-activated cell sorting (FACS). Antibodies directed to a target can be identified and obtained from a variety of sources, such as the MSRS catalog of antibodies (Aerie Corporation, Birmingham, MI), or can be prepared via conventional monoclonal or polyclonal antibody generation methods well known in the art. Antibodies useful for the detection of human and rat
20 PCSK9 are commercially available.

In vivo Testing of Antisense Compounds

Antisense compounds, for example, antisense oligonucleotides, are tested in animals to assess their ability to inhibit expression of PCSK9 and produce phenotypic changes, such as
25 decreases in LDL-C. Testing may be performed in normal animals, or in experimental disease models. For administration to animals, antisense oligonucleotides are formulated in a pharmaceutically acceptable diluent, such as phosphate-buffered saline. Administration includes parenteral routes of administration, such as intraperitoneal, intravenous, and subcutaneous. Calculation of antisense oligonucleotide dosage and dosing frequency is within the abilities of
30 those skilled in the art, and depends upon factors such as route of administration and animal body weight. Following a period of treatment with antisense oligonucleotides, RNA is isolated from various tissues and changes in PCSK9 nucleic acid expression are measured. Changes in PCSK9 protein levels may also be measured.

*Animal Models of Atherosclerosis***Nonlimiting disclosure and incorporation by reference**

5 The following examples serve only to illustrate the methods, antisense oligonucleotides, and compositions provided and are not intended to limit the same. Each of the references, GENBANK® accession numbers, and the like recited in the present application is incorporated herein by reference in its entirety.

10 **EXAMPLES****Example 1: Antisense inhibition of human PCSK9: A549 cells**

Antisense oligonucleotides targeted to a PCSK9 nucleic acid were tested for their effects on PCSK9 mRNA *in vitro*. Cultured A549 cells at a density of 4000 cells per well in a 96-well
15 plate were treated with 60 nM of antisense oligonucleotide. After a treatment period of approximately 24 hours, RNA was isolated from the cells and PCSK9 mRNA levels were measured by quantitative real-time PCR, as described herein. PCSK9 mRNA levels were adjusted according to total RNA content as measured by RIBOGREEN®. Results are presented as percent inhibition of PCSK9, relative to untreated control cells. Antisense oligonucleotides
20 that exhibited at least 30% inhibition of PCSK9 expression are shown in Table 15.

The motif column indicates the wing-gap-wing motif of each antisense oligonucleotide. Antisense oligonucleotides were designed as 5-10-5 gapmers, or alternatively as 3-14-3 gapmers, where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises 2'-
MOE nucleotides. As illustrated in Table 15, a single nucleobase sequence may be represented
25 by a 5-10-5 motif as well as a 3-14-3 motif. "5' target site" indicates the 5'-most nucleotide which the antisense oligonucleotide is targeted on the indicated GENBANK Accession No.

Table 15: Antisense inhibition of PCSK9 in human cells (Cell type A549)

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
395150	5	242	NM_174936.2	GAGGAGACCTAGAGGCCGTG	5-10-5	57
395151	6	300	NM_174936.2	AGGACCGCCTGGAGCTGACG	5-10-5	77
395152	7	410	NM_174936.2	ACGCAAGGCTAGCACCAGCT	5-10-5	81

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
395153	9	480	NM_174936.2	CCTTGGCGCAGCGGTGGAAG	5-10-5	51
395154	10	561	NM_174936.2	GGCGGGCAGTGCGCTCTGAC	5-10-5	40
395155	11	600	NM_174936.2	TGGTGAGGTATCCCCGGCGG	5-10-5	79
395156	14	620	NM_174936.2	ATGGAAGACATGCAGGATCT	5-10-5	75
395157	15	646	NM_174936.2	TTCACCAGGAAGCCAGGAAG	5-10-5	72
395158	17	705	NM_174936.2	CCTCGATGTAGTCGACATGG	5-10-5	61
395159	18	785	NM_174936.2	GTATTCATCCGCCCGGTACC	5-10-5	35
395160	19	835	NM_174936.2	CTGGTGTCTAGGAGATACAC	5-10-5	47
395161	21	860	NM_174936.2	GATTTCCCGGTGGTCACTCT	5-10-5	70
395162	24	890	NM_174936.2	CTCGAAGTCGGTGACCATGA	5-10-5	52
395163	25	923	NM_174936.2	GTGGAAGCGGGTCCCGTCCT	5-10-5	73
395164	26	970	NM_174936.2	ACCCCTGCCAGGTGGGTGCC	5-10-5	69
395165	28	1004	NM_174936.2	ACCCTTGGCCACGCCGGCAT	5-10-5	81
395166	29	1040	NM_174936.2	TTGGCAGTTGAGCACGCGCA	5-10-5	65
395167	31	1077	NM_174936.2	CCAGGCCTATGAGGGTGCCG	5-10-5	34
395168	32	1098	NM_174936.2	GCTGGCTTTTCCGAATAAAC	5-10-5	69
395169	33	1210	NM_174936.2	GTGACCAGCACGACCCAGC	5-10-5	61
395171	34	1326	NM_174936.2	CCAAAGTCCCCAGGGTCACC	5-10-5	38
395173	36	1340	NM_174936.2	GCCAAAGTTGGTCCCCAAAG	5-10-5	64
395174	38	1361	NM_174936.2	GGCAAAGAGGTCCACACAGC	5-10-5	72
395175	39	1389	NM_174936.2	TGGAGGCACCAATGATGTCC	5-10-5	41
395177	45	1534	NM_174936.2	TTGGCAGAGAAGTGGATCAG	5-10-5	41
395178	50	1569	NM_174936.2	GGTCTCAGGGAACCAGGCC	5-10-5	67
395181	52	1640	NM_174936.2	AAACAGTGCCAACCTGCCC	5-10-5	37
395182	54	1675	NM_174936.2	GTAGGCCCCGAGTGTGCTGA	5-10-5	51
395183	57	1812	NM_174936.2	CGTTGTGGGCCCGGCAGACC	5-10-5	74
395184	58	1858	NM_174936.2	AGCAGGCAGCACCTGGCAAT	5-10-5	61
395185	59	1920	NM_174936.2	CACGGGTCCCCATGCTGGCC	5-10-5	73
395186	60	2100	NM_174936.2	CTTTGCATTCCAGACCTGGG	5-10-5	83
395187	62	2310	NM_174936.2	GGCAGCAGATGGCAACGGCT	5-10-5	80
395189	64	2504	NM_174936.2	TCAAGGGCCAGGCCAGCAGC	5-10-5	65
395190	66	2597	NM_174936.2	ATGCCCCACAGTGAGGGAGG	5-10-5	60
395191	67	2606	NM_174936.2	AATGGTGAAATGCCCCACAG	5-10-5	76
395193	68	2750	NM_174936.2	CATGGGAAGAATCCTGCCTC	5-10-5	48
395194	69	2832	NM_174936.2	GGAGATGAGGGCCATCAGCA	5-10-5	64
395195	70	2900	NM_174936.2	TAGATGCCATCCAGAAAGCT	5-10-5	44
395196	72	2983	NM_174936.2	GGCATAGAGCAGAGTAAAGG	5-10-5	39
395198	75	3437	NM_174936.2	GCTCAAGGAGGGACAGTTGT	5-10-5	73
395199	76	3472	NM_174936.2	AAAGATAAATGTCTGCTTGC	5-10-5	83
395200	78	3543	NM_174936.2	TCTTCAAGTTACAAAAGCAA	5-10-5	40
395202	129	13816	NT_032977.8	GTGCCATCTGAACAGCACCT	5-10-5	36
395203	110	13926	NT_032977.8	CCTGGAACCCCTGCAGCCAG	5-10-5	64
395204	152	13977	NT_032977.8	TTCAGGCAGGTTGCTGCTAG	5-10-5	55
395206	136	14122	NT_032977.8	TAGGAGAAAGTAGGGAGAGC	5-10-5	45
395207	132	14179	NT_032977.8	TAAAAGCTGCAAGAGACTCA	5-10-5	49
395208	139	14267	NT_032977.8	TCAGAGAAAACAGTCACCGA	5-10-5	56
395209	142	14404	NT_032977.8	TCATTTTAGAGACAGGAAGC	5-10-5	73
395210	113	14441	NT_032977.8	GAATAACAGTGATGTCTGGC	5-10-5	82

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
395211	138	14494	NT_032977.8	TCACAGCTCACCGAGTCTGC	5-10-5	60
395212	98	14524	NT_032977.8	AGTGTAATAAAGCCCCTA	5-10-5	50
395213	96	14601	NT_032977.8	AGGACCCAAGTCATCCTGCT	5-10-5	57
395214	124	14631	NT_032977.8	GGCCATCAGCTGGCAATGCT	5-10-5	50
395215	133	14675	NT_032977.8	TAGACAAGGAAAGGGAGGCC	5-10-5	60
395216	103	14681	NT_032977.8	ATTCATAGACAAGGAAAGG	5-10-5	51
395218	146	1315	AK124635.1	TGACATTTGTGGGAGAGGAG	5-10-5	35
395220	104	2085	AK124635.1	CACAGTCCTGCAAACAGCT	5-10-5	54
395221	102	5590	NT_032977.8	ATGTGCAGAGATCAATCACA	5-10-5	69
395222	127	10633	NT_032977.8	GGTGGTAATTTGTCACAGCA	5-10-5	64
395223	84	11308	NT_032977.8	AAGGTCACACAGTTAAGAGT	5-10-5	55
395226	147	24858	NT_032977.8	TGAGTTCATTTAAGAGTGGA	5-10-5	42
399793	8	417	NM_174936.2	CCTCGGAACGCAAGGCTAGC	5-10-5	71
399794	12	606	NM_174936.2	GGATCTTGGTGAGGTATCCC	5-10-5	42
399795	13	615	NM_174936.2	AGACATGCAGGATCTTGGTG	5-10-5	54
399796	16	651	NM_174936.2	TCATCTTACCAGGAAGCCA	5-10-5	50
399797	20	840	NM_174936.2	GTATGCTGGTGTCTAGGAGA	5-10-5	38
399798	22	866	NM_174936.2	GCCCTCGATTTCCCGGTGGT	5-10-5	54
399799	23	880	NM_174936.2	GTGACCATGACCCTGCCCTC	5-10-5	75
399800	27	975	NM_174936.2	TGACCACCCCTGCCAGGTGG	5-10-5	67
399801	30	1045	NM_174936.2	TTCCCTTGGCAGTTGAGCAC	5-10-5	79
399802	35	1335	NM_174936.2	AGTTGGTCCCCAAAGTCCCC	5-10-5	71
399803	37	1352	NM_174936.2	GTCCACACAGCGGCCAAAGT	5-10-5	63
399804	40	1400	NM_174936.2	GCTGCAGTCGCTGGAGGCAC	5-10-5	46
399805	41	1411	NM_174936.2	ACAAAGCAGGTGCTGCAGTC	5-10-5	46
399806	42	1470	NM_174936.2	GCATCATGGCTGCAATGCCA	5-10-5	85
399807	43	1478	NM_174936.2	GGCAGACAGCATCATGGCTG	5-10-5	71
399808	44	1526	NM_174936.2	GAAGTGGATCAGTCTCTGCC	5-10-5	38
399809	46	1539	NM_174936.2	CATCTTTGGCAGAGAAGTGG	5-10-5	53
399810	47	1545	NM_174936.2	TGATGACATCTTTGGCAGAG	5-10-5	63
399811	48	1552	NM_174936.2	GCCTCATTGATGACATCTTT	5-10-5	61
399812	49	1564	NM_174936.2	TCAGGGAACCAGGCCTCATT	5-10-5	46
399813	51	1583	NM_174936.2	GGTCAGTACCCGCTGGTCCT	5-10-5	72
399814	53	1645	NM_174936.2	CTGCAAACAGCTGCCAACC	5-10-5	88
399815	55	1740	NM_174936.2	AGAAACTGGAGCAGCTCAGC	5-10-5	38
399816	56	1746	NM_174936.2	TCCTGGAGAACTGGAGCAG	5-10-5	51
399817	61	2105	NM_174936.2	CTTGACTTTGCATTCCAGAC	5-10-5	84
399818	63	2415	NM_174936.2	AACCATTTTAAAGCTCAGCC	5-10-5	68
399819	65	2509	NM_174936.2	CCCACTCAAGGGCCAGGCCA	5-10-5	87
399821	71	2906	NM_174936.2	TCTGGCTAGATGCCATCCAG	5-10-5	83
399822	73	2988	NM_174936.2	AGCCTGGCATAGAGCAGAGT	5-10-5	70
399824	74	3233	NM_174936.2	AAGTAAGAAGAGGCTTGGCT	5-10-5	43
399825	77	3477	NM_174936.2	ACCCAAAAGATAAATGTCTG	5-10-5	61
399827	100	13746	NT_032977.8	ATCTCAGGACAGGTGAGCAA	5-10-5	81
399828	116	13760	NT_032977.8	GAGTAGAGATTCTCATCTCA	5-10-5	73
399829	117	13828	NT_032977.8	GAGTCTTCTGAAGTGCCATC	5-10-5	65
399831	83	13986	NT_032977.8	AAGGAAGACTTCAGGCAGGT	5-10-5	52
399833	92	14397	NT_032977.8	AGAGACAGGAAGCTGCAGCT	5-10-5	54

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
399834	82	14670	NT_032977.8	AAGGAAAGGGAGGCCTAGAG	5-10-5	44
399836	130	2095	AK124635.1	GTGCTGACCACACAGTCCTG	5-10-5	96
399837	107	3056	NT_032977.8	CCCACTATAATGGCAAGCCC	5-10-5	83
399838	80	4306	NT_032977.8	AACCCAGTTCTAATGCACCT	5-10-5	81
399839	106	5140	NT_032977.8	CCAGTCAGAGTAGAACAGAG	5-10-5	68
399840	121	5599	NT_032977.8	GGAGCCTACATGTGCAGAGA	5-10-5	46
399841	94	5667	NT_032977.8	AGCATGGCACCAGCATCTGC	5-10-5	59
399842	108	6652	NT_032977.8	CCCAGCCCTATCAGGAAGTG	5-10-5	67
399843	144	7099	NT_032977.8	TGACATCCAGGAGGGAGGAG	5-10-5	33
399844	91	7556	NT_032977.8	AGACTGATGGAAGGCATTGA	5-10-5	56
399845	131	7565	NT_032977.8	GTGTTGAGCAGACTGATGGA	5-10-5	48
399846	145	8836	NT_032977.8	TGACATCTTGTCTGGGAGCC	5-10-5	58
399847	90	8948	NT_032977.8	AGACTAGGAGCCTGAGTTTT	5-10-5	38
399849	148	10252	NT_032977.8	TGGCAGCAACTCAGACATAT	5-10-5	74
399851	88	12715	NT_032977.8	ACTGGATACATTGGCAGACA	5-10-5	62
399852	111	12928	NT_032977.8	CTAGAGGAACCACTAGATAT	5-10-5	66
399854	97	16134	NT_032977.8	AGTCAAGCTGCTGCCCAGAG	5-10-5	82
399855	120	16668	NT_032977.8	GCTAGTTATTAAGCACCTGC	5-10-5	71
399856	150	17267	NT_032977.8	TGTGAGCTCTGGCCAGTGG	5-10-5	64
399857	115	18377	NT_032977.8	GAGTAAGGCAGGTTACTCTC	5-10-5	79
399858	134	18408	NT_032977.8	TAGATGTGACTAACATTTAA	5-10-5	57
399859	105	19203	NT_032977.8	CACATTAGCCTTGCTCAAGT	5-10-5	75
399860	151	19913	NT_032977.8	TGTGATGACCTGGAAAGGTG	5-10-5	36
399862	109	20188	NT_032977.8	CCCCTGCACAGAGCCTGGCA	5-10-5	59
399863	141	20624	NT_032977.8	TCATGGCTGCAATGCCTGGT	5-10-5	46
399864	93	20995	NT_032977.8	AGAGAGGAGGGCTTAAAGAA	5-10-5	30
399865	95	21082	NT_032977.8	AGCTGCCAACCTGCAAAAAG	5-10-5	75
399866	143	21481	NT_032977.8	TGAAAATCCATCCAGCACTG	5-10-5	74
399867	89	21589	NT_032977.8	AGAACCATGGAGCACCTGAG	5-10-5	84
399868	123	21696	NT_032977.8	GGCACTGCCCTTCCACCAA	5-10-5	53
399869	118	24907	NT_032977.8	GCACCATCCAGACCAGAATC	5-10-5	49
399870	114	25413	NT_032977.8	GAGAGGTTTCAGATCCAGGCC	5-10-5	66
399871	4	135	NM_174936.2	GCGCGGAATCCTGGCTGGGA	3-14-3	40
399872	5	242	NM_174936.2	GAGGAGACCTAGAGGCCGTG	3-14-3	64
399873	6	300	NM_174936.2	AGGACCGCCTGGAGCTGACG	3-14-3	65
399874	7	410	NM_174936.2	ACGCAAGGCTAGCACCAGCT	3-14-3	80
399875	9	480	NM_174936.2	CCTTGGCGCAGCGGTGGAAG	3-14-3	67
399876	10	561	NM_174936.2	GGCGGGCAGTGCGCTCTGAC	3-14-3	62
399877	11	600	NM_174936.2	TGGTGAGGTATCCCCGGCGG	3-14-3	73
399878	14	620	NM_174936.2	ATGGAAGACATGCAGGATCT	3-14-3	54
399879	15	646	NM_174936.2	TTCACCAGGAAGCCAGGAAG	3-14-3	75
399880	17	705	NM_174936.2	CCTCGATGTAGTCGACATGG	3-14-3	80
399881	18	785	NM_174936.2	GTATTCATCCGCCCGGTACC	3-14-3	63
399882	19	835	NM_174936.2	CTGGTGTCTAGGAGATACAC	3-14-3	66
399883	21	860	NM_174936.2	GATTTCCCGGTGGTCACTCT	3-14-3	59
399884	24	890	NM_174936.2	CTCGAAGTCGGTGACCATGA	3-14-3	71
399885	25	923	NM_174936.2	GTGGAAGCGGGTCCCGTCCT	3-14-3	73
399886	26	970	NM_174936.2	ACCCCTGCCAGGTGGGTGCC	3-14-3	76

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
399887	28	1004	NM_174936.2	ACCCTTGGCCACGCCGGCAT	3-14-3	54
399888	29	1040	NM_174936.2	TTGGCAGTTGAGCACGCGCA	3-14-3	75
399889	31	1077	NM_174936.2	CCAGGCCTATGAGGGTGCCG	3-14-3	84
399890	32	1098	NM_174936.2	GCTGGCTTTTCCGAATAAAC	3-14-3	73
399891	33	1210	NM_174936.2	GTGACCAGCACGACCCCAGC	3-14-3	99
399892	149	1297	NM_174936.2	TGGGCATTGGTGGCCCAAC	3-14-3	61
399893	34	1326	NM_174936.2	CCAAAGTCCCCAGGGTCACC	3-14-3	54
399894	128	1330	NM_174936.2	GTCCCCAAAGTCCCCAGGGT	3-14-3	80
399895	36	1340	NM_174936.2	GCCAAAGTTGGTCCCCAAAG	3-14-3	82
399896	38	1361	NM_174936.2	GGCAAAGAGGTCCACACAGC	3-14-3	83
399897	39	1389	NM_174936.2	TGGAGGCACCAATGATGTCC	3-14-3	70
399898	101	1465	NM_174936.2	ATGGCTGCAATGCCAGCCAC	3-14-3	37
399899	45	1534	NM_174936.2	TTGGCAGAGAAGTGGATCAG	3-14-3	64
399900	50	1569	NM_174936.2	GGTCCTCAGGGAACCAGGCC	3-14-3	82
399901	87	1576	NM_174936.2	ACCCGCTGGTCTCAGGGAA	3-14-3	76
399902	119	1605	NM_174936.2	GCAGGGCGGCCACCAGGTTG	3-14-3	39
399903	52	1640	NM_174936.2	AAACAGCTGCCAACCTGCCC	3-14-3	73
399904	54	1675	NM_174936.2	GTAGGCCCCGAGTGTGCTGA	3-14-3	81
399905	57	1812	NM_174936.2	CGTTGTGGGCCCGGCAGACC	3-14-3	80
399906	58	1858	NM_174936.2	AGCAGGCAGCACCTGGCAAT	3-14-3	92
399907	59	1920	NM_174936.2	CACGGGTCCCCATGCTGGCC	3-14-3	95
399908	60	2100	NM_174936.2	CTTTGCATTCCAGACCTGGG	3-14-3	84
399909	62	2310	NM_174936.2	GGCAGCAGATGGCAACGGCT	3-14-3	73
399910	154	2410	NM_174936.2	TTTTAAAGCTCAGCCCCAGC	3-14-3	57
399911	64	2504	NM_174936.2	TCAAGGGCCAGGCCAGCAGC	3-14-3	82
399912	66	2597	NM_174936.2	ATGCCCCACAGTGAGGGAGG	3-14-3	68
399913	67	2606	NM_174936.2	AATGGTGAAATGCCCCACAG	3-14-3	92
399914	153	2649	NM_174936.2	TTGGGAGCAGCTGGCAGCAC	3-14-3	59
399915	68	2750	NM_174936.2	CATGGGAAGAATCCTGCCTC	3-14-3	78
399916	69	2832	NM_174936.2	GGAGATGAGGGCCATCAGCA	3-14-3	71
399917	70	2900	NM_174936.2	TAGATGCCATCCAGAAAGCT	3-14-3	81
399918	72	2983	NM_174936.2	GGCATAGAGCAGAGTAAAGG	3-14-3	82
399919	112	3227	NM_174936.2	GAAGAGGCTTGGCTTCAGAG	3-14-3	57
399920	75	3437	NM_174936.2	GCTCAAGGAGGGACAGTTGT	3-14-3	84
399921	76	3472	NM_174936.2	AAAGATAAATGTCTGCTTGC	3-14-3	78
399922	78	3543	NM_174936.2	TCTTCAAGTTACAAAAGCAA	3-14-3	61
399923	85	13681	NT_032977.8	ACAAATCCCAGACTCAGCA	3-14-3	82
399924	129	13816	NT_032977.8	GTGCCATCTGAACAGCACCT	3-14-3	84
399925	110	13926	NT_032977.8	CCTGGAACCCCTGCAGCCAG	3-14-3	73
399926	152	13977	NT_032977.8	TTCAGGCAGGTTGCTGCTAG	3-14-3	47
399927	140	13998	NT_032977.8	TCAGCCAGGCCAAAGGAAGA	3-14-3	78
399928	136	14122	NT_032977.8	TAGGAGAAAGTAGGGAGAGC	3-14-3	47
399929	132	14179	NT_032977.8	TAAAAGCTGCAAGAGACTCA	3-14-3	69
399930	139	14267	NT_032977.8	TCAGAGAAAACAGTCACCGA	3-14-3	82
399931	142	14404	NT_032977.8	TCATTTTAGAGACAGGAAGC	3-14-3	79
399932	113	14441	NT_032977.8	GAATAACAGTGATGTCTGGC	3-14-3	83
399933	138	14494	NT_032977.8	TCACAGCTCACCGAGTCTGC	3-14-3	78
399934	98	14524	NT_032977.8	AGTGTAATAAAGCCCCTA	3-14-3	79

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
399935	96	14601	NT_032977.8	AGGACCCAAGTCATCCTGCT	3-14-3	89
399936	124	14631	NT_032977.8	GGCCATCAGCTGGCAATGCT	3-14-3	70
399937	133	14675	NT_032977.8	TAGACAAGGAAAGGGAGGCC	3-14-3	78
399938	103	14681	NT_032977.8	ATTCATAGACAAGGAAAGG	3-14-3	67
399940	146	1315	AK124635.1	TGACATTTGTGGGAGAGGAG	3-14-3	35
399942	104	2085	AK124635.1	CACAGTCCTGCAAAACAGCT	3-14-3	75
399943	102	5590	NT_032977.8	ATGTGCAGAGATCAATCACA	3-14-3	64
399944	127	10633	NT_032977.8	GGTGGTAATTTGTCACAGCA	3-14-3	73
399945	84	11308	NT_032977.8	AAGGTCACACAGTTAAGAGT	3-14-3	89
399947	126	22292	NT_032977.8	GGTGCATAAGGAGAAAGAGA	3-14-3	70
399948	147	24858	NT_032977.8	TGAGTTCATTTAAGAGTGGA	3-14-3	46
399949	8	417	NM_174936.2	CCTCGGAACGCAAGGCTAGC	3-14-3	74
399950	12	606	NM_174936.2	GGATCTTGGTGAGGTATCCC	3-14-3	68
399951	13	615	NM_174936.2	AGACATGCAGGATCTTGGTG	3-14-3	67
399952	16	651	NM_174936.2	TCATCTTCACCAGGAAGCCA	3-14-3	74
399953	20	840	NM_174936.2	GTATGCTGGTGTCTAGGAGA	3-14-3	59
399954	22	866	NM_174936.2	GCCCTCGATTTCCCGGTGGT	3-14-3	83
399955	23	880	NM_174936.2	GTGACCATGACCCTGCCCTC	3-14-3	62
399956	27	975	NM_174936.2	TGACCACCCCTGCCAGGTGG	3-14-3	78
399957	30	1045	NM_174936.2	TTCCCTTGGCAGTTGAGCAC	3-14-3	82
399958	35	1335	NM_174936.2	AGTTGGTCCCCAAAGTCCCC	3-14-3	78
399959	37	1352	NM_174936.2	GTCCACACAGCGGCCAAAGT	3-14-3	89
399960	40	1400	NM_174936.2	GCTGCAGTCGCTGGAGGCAC	3-14-3	64
399961	41	1411	NM_174936.2	ACAAAGCAGGTGCTGCAGTC	3-14-3	63
399962	42	1470	NM_174936.2	GCATCATGGCTGCAATGCCA	3-14-3	68
399963	43	1478	NM_174936.2	GGCAGACAGCATCATGGCTG	3-14-3	70
399964	44	1526	NM_174936.2	GAAGTGGATCAGTCTCTGCC	3-14-3	70
399965	46	1539	NM_174936.2	CATCTTTGGCAGAGAAGTGG	3-14-3	49
399966	47	1545	NM_174936.2	TGATGACATCTTTGGCAGAG	3-14-3	78
399967	48	1552	NM_174936.2	GCCTCATTGATGACATCTTT	3-14-3	82
399968	49	1564	NM_174936.2	TCAGGGAACCAGGCCTCATT	3-14-3	71
399969	51	1583	NM_174936.2	GGTCAGTACCCGCTGGTCCT	3-14-3	82
399970	53	1645	NM_174936.2	CTGCAAAACAGCTGCCAACC	3-14-3	74
399971	55	1740	NM_174936.2	AGAAACTGGAGCAGCTCAGC	3-14-3	48
399972	56	1746	NM_174936.2	TCCTGGAGAACTGGAGCAG	3-14-3	63
399973	61	2105	NM_174936.2	CTTGACTTTGCATTCCAGAC	3-14-3	74
399974	63	2415	NM_174936.2	AACCATTTTAAAGCTCAGCC	3-14-3	71
399975	65	2509	NM_174936.2	CCCCTCAAGGGCCAGGCCA	3-14-3	91
399976	122	2582	NM_174936.2	GGAGGGAGCTTCCTGGCACC	3-14-3	67
399977	71	2906	NM_174936.2	TCTGGCTAGATGCCATCCAG	3-14-3	89
399978	73	2988	NM_174936.2	AGCCTGGCATAGAGCAGAGT	3-14-3	80
399979	135	2994	NM_174936.2	TAGCACAGCCTGGCATAGAG	3-14-3	83
399980	74	3233	NM_174936.2	AAGTAAGAAGAGGCTTGGCT	3-14-3	50
399981	77	3477	NM_174936.2	ACCCAAAAGATAAATGTCTG	3-14-3	55
399982	99	3550	NM_174936.2	ATAAATATCTTCAAGTTACA	3-14-3	36
399983	100	13746	NT_032977.8	ATCTCAGGACAGGTGAGCAA	3-14-3	96
399984	116	13760	NT_032977.8	GAGTAGAGATTCTCATCTCA	3-14-3	71
399985	117	13828	NT_032977.8	GAGTCTTCTGAAGTGCCATC	3-14-3	76

IsisNo	SEQ ID NO	5' Target Site	Target Nucleic Acid	Sequence	Motif	% Inhibition
399986	81	13903	NT_032977.8	AAGCAGGGCCTCAGGTGGAA	3-14-3	68
399987	83	13986	NT_032977.8	AAGGAAGACTTCAGGCAGGT	3-14-3	59
399988	137	14112	NT_032977.8	TAGGGAGAGCTCACAGATGC	3-14-3	31
399989	92	14397	NT_032977.8	AGAGACAGGAAGCTGCAGCT	3-14-3	65
399990	82	14670	NT_032977.8	AAGGAAAGGGAGGCCTAGAG	3-14-3	59
399992	130	2095	AK124635.1	GTGCTGACCACACAGTCCTG	3-14-3	94
399993	107	3056	NT_032977.8	CCCACTATAATGGCAAGCCC	3-14-3	76
399994	80	4306	NT_032977.8	AACCCAGTTCTAATGCACCT	3-14-3	82
399995	106	5140	NT_032977.8	CCAGTCAGAGTAGAACAGAG	3-14-3	74
399996	121	5599	NT_032977.8	GGAGCCTACATGTGCAGAGA	3-14-3	65
399997	94	5667	NT_032977.8	AGCATGGCACCAGCATCTGC	3-14-3	77
399998	108	6652	NT_032977.8	CCCAGCCCTATCAGGAAGTG	3-14-3	78
399999	144	7099	NT_032977.8	TGACATCCAGGAGGGAGGAG	3-14-3	43
400000	91	7556	NT_032977.8	AGACTGATGGAAGGCATTGA	3-14-3	84
400001	131	7565	NT_032977.8	GTGTTGAGCAGACTGATGGA	3-14-3	73
400002	145	8836	NT_032977.8	TGACATCTTGTCTGGGAGCC	3-14-3	82
400003	90	8948	NT_032977.8	AGACTAGGAGCCTGAGTTTT	3-14-3	48
400004	125	9099	NT_032977.8	GGCCTGCAGAAGCCAGAGAG	3-14-3	45
400005	148	10252	NT_032977.8	TGGCAGCAACTCAGACATAT	3-14-3	73
400006	79	11472	NT_032977.8	AAATGCAGGGCTAAAATCAC	3-14-3	78
400007	88	12715	NT_032977.8	ACTGGATACATTGGCAGACA	3-14-3	77
400008	111	12928	NT_032977.8	CTAGAGGAACCACTAGATAT	3-14-3	78
400009	86	15471	NT_032977.8	ACAGCATTCTTGTTAGGAG	3-14-3	73
400010	97	16134	NT_032977.8	AGTCAAGCTGCTGCCAGAG	3-14-3	74
400011	120	16668	NT_032977.8	GCTAGTTATTAAGCACCTGC	3-14-3	75
400012	150	17267	NT_032977.8	TGTGAGCTCTGGCCAGTGG	3-14-3	64
400013	115	18377	NT_032977.8	GAGTAAGGCAGGTTACTCTC	3-14-3	88
400014	134	18408	NT_032977.8	TAGATGTGACTAACATTTAA	3-14-3	58
400015	105	19203	NT_032977.8	CACATTAGCCTTGCTCAAGT	3-14-3	89
400018	109	20188	NT_032977.8	CCCCTGCACAGAGCCTGGCA	3-14-3	62
400019	141	20624	NT_032977.8	TCATGGCTGCAATGCCTGGT	3-14-3	47
400020	93	20995	NT_032977.8	AGAGAGGAGGGCTTAAAGAA	3-14-3	66
400021	95	21082	NT_032977.8	AGCTGCCAACCTGCAAAAAG	3-14-3	61
400022	143	21481	NT_032977.8	TGAAAATCCATCCAGCACTG	3-14-3	90
400023	89	21589	NT_032977.8	AGAACCATGGAGCACCTGAG	3-14-3	83
400024	123	21696	NT_032977.8	GGCACTGCCCTTCCACCAA	3-14-3	79
400025	118	24907	NT_032977.8	GCACCATCCAGACCAGAATC	3-14-3	78
400026	114	25413	NT_032977.8	GAGAGGTTTCAGATCCAGGCC	3-14-3	81

Antisense oligonucleotides with the following ISIS Nos exhibited at least 80% inhibition of PCSK9 mRNA levels: 399806, 399814, 399817, 399819, 399821, 399827, 399836, 399837, 399854, 399867, 399889, 399891, 399906, 399907, 399908, 399913, 399920, 399924, 399935, 399945, 399959, 399975, 399977, 399983, 399992, 400000, 400013, 400015, 400022, and 400023. The target segments to which these antisense oligonucleotides are targeted are active

target segments. The target regions to which these antisense oligonucleotides are targeted are active target regions.

ISIS Nos 399814, 399819, 399836, 399891, 399906, 399907, 399913, 399935, 399945, 399959, 399975, 399977, 399983, 399992, 400013, 400015, and 400022 each exhibited at least 5 85% inhibition of PCSK9 mRNA levels.

ISIS Nos 399836, 399891, 399906, 399907, 399913, 399975, 399983, 399992, and 400022 each exhibited at least 90% inhibition of PCSK9 mRNA levels.

Example 2: Antisense inhibition of human PCSK9 in HepG2 cells

10 Antisense oligonucleotides were tested for their ability to inhibit the expression of PCSK9 mRNA in cultured HepG2 cells. HepG2 cells at a density of 10000 cells per well in a 96-well plate were treated with 1500 nM of antisense oligonucleotide. After a treatment period of approximately 24 hours, RNA was isolated from the cells and PCSK9 mRNA levels were measured by quantitative real-time PCR, as described herein. PCSK9 mRNA levels were 15 adjusted according to total RNA content as measured by RIBOGREEN®. Results are presented as percent inhibition of PCSK9, relative to untreated control cells.

Isis Nos. 399819, 395149, 395150, 395151, 395152, 395153, 395154, 395155, 395156, 395157, 395158, 395161, 395162, 395163, 395164, 395165, 395166, 395167, 395168, 395172, 395173, 395174, 395178, 395179, 395182, 395183, 395185, 395186, 395187, 395189, 395190, 20 395191, 395193, 395194, 395195, 395198, 395199, 395203, 395207, 395210, 395211, 395213, 395214, 395221, 395222, 399793, 399794, 399795, 399798, 399801, 399803, 399804, 399806, 399807, 399812, 399813, 399814, 399816, 399817, 399820, 399821, 399822, 399823, 399827, 399828, 399829, 399833, 399834, 399836, 399837, 399841, 399844, 399846, 399848, 399849, 399851, 399852, 399854, 399855, 399856, 399857, 399862, 399865, 399867, 399868, 399872, 25 399873, 399874, 399875, 399876, 399877, 399879, 399880, 399883, 399884, 399885, 399886, 399887, 399888, 399889, 399890, 399891, 399892, 399894, 399895, 399896, 399900, 399901, 399902, 399904, 399905, 399906, 399907, 399908, 399909, 399911, 399912, 399913, 399915, 399916, 399918, 399920, 399921, 399924, 399925, 399929, 399931, 399935, 399936, 399937, 399943, 399944, 399945, 399949, 399950, 399954, 399957, 399959, 399960, 399962, 399963, 30 399966, 399967, 399968, 399969, 399970, 399972, 399973, 399975, 399976, 399977, 399978, 399979, 399983, 399984, 399985, 399986, 399989, 399990, 399992, 399996, 399997, 399998, 400000, 400001, 400002, 400004, 400005, 400007, 400008, 400009, 400010, 400012, 400013, 400015, 400018, 400021, 400023, 400024, 400025, and 400026 each inhibited PCSK9 by at

least 70% in this experiment. The target segments to which these antisense oligonucleotides are targeted are active target segments. The target regions to which these antisense oligonucleotides are targeted are active target regions.

Isis Nos 399819, 395150, 395152, 395153, 395154, 395155, 395156, 395158, 395163,
 5 395164, 395165, 395166, 395167, 395168, 395173, 395178, 395183, 395185, 395186, 395187,
 395189, 395190, 395193, 395194, 395199, 395203, 395210, 395213, 395214, 399793, 399798,
 399801, 399804, 399806, 399813, 399816, 399820, 399821, 399822, 399836, 399849, 399856,
 399857, 399862, 399868, 399875, 399877, 399880, 399885, 399886, 399887, 399888, 399889,
 399890, 399894, 399896, 399900, 399901, 399904, 399905, 399906, 399907, 399911, 399912,
 10 399916, 399920, 399925, 399935, 399936, 399937, 399945, 399954, 399957, 399959, 399960,
 399962, 399968, 399969, 399973, 399976, 399977, 399978, 399989, 399992, 400002, 400004,
 400007, 400012, 400013, 400023, and 400024 each inhibited PCSK9 by at least 80% in this
 experiment.

Isis Nos 399819, 395152, 395153, 395155, 395156, 395158, 395163, 395164, 395165,
 15 395166, 395168, 395178, 395183, 395185, 395187, 395189, 395190, 395194, 395199, 395203,
 395214, 399793, 399804, 399813, 399821, 399822, 399836, 399856, 399868, 399877, 399887,
 399888, 399890, 399900, 399904, 399905, 399907, 399911, 399912, 399916, 399925, 399936,
 399954, 399960, 399962, 399969, 399976, 399977, 399978, 399989, 399992, 400012, 400013,
 400023, and 400024 each inhibited PCSK9 by at least 85% in this experiment.

20 Isis Nos 399819, 395165, 395183, 395185, 399868, 399900, 399907, 399911, 399912,
 399916, 399936, 399969, and 400024 each inhibited PCSK9 by at least 90% in this experiment.

Example 3: Antisense inhibition of human PCSK9 (HepB3 cells)

Antisense oligonucleotides targeted to a PCSK9 nucleic acid were tested for their effects
 25 on PCSK9 mRNA *in vitro*. Cultured HepB3 cells at a density of 4000 cells per well in a 96-well
 plate were treated with 75 nM of antisense oligonucleotide. After a treatment period of
 approximately 24 hours, RNA was isolated from the cells and PCSK9 mRNA levels were
 measured by quantitative real-time PCR, as described herein. PCSK9 mRNA levels were
 adjusted according to total RNA content as measured by RIBOGREEN®. Results are presented
 30 as percent inhibition of PCSK9, relative to untreated control cells. Antisense oligonucleotides
 that exhibited at least 30% inhibition of PCSK9 expression are shown in Tables 16, 17 and 18.

The motif column indicates the wing-gap-wing motif of each antisense oligonucleotide.
 Antisense oligonucleotides were designed as 5-10-5 gapmers, or alternatively as 3-14-3 gapmers,

or alternatively as 2-13-5 gapmers where the gap segment comprises 2'-deoxynucleotides and each wing segment comprises 2'-MOE nucleotides. As illustrated in Table 16, 17 and 18, a single nucleobase sequence may be represented by a 5-10-5 motif as well as a 3-14-3 motif as well as a 2-13-5 motif. "5' target site" indicates the 5'-most nucleotide which the antisense oligonucleotide is targeted on the indicated GENBANK Accession No.

Table 16: Antisense inhibition of PCSK9 in human cells (HepB3) targeting SEQ ID NO: 1

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
410742	294	313	GCCTGGAGCTGACGGTGCCC	5-10-5	75.1	159
405999	298	317	GACCGCCTGGAGCTGACGGT	5-10-5	70.3	160
395151	300	319	AGGACCGCCTGGAGCTGACG	5-10-5	57.3	6
405861	406	425	AAGGCTAGCACCAGCTCCTC	5-10-5	90.5	162
405862	407	426	CAAGGCTAGCACCAGCTCCT	5-10-5	92.3	163
405863	408	427	GCAAGGCTAGCACCAGCTCC	5-10-5	82.6	164
405864	409	428	CGCAAGGCTAGCACCAGCTC	5-10-5	91.8	165
395152	410	429	ACGCAAGGCTAGCACCAGCT	5-10-5	93.3	7
405865	411	430	AACGCAAGGCTAGCACCAGC	5-10-5	84.6	166
405866	412	431	GAACGCAAGGCTAGCACCAG	5-10-5	81.8	167
405867	413	432	GGAACGCAAGGCTAGCACCA	5-10-5	74.0	168
405868	414	433	CGGAACGCAAGGCTAGCACC	5-10-5	76.8	169
399793	417	436	CCTCGGAACGCAAGGCTAGC	5-10-5	77.9	8
410743	421	440	TCCTCCTCGGAACGCAAGGC	5-10-5	76.7	170
410744	446	465	GTGCTCGGGTGCTTCGGCCA	5-10-5	76.9	171
410745	466	485	TGGAAGGTGGCTGTGGTTCC	5-10-5	41.7	172
395153	480	499	CCTTGCGCAGCGGTGGAAG	5-10-5	81.1	9
406000	482	501	ATCCTTGGCGCAGCGGTGGA	5-10-5	79.1	173
406001	484	503	GGATCCTTGGCGCAGCGGTG	5-10-5	63.1	174
406002	488	507	CCACGGATCCTTGGCGCAGC	5-10-5	80.8	175
410746	507	526	CGTAGGTGCCAGGCAACCTC	5-10-5	44.8	176
410747	545	564	TGACTGCGAGAGGTGGGTCT	5-10-5	NA	177
406003	555	574	CAGTGCCTCTGACTGCGAG	5-10-5	84.2	178
406004	557	576	GGCAGTGCCTCTGACTGCG	5-10-5	56.4	179
406005	559	578	CGGGCAGTGCCTCTGACTG	5-10-5	83.4	180
406006	562	581	CGGCGGGCAGTGCCTCTGA	5-10-5	71.0	181
410748	591	610	ATCCCCGGCGGGCAGCCTGG	5-10-5	56.0	182
406007	595	614	AGGTATCCCCGGCGGGCAGC	5-10-5	76.3	183
410574	597	616	TGAGGTATCCCCGGCGGGCA	3-14-3	69.1	184
410529	597	616	TGAGGTATCCCCGGCGGGCA	5-10-5	77.4	184
410647	597	616	TGAGGTATCCCCGGCGGGCA	2-13-5	90.7	184
410575	598	617	GTGAGGTATCCCCGGCGGGC	3-14-3	71.5	185
410648	598	617	GTGAGGTATCCCCGGCGGGC	2-13-5	82.8	185
410530	598	617	GTGAGGTATCCCCGGCGGGC	5-10-5	83.2	185
410649	599	618	GGTGAGGTATCCCCGGCGGG	2-13-5	53.5	186
410576	599	618	GGTGAGGTATCCCCGGCGGG	3-14-3	56.2	186
410531	599	618	GGTGAGGTATCCCCGGCGGG	5-10-5	63.6	186
410650	600	619	TGGTGAGGTATCCCCGGCGG	2-13-5	86.1	11
399877	600	619	TGGTGAGGTATCCCCGGCGG	3-14-3	92.6	11

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
395155	600	619	TGGTGAGGTATCCCCGGCGG	5-10-5	92.7	11
410577	601	620	TTGGTGAGGTATCCCCGGCG	3-14-3	62.4	187
410532	601	620	TTGGTGAGGTATCCCCGGCG	5-10-5	63.5	187
410651	601	620	TTGGTGAGGTATCCCCGGCG	2-13-5	75.5	187
410652	602	621	CTTGGTGAGGTATCCCCGGC	2-13-5	81.2	188
410578	602	621	CTTGGTGAGGTATCCCCGGC	3-14-3	83.3	188
406008	602	621	CTTGGTGAGGTATCCCCGGC	5-10-5	95.2	188
410653	603	622	TCTTGGTGAGGTATCCCCGG	2-13-5	68.9	189
410579	603	622	TCTTGGTGAGGTATCCCCGG	3-14-3	74.0	189
410533	603	622	TCTTGGTGAGGTATCCCCGG	5-10-5	79.0	189
410580	604	623	ATCTTGGTGAGGTATCCCCG	3-14-3	62.3	190
410654	604	623	ATCTTGGTGAGGTATCCCCG	2-13-5	65.2	190
406009	604	623	ATCTTGGTGAGGTATCCCCG	5-10-5	90.7	190
410534	605	624	GATCTTGGTGAGGTATCCCC	5-10-5	59.8	191
410581	605	624	GATCTTGGTGAGGTATCCCC	3-14-3	72.9	191
410655	605	624	GATCTTGGTGAGGTATCCCC	2-13-5	77.4	191
399794	606	625	GGATCTTGGTGAGGTATCCC	5-10-5	56.5	12
410656	606	625	GGATCTTGGTGAGGTATCCC	2-13-5	68.0	12
399950	606	625	GGATCTTGGTGAGGTATCCC	3-14-3	74.4	12
410535	607	626	AGGATCTTGGTGAGGTATCC	5-10-5	65.7	192
410582	607	626	AGGATCTTGGTGAGGTATCC	3-14-3	69.5	192
410657	607	626	AGGATCTTGGTGAGGTATCC	2-13-5	73.1	192
406010	609	628	GCAGGATCTTGGTGAGGTAT	5-10-5	56.9	193
406011	611	630	ATGCAGGATCTTGGTGAGGT	5-10-5	70.7	194
406012	613	632	ACATGCAGGATCTTGGTGAG	5-10-5	69.1	195
406013	617	636	GAAGACATGCAGGATCTTGG	5-10-5	77.4	196
395156	620	639	ATGGAAGACATGCAGGATCT	5-10-5	76.7	14
410749	628	647	AGAAGGCCATGGAAGACATG	5-10-5	59.4	197
410750	638	657	GAAGCCAGGAAGAAGGCCAT	5-10-5	57.5	198
399879	646	665	TTCACCAGGAAGCCAGGAAG	3-14-3	91.9	15
406014	648	667	TCTTACCAGGAAGCCAGGA	5-10-5	94.0	199
406015	653	672	ACTCATCTTACCAGGAAGC	5-10-5	78.8	200
406016	655	674	CCACTCATCTTACCAGGAA	5-10-5	87.2	201
410730	657	676	CGCCACTCATCTTACCAGG	5-10-5	85.4	202
406017	659	678	GTCGCCACTCATCTTACCA	5-10-5	76.3	203
406018	661	680	AGGTCCGCACTCATCTTAC	5-10-5	63.2	204
406019	663	682	GCAGGTCGCCACTCATCTT	5-10-5	68.1	205
406020	665	684	CAGCAGGTCGCCACTCATCT	5-10-5	83.7	206
410731	667	686	TCCAGCAGGTCGCCACTCAT	5-10-5	72.9	207
410751	685	704	GGCAACTTCAAGGCCAGCTC	5-10-5	84.6	208
395158	705	724	CCTCGATGTAGTCGACATGG	5-10-5	93.9	17
410752	724	743	GCAAAGACAGAGGAGTCCTC	5-10-5	76.3	209
406021	782	801	TTCATCCGCCCGGTACCGTG	5-10-5	79.6	210
406022	784	803	TATTCATCCGCCCGGTACCG	5-10-5	78.7	211
406023	787	806	TGGTATTCATCCGCCCGGTA	5-10-5	92.5	212
406024	789	808	GCTGGTATTCATCCGCCCGG	5-10-5	69.7	213
410732	791	810	GGGCTGGTATTCATCCGCC	5-10-5	30.4	214
410753	821	840	ATACACCTCCACCAGGCTGC	5-10-5	72.8	215
406025	832	851	GTGTCTAGGAGATACACCTC	5-10-5	74.2	216
406026	837	856	TGCTGGTGTCTAGGAGATAC	5-10-5	80.5	217
405869	862	881	TCGATTTCCCGGTGGTCACT	5-10-5	87.6	218
405870	863	882	CTCGATTTCCCGGTGGTCACT	5-10-5	83.3	219
405871	864	883	CCTCGATTTCCCGGTGGTCA	5-10-5	87.0	220

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
405872	865	884	CCCTCGATTTCCTGGTGGTC	5-10-5	88.2	221
399798	866	885	GCCCTCGATTTCCTGGTGGT	5-10-5	84.3	22
399954	866	885	GCCCTCGATTTCCTGGTGGT	3-14-3	90.3	22
405873	867	886	TGCCCTCGATTTCCTGGTGG	5-10-5	90.0	222
405874	868	887	CTGCCCTCGATTTCCTGGTG	5-10-5	91.4	223
405875	869	888	CCTGCCCTCGATTTCCTGGT	5-10-5	93.5	224
405876	870	889	CCCTGCCCTCGATTTCCTGG	5-10-5	90.1	225
406027	874	893	ATGACCCTGCCCTCGATTTC	5-10-5	73.9	226
406028	876	895	CCATGACCCTGCCCTCGATT	5-10-5	92.3	227
406029	878	897	GACCATGACCCTGCCCTCGA	5-10-5	91.4	228
406030	882	901	CGGTGACCATGACCCTGCC	5-10-5	95.6	229
406031	884	903	GTCGGTGACCATGACCCTGC	5-10-5	89.6	230
410733	886	905	AAGTCGGTGACCATGACCCT	5-10-5	65.7	231
406032	888	907	CGAAGTCGGTGACCATGACC	5-10-5	88.5	232
410754	898	917	GGCACATTCTCGAAGTCGGT	5-10-5	80.1	233
395163	923	942	GTGGAAGCGGGTCCCGTCCT	5-10-5	83.9	25
410755	933	952	TGGCCTGTCTGTGGAAGCGG	5-10-5	NA	234
410756	960	979	GGTGGGTGCCATGACTGTCA	5-10-5	67.1	235
406033	967	986	CCTGCCAGGTGGGTGCCATG	5-10-5	91.2	237
406034	972	991	CCACCCCTGCCAGGTGGGTG	5-10-5	59.3	238
406035	977	996	GCTGACCACCCCTGCCAGGT	5-10-5	91.7	239
410757	985	1004	TCCCGGCCGCTGACCACCC	5-10-5	88.9	240
406036	989	1008	GGCATCCCGGCCGCTGACCA	5-10-5	84.0	241
406037	992	1011	GCCGGCATCCCGGCCGCTGA	5-10-5	55.9	242
410536	997	1016	GCCACGCCGGCATCCCGGCC	5-10-5	63.7	243
410658	997	1016	GCCACGCCGGCATCCCGGCC	2-13-5	82.0	243
410583	997	1016	GCCACGCCGGCATCCCGGCC	3-14-3	87.3	243
410537	998	1017	GGCCACGCCGGCATCCCGGC	5-10-5	58.5	244
410659	998	1017	GGCCACGCCGGCATCCCGGC	2-13-5	73.7	244
410584	998	1017	GGCCACGCCGGCATCCCGGC	3-14-3	79.5	244
410660	999	1018	TGGCCACGCCGGCATCCCGG	2-13-5	63.0	245
410585	999	1018	TGGCCACGCCGGCATCCCGG	3-14-3	73.2	245
406038	999	1018	TGGCCACGCCGGCATCCCGG	5-10-5	86.3	245
410661	1000	1019	TTGGCCACGCCGGCATCCCG	2-13-5	53.3	246
410586	1000	1019	TTGGCCACGCCGGCATCCCG	3-14-3	60.3	246
405877	1000	1019	TTGGCCACGCCGGCATCCCG	5-10-5	83.2	246
410587	1001	1020	CTTGGCCACGCCGGCATCCC	3-14-3	63.2	247
410662	1001	1020	CTTGGCCACGCCGGCATCCC	2-13-5	67.3	247
405878	1001	1020	CTTGGCCACGCCGGCATCCC	5-10-5	91.4	247
410588	1002	1021	CCTTGGCCACGCCGGCATCC	3-14-3	65.3	248
410663	1002	1021	CCTTGGCCACGCCGGCATCC	2-13-5	67.9	248
405879	1002	1021	CCTTGGCCACGCCGGCATCC	5-10-5	94.1	248
410589	1003	1022	CCCTTGGCCACGCCGGCATC	3-14-3	80.1	249
410664	1003	1022	CCCTTGGCCACGCCGGCATC	2-13-5	81.9	249
405880	1003	1022	CCCTTGGCCACGCCGGCATC	5-10-5	93.5	249
410665	1004	1023	ACCCTTGGCCACGCCGGCAT	2-13-5	78.7	28
399887	1004	1023	ACCCTTGGCCACGCCGGCAT	3-14-3	91.9	28
395165	1004	1023	ACCCTTGGCCACGCCGGCAT	5-10-5	96.7	28
410590	1005	1024	CACCCTTGGCCACGCCGGCA	3-14-3	82.2	250
410666	1005	1024	CACCCTTGGCCACGCCGGCA	2-13-5	82.7	250
405881	1005	1024	CACCCTTGGCCACGCCGGCA	5-10-5	98.3	250
410667	1006	1025	GCACCCTTGGCCACGCCGGC	2-13-5	84.7	251
410591	1006	1025	GCACCCTTGGCCACGCCGGC	3-14-3	86.3	251

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
405882	1006	1025	GCACCCTTGGCCACGCCGGC	5-10-5	91.6	251
410668	1007	1026	GGCACCCTTGGCCACGCCGG	2-13-5	91.4	252
405883	1007	1026	GGCACCCTTGGCCACGCCGG	5-10-5	92.5	252
410592	1007	1026	GGCACCCTTGGCCACGCCGG	3-14-3	93.4	252
410669	1008	1027	TGGCACCCTTGGCCACGCCG	2-13-5	69.0	253
410593	1008	1027	TGGCACCCTTGGCCACGCCG	3-14-3	88.8	253
405884	1008	1027	TGGCACCCTTGGCCACGCCG	5-10-5	90.8	253
410670	1009	1028	CTGGCACCCTTGGCCACGCC	2-13-5	74.9	254
410594	1009	1028	CTGGCACCCTTGGCCACGCC	3-14-3	75.2	254
410538	1009	1028	CTGGCACCCTTGGCCACGCC	5-10-5	78.2	254
410539	1010	1029	GCTGGCACCCTTGGCCACGC	5-10-5	61.9	255
410595	1010	1029	GCTGGCACCCTTGGCCACGC	3-14-3	83.1	255
410671	1010	1029	GCTGGCACCCTTGGCCACGC	2-13-5	83.3	255
410758	1015	1034	CGCATGCTGGCACCCTTGGC	5-10-5	73.6	256
406039	1036	1055	CAGTTGAGCACGCGCAGGCT	5-10-5	91.2	257
406040	1038	1057	GGCAGTTGAGCACGCGCAGG	5-10-5	96.5	258
399888	1040	1059	TTGGCAGTTGAGCACGCGCA	3-14-3	90.9	29
395166	1040	1059	TTGGCAGTTGAGCACGCGCA	5-10-5	96.2	29
406041	1042	1061	CCTTGGCAGTTGAGCACGCG	5-10-5	96.6	259
399801	1045	1064	TTCCCTTGGCAGTTGAGCAC	5-10-5	95.6	30
406042	1047	1066	CCTTCCCTTGGCAGTTGAGC	5-10-5	92.0	260
406043	1051	1070	GTGCCCTTCCCTTGGCAGTT	5-10-5	91.9	261
406044	1053	1072	CCGTGCCCTTCCCTTGGCAG	5-10-5	95.4	262
410759	1064	1083	GGTGCCGCTAACCGTGCCCT	5-10-5	83.7	263
410760	1088	1107	CCGAATAAACTCCAGGCCA	5-10-5	96.7	265
406045	1096	1115	TGGCTTTTCCGAATAAACTC	5-10-5	88.4	266
395168	1098	1117	GCTGGCTTTTCCGAATAAAC	5-10-5	91.9	32
405909	1100	1119	CAGCTGGCTTTTCCGAATAA	5-10-5	80.3	267
405910	1102	1121	ACCAGCTGGCTTTTCCGAAT	5-10-5	90.9	268
405911	1104	1123	GGACCAGCTGGCTTTTCCGA	5-10-5	88.0	269
405912	1108	1127	GGCTGGACCAGCTGGCTTTT	5-10-5	78.2	270
410761	1119	1138	GTGGCCCCACAGGCTGGACC	5-10-5	53.7	271
410762	1132	1151	AGCAGCACCACCAGTGGCCC	5-10-5	57.6	272
410763	1154	1173	GCTGTACCCACCCGCCAGGG	5-10-5	68.8	273
410764	1200	1219	CGACCCAGCCCTCGCCAGG	5-10-5	66.3	274
399891	1210	1229	GTGACCAGCACGACCCAGC	3-14-3	91.1	33
405913	1212	1231	CGGTGACCAGCACGACCCCA	5-10-5	93.8	275
405914	1214	1233	AGCGGTGACCAGCACGACCC	5-10-5	90.4	276
405915	1216	1235	GCAGCGGTGACCAGCACGAC	5-10-5	86.8	277
405916	1218	1237	CGGCAGCGGTGACCAGCACG	5-10-5	91.3	278
410734	1219	1238	CCGGCAGCGGTGACCAGCAC	5-10-5	65.8	279
405917	1222	1241	TTGCCGGCAGCGGTGACCAG	5-10-5	62.0	280
405918	1224	1243	AGTTGCCGGCAGCGGTGACC	5-10-5	33.5	281
405919	1226	1245	GAAGTTGCCGGCAGCGGTGA	5-10-5	68.2	282
405920	1228	1247	CGGAAGTTGCCGGCAGCGGT	5-10-5	86.2	283
405921	1230	1249	CCCGGAAGTTGCCGGCAGCG	5-10-5	85.5	284
405922	1232	1251	GTCCCGGAAGTTGCCGGCAG	5-10-5	86.0	285
410765	1273	1292	ATGACCTCGGGAGCTGAGGC	5-10-5	50.4	286
410766	1283	1302	CCCAACTGTGATGACCTCGG	5-10-5	70.6	287
405923	1295	1314	GGCATTGGTGGCCCAACTG	5-10-5	94.3	288
410767	1305	1324	GCTGGTCTTGGGCATTGGTG	5-10-5	65.1	289
405924	1318	1337	CCCAGGGTCACCGGCTGGTC	5-10-5	93.1	290
410735	1320	1339	TCCCCAGGGTCACCGGCTGG	5-10-5	78.1	291

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
405925	1322	1341	AGTCCCCAGGGTCACCGGCT	5-10-5	93.5	292
405926	1324	1343	AAAGTCCCCAGGGTCACCGG	5-10-5	94.6	293
405927	1328	1347	CCCCAAAGTCCCCAGGGTCA	5-10-5	94.5	294
405928	1333	1352	TTGGTCCCCAAAGTCCCCAG	5-10-5	90.0	295
405929	1337	1356	AAAGTTGGTCCCCAAAGTCC	5-10-5	85.5	296
399895	1340	1359	GCCAAAGTTGGTCCCCAAAG	3-14-3	84.6	36
395173	1340	1359	GCCAAAGTTGGTCCCCAAAG	5-10-5	94.8	36
405930	1342	1361	CGGCCAAAGTTGGTCCCCAA	5-10-5	92.9	297
405931	1344	1363	AGCGGCCAAAGTTGGTCCCC	5-10-5	88.8	298
405932	1346	1365	ACAGCGGCCAAAGTTGGTCC	5-10-5	90.6	299
405933	1348	1367	ACACAGCGGCCAAAGTTGGT	5-10-5	NA	300
405934	1350	1369	CCACACAGCGGCCAAAGTTG	5-10-5	92.7	301
405935	1354	1373	AGGTCCACACAGCGGCCAAA	5-10-5	86.0	302
410736	1356	1375	AGAGGTCCACACAGCGGCCA	5-10-5	73.8	303
405936	1358	1377	AAAGAGGTCCACACAGCGGC	5-10-5	93.9	304
410768	1380	1399	CAATGATGTCTCCCTGGG	5-10-5	79.7	305
405937	1387	1406	GAGGCACCAATGATGTCTC	5-10-5	77.7	306
405938	1391	1410	GCTGGAGGCACCAATGATGT	5-10-5	75.5	307
405939	1393	1412	TCGCTGGAGGCACCAATGAT	5-10-5	70.6	308
405940	1395	1414	AGTCGCTGGAGGCACCAATG	5-10-5	84.4	309
405941	1397	1416	GCAGTCGCTGGAGGCACCAA	5-10-5	90.1	310
399804	1400	1419	GCTGCAGTCGCTGGAGGCAC	5-10-5	80.8	40
399960	1400	1419	GCTGCAGTCGCTGGAGGCAC	3-14-3	82.4	40
405942	1402	1421	GTGCTGCAGTCGCTGGAGGC	5-10-5	69.8	311
405943	1404	1423	AGGTGCTGCAGTCGCTGGAG	5-10-5	83.6	312
410737	1406	1425	GCAGGTGCTGCAGTCGCTGG	5-10-5	49.8	313
405944	1407	1426	AGCAGGTGCTGCAGTCGCTG	5-10-5	80.7	314
405945	1409	1428	AAAGCAGGTGCTGCAGTCGC	5-10-5	41.1	315
405946	1413	1432	ACACAAAGCAGGTGCTGCAG	5-10-5	70.4	316
405947	1415	1434	TGACACAAAGCAGGTGCTGC	5-10-5	72.5	317
410769	1425	1444	TCCCCTCTGTGACACAAAG	5-10-5	84.9	318
405948	1467	1486	TCATGGCTGCAATGCCAGCC	5-10-5	45.9	319
399806	1470	1489	GCATCATGGCTGCAATGCCA	5-10-5	82.8	42
399962	1470	1489	GCATCATGGCTGCAATGCCA	3-14-3	86.1	42
405949	1472	1491	CAGCATCATGGCTGCAATGC	5-10-5	84.9	320
405950	1474	1493	GACAGCATCATGGCTGCAAT	5-10-5	76.9	321
405951	1476	1495	CAGACAGCATCATGGCTGCA	5-10-5	75.4	322
405952	1480	1499	TCGGCAGACAGCATCATGGC	5-10-5	85.1	323
410738	1482	1501	GCTCGGCAGACAGCATCATG	5-10-5	68.4	324
405953	1484	1503	CGGCTCGGCAGACAGCATCA	5-10-5	93.6	325
405954	1486	1505	TCCGGCTCGGCAGACAGCAT	5-10-5	87.5	326
410770	1500	1519	CGGCCAGGGTGAGCTCCGGC	5-10-5	68.5	327
405955	1513	1532	CTCTGCCTCAACTCGGCCAG	5-10-5	94.2	328
405956	1515	1534	GTCTCTGCCTCAACTCGGCC	5-10-5	94.3	329
405958	1519	1538	ATCAGTCTCTGCCTCAACTC	5-10-5	80.3	331
405959	1521	1540	GGATCAGTCTCTGCCTCAAC	5-10-5	95.4	332
405960	1523	1542	GTGGATCAGTCTCTGCCTCA	5-10-5	90.1	333
405961	1525	1544	AAGTGGATCAGTCTCTGCCT	5-10-5	88.8	334
405962	1528	1547	GAGAAGTGGATCAGTCTCTG	5-10-5	56.1	335
410739	1530	1549	CAGAGAAGTGGATCAGTCTC	5-10-5	NA	336
405963	1532	1551	GGCAGAGAAGTGGATCAGTC	5-10-5	59.7	337
405964	1536	1555	CTTTGGCAGAGAAGTGGATC	5-10-5	45.3	338
405965	1541	1560	GACATCTTTGGCAGAGAAGT	5-10-5	55.9	339

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
405966	1543	1562	ATGACATCTTTGGCAGAGAA	5-10-5	51.3	340
405967	1547	1566	ATTGATGACATCTTTGGCAG	5-10-5	64.4	341
405968	1549	1568	TCATTGATGACATCTTTGGC	5-10-5	74.6	342
399967	1552	1571	GCCTCATTGATGACATCTTT	3-14-3	80.1	48
405969	1554	1573	AGGCCTCATTGATGACATCT	5-10-5	63.0	343
405970	1556	1575	CCAGGCCTCATTGATGACAT	5-10-5	66.8	344
410740	1558	1577	AACCAGGCCTCATTGATGAC	5-10-5	46.8	345
405885	1560	1579	GGAACCAGGCCTCATTGATG	5-10-5	73.4	346
410596	1562	1581	AGGGAACCAGGCCTCATTGA	3-14-3	NA	348
410672	1562	1581	AGGGAACCAGGCCTCATTGA	2-13-5	NA	348
405887	1562	1581	AGGGAACCAGGCCTCATTGA	5-10-5	NA	348
410597	1563	1582	CAGGGAACCAGGCCTCATTG	3-14-3	NA	349
405888	1563	1582	CAGGGAACCAGGCCTCATTG	5-10-5	NA	349
410673	1563	1582	CAGGGAACCAGGCCTCATTG	2-13-5	NA	349
410674	1564	1583	TCAGGGAACCAGGCCTCATT	2-13-5	60.7	49
399812	1564	1583	TCAGGGAACCAGGCCTCATT	5-10-5	68.7	49
399968	1564	1583	TCAGGGAACCAGGCCTCATT	3-14-3	84.5	49
410598	1565	1584	CTCAGGGAACCAGGCCTCAT	3-14-3	74.5	350
410675	1565	1584	CTCAGGGAACCAGGCCTCAT	2-13-5	76.9	350
405889	1565	1584	CTCAGGGAACCAGGCCTCAT	5-10-5	80.2	350
410599	1566	1585	CCTCAGGGAACCAGGCCTCA	3-14-3	70.6	351
410676	1566	1585	CCTCAGGGAACCAGGCCTCA	2-13-5	77.8	351
405890	1566	1585	CCTCAGGGAACCAGGCCTCA	5-10-5	87.7	351
410600	1567	1586	TCCTCAGGGAACCAGGCCTC	3-14-3	76.5	352
410677	1567	1586	TCCTCAGGGAACCAGGCCTC	2-13-5	88.4	352
405891	1567	1586	TCCTCAGGGAACCAGGCCTC	5-10-5	96.1	352
405892	1568	1587	GTCCTCAGGGAACCAGGCCT	5-10-5	71.4	353
410601	1568	1587	GTCCTCAGGGAACCAGGCCT	3-14-3	72.7	353
410678	1568	1587	GTCCTCAGGGAACCAGGCCT	2-13-5	75.0	353
395178	1569	1588	GGTCCTCAGGGAACCAGGCC	5-10-5	76.7	50
410679	1569	1588	GGTCCTCAGGGAACCAGGCC	2-13-5	77.6	50
399900	1569	1588	GGTCCTCAGGGAACCAGGCC	3-14-3	92.0	50
408653	1570	1589	TGGTCCTCAGGGAACCAGGC	5-10-5	42.5	354
410602	1570	1589	TGGTCCTCAGGGAACCAGGC	3-14-3	66.5	354
410680	1570	1589	TGGTCCTCAGGGAACCAGGC	2-13-5	71.6	354
410603	1571	1590	CTGGTCCTCAGGGAACCAGG	3-14-3	40.8	355
410681	1571	1590	CTGGTCCTCAGGGAACCAGG	2-13-5	44.4	355
405971	1571	1590	CTGGTCCTCAGGGAACCAGG	5-10-5	65.5	355
410540	1572	1591	GCTGGTCCTCAGGGAACCAG	5-10-5	50.9	356
410682	1572	1591	GCTGGTCCTCAGGGAACCAG	2-13-5	54.1	356
410604	1572	1591	GCTGGTCCTCAGGGAACCAG	3-14-3	62.5	356
405972	1573	1592	CGCTGGTCCTCAGGGAACCA	5-10-5	77.6	357
405973	1578	1597	GTACCCGCTGGTCCTCAGGG	5-10-5	83.8	358
405974	1580	1599	CAGTACCCGCTGGTCCTCAG	5-10-5	89.0	359
399813	1583	1602	GGTCAGTACCCGCTGGTCCT	5-10-5	72.4	51
399969	1583	1602	GGTCAGTACCCGCTGGTCCT	3-14-3	93.4	51
410771	1628	1647	ACCTGCCCATGGGTGCTGG	5-10-5	NA	360
395181	1640	1659	AAACAGCTGCCAACCTGCC	5-10-5	87.5	52
405975	1642	1661	CAAAACAGCTGCCAACCTGC	5-10-5	77.4	361
405976	1647	1666	TCCTGCAAACAGCTGCCAA	5-10-5	81.2	362
405977	1649	1668	AGTCCTGCAAACAGCTGCC	5-10-5	89.5	363
410772	1660	1679	GCTGACCATACAGTCCTGCA	5-10-5	91.2	364
405978	1672	1691	GGCCCCGAGTGTGCTGACCA	5-10-5	95.3	365

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
399904	1675	1694	GTAGGCCCCCGAGTGTGCTGA	3-14-3	92.6	54
405979	1677	1696	GTGTAGGCCCCCGAGTGTGCT	5-10-5	85.5	366
405980	1679	1698	CCGTGTAGGCCCCCGAGTGTG	5-10-5	86.5	367
405981	1681	1700	ATCCGTGTAGGCCCCCGAGTG	5-10-5	77.8	368
410741	1683	1702	CCATCCGTGTAGGCCCCCGAG	5-10-5	78.4	369
405982	1685	1704	GGCCATCCGTGTAGGCCCCCG	5-10-5	86.7	370
405983	1687	1706	GTGGCCATCCGTGTAGGCCCC	5-10-5	73.1	371
405984	1735	1754	CTGGAGCAGCTCAGCAGCTC	5-10-5	83.4	372
405985	1737	1756	AACTGGAGCAGCTCAGCAGC	5-10-5	50.7	373
405986	1742	1761	GGAGAACTGGAGCAGCTCA	5-10-5	75.6	374
405987	1744	1763	CTGGAGAACTGGAGCAGCT	5-10-5	88.0	375
399905	1812	1831	CGTTGTGGGCCCGGCAGACC	3-14-3	91.2	57
395183	1812	1831	CGTTGTGGGCCCGGCAGACC	5-10-5	93.1	57
410541	1849	1868	CACCTGGCAATGGCGTAGAC	5-10-5	46.1	376
410605	1849	1868	CACCTGGCAATGGCGTAGAC	3-14-3	67.4	376
410683	1849	1868	CACCTGGCAATGGCGTAGAC	2-13-5	71.8	376
410606	1850	1869	GCACCTGGCAATGGCGTAGA	3-14-3	74.3	377
410542	1850	1869	GCACCTGGCAATGGCGTAGA	5-10-5	75.5	377
410684	1850	1869	GCACCTGGCAATGGCGTAGA	2-13-5	78.7	377
410543	1851	1870	AGCACCTGGCAATGGCGTAG	5-10-5	76.4	378
410685	1851	1870	AGCACCTGGCAATGGCGTAG	2-13-5	76.9	378
410607	1851	1870	AGCACCTGGCAATGGCGTAG	3-14-3	77.1	378
410544	1852	1871	CAGCACCTGGCAATGGCGTA	5-10-5	62.7	379
410608	1852	1871	CAGCACCTGGCAATGGCGTA	3-14-3	69.6	379
410686	1852	1871	CAGCACCTGGCAATGGCGTA	2-13-5	81.0	379
410545	1853	1872	GCAGCACCTGGCAATGGCGT	5-10-5	75.5	380
410687	1853	1872	GCAGCACCTGGCAATGGCGT	2-13-5	79.2	380
410609	1853	1872	GCAGCACCTGGCAATGGCGT	3-14-3	83.2	380
410610	1854	1873	GGCAGCACCTGGCAATGGCG	3-14-3	67.5	381
410688	1854	1873	GGCAGCACCTGGCAATGGCG	2-13-5	89.3	381
405988	1854	1873	GGCAGCACCTGGCAATGGCG	5-10-5	95.9	381
410546	1855	1874	AGGCAGCACCTGGCAATGGC	5-10-5	74.8	382
410689	1855	1874	AGGCAGCACCTGGCAATGGC	2-13-5	83.9	382
410611	1855	1874	AGGCAGCACCTGGCAATGGC	3-14-3	88.2	382
410612	1856	1875	CAGGCAGCACCTGGCAATGG	3-14-3	72.8	383
410690	1856	1875	CAGGCAGCACCTGGCAATGG	2-13-5	74.8	383
405989	1856	1875	CAGGCAGCACCTGGCAATGG	5-10-5	88.1	383
410547	1857	1876	GCAGGCAGCACCTGGCAATG	5-10-5	63.0	384
410691	1857	1876	GCAGGCAGCACCTGGCAATG	2-13-5	70.2	384
410613	1857	1876	GCAGGCAGCACCTGGCAATG	3-14-3	76.7	384
395184	1858	1877	AGCAGGCAGCACCTGGCAAT	5-10-5	68.5	58
410692	1858	1877	AGCAGGCAGCACCTGGCAAT	2-13-5	69.1	58
399906	1858	1877	AGCAGGCAGCACCTGGCAAT	3-14-3	94.2	58
410614	1859	1878	TAGCAGGCAGCACCTGGCAA	3-14-3	36.6	385
410548	1859	1878	TAGCAGGCAGCACCTGGCAA	5-10-5	75.0	385
410693	1859	1878	TAGCAGGCAGCACCTGGCAA	2-13-5	82.0	385
405990	1860	1879	GTAGCAGGCAGCACCTGGCA	5-10-5	96.8	386
410773	1905	1924	TGGCCTCAGCTGGTGGAGCT	5-10-5	61.3	387
410549	1915	1934	GTCCCCATGCTGGCCTCAGC	5-10-5	63.0	388
410615	1915	1934	GTCCCCATGCTGGCCTCAGC	3-14-3	72.5	388
410694	1915	1934	GTCCCCATGCTGGCCTCAGC	2-13-5	74.8	388
410550	1916	1935	GGTCCCCATGCTGGCCTCAG	5-10-5	69.4	389
410616	1916	1935	GGTCCCCATGCTGGCCTCAG	3-14-3	80.7	389

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
410695	1916	1935	GGTCCCCATGCTGGCCTCAG	2-13-5	85.5	389
410551	1917	1936	GGGTCCCCATGCTGGCCTCA	5-10-5	68.7	390
410696	1917	1936	GGGTCCCCATGCTGGCCTCA	2-13-5	86.3	390
410617	1917	1936	GGGTCCCCATGCTGGCCTCA	3-14-3	86.5	390
410552	1918	1937	CGGGTCCCCATGCTGGCCTC	5-10-5	77.9	391
410618	1918	1937	CGGGTCCCCATGCTGGCCTC	3-14-3	86.7	391
410697	1918	1937	CGGGTCCCCATGCTGGCCTC	2-13-5	87.0	391
410553	1919	1938	ACGGGTCCCCATGCTGGCCT	5-10-5	72.8	392
410619	1919	1938	ACGGGTCCCCATGCTGGCCT	3-14-3	84.1	392
410698	1919	1938	ACGGGTCCCCATGCTGGCCT	2-13-5	87.0	392
410699	1920	1939	CACGGGTCCCCATGCTGGCC	2-13-5	79.5	59
395185	1920	1939	CACGGGTCCCCATGCTGGCC	5-10-5	92.7	59
399907	1920	1939	CACGGGTCCCCATGCTGGCC	3-14-3	93.7	59
410620	1921	1940	ACACGGGTCCCCATGCTGGC	3-14-3	74.4	393
410554	1921	1940	ACACGGGTCCCCATGCTGGC	5-10-5	79.7	393
410700	1921	1940	ACACGGGTCCCCATGCTGGC	2-13-5	84.4	393
410621	1922	1941	GACACGGGTCCCCATGCTGG	3-14-3	76.0	394
410701	1922	1941	GACACGGGTCCCCATGCTGG	2-13-5	83.4	394
405991	1922	1941	GACACGGGTCCCCATGCTGG	5-10-5	91.9	394
410555	1923	1942	GGACACGGGTCCCCATGCTG	5-10-5	77.0	395
410622	1923	1942	GGACACGGGTCCCCATGCTG	3-14-3	79.8	395
410702	1923	1942	GGACACGGGTCCCCATGCTG	2-13-5	85.0	395
410703	1924	1943	TGGACACGGGTCCCCATGCT	2-13-5	70.4	396
410623	1924	1943	TGGACACGGGTCCCCATGCT	3-14-3	78.9	396
405992	1924	1943	TGGACACGGGTCCCCATGCT	5-10-5	89.3	396
410704	1925	1944	GTGGACACGGGTCCCCATGC	2-13-5	78.6	397
410556	1925	1944	GTGGACACGGGTCCCCATGC	5-10-5	81.4	397
410624	1925	1944	GTGGACACGGGTCCCCATGC	3-14-3	82.8	397
410625	1926	1945	AGTGGACACGGGTCCCCATG	3-14-3	64.4	398
410705	1926	1945	AGTGGACACGGGTCCCCATG	2-13-5	74.7	398
405993	1926	1945	AGTGGACACGGGTCCCCATG	5-10-5	85.5	398
410706	1927	1946	CAGTGGACACGGGTCCCCAT	2-13-5	70.8	399
410557	1927	1946	CAGTGGACACGGGTCCCCAT	5-10-5	74.2	399
410626	1927	1946	CAGTGGACACGGGTCCCCAT	3-14-3	76.8	399
410627	1928	1947	GCAGTGGACACGGGTCCCCA	3-14-3	71.4	400
410707	1928	1947	GCAGTGGACACGGGTCCCCA	2-13-5	72.8	400
405994	1928	1947	GCAGTGGACACGGGTCCCCA	5-10-5	95.2	400
410708	1929	1948	GGCAGTGGACACGGGTCCCC	2-13-5	79.0	401
410628	1929	1948	GGCAGTGGACACGGGTCCCC	3-14-3	88.1	401
410558	1929	1948	GGCAGTGGACACGGGTCCCC	5-10-5	88.9	401
410629	1930	1949	TGGCAGTGGACACGGGTCCC	3-14-3	66.5	402
410709	1930	1949	TGGCAGTGGACACGGGTCCC	2-13-5	66.9	402
405995	1930	1949	TGGCAGTGGACACGGGTCCC	5-10-5	92.4	402
410630	1931	1950	GTGGCAGTGGACACGGGTCC	3-14-3	54.1	403
410710	1931	1950	GTGGCAGTGGACACGGGTCC	2-13-5	61.4	403
410559	1931	1950	GTGGCAGTGGACACGGGTCC	5-10-5	77.5	403
410711	1932	1951	GGTGGCAGTGGACACGGGTTC	2-13-5	NA	404
410631	1932	1951	GGTGGCAGTGGACACGGGTTC	3-14-3	NA	404
410560	1932	1951	GGTGGCAGTGGACACGGGTTC	5-10-5	42.5	404
410712	1933	1952	TGGTGGCAGTGGACACGGGT	2-13-5	NA	405
410632	1933	1952	TGGTGGCAGTGGACACGGGT	3-14-3	NA	405
410561	1933	1952	TGGTGGCAGTGGACACGGGT	5-10-5	NA	405
410774	1936	1955	TGTTGGTGGCAGTGGACACG	5-10-5	47.8	406

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
410775	1962	1981	AGCTGCAGCCTGTGAGGACG	5-10-5	36.3	407
410776	1990	2009	GTGCCAAGGTCCTCCACCTC	5-10-5	77.3	408
410777	2010	2029	TCAGCACAGGCGGCTTGTGG	5-10-5	40.0	409
410778	2040	2059	CCACGCACTGGTTGGGCTGA	5-10-5	52.7	410
399908	2100	2119	CTTTGCATTCCAGACCTGGG	3-14-3	74.9	60
410713	2100	2119	CTTTGCATTCCAGACCTGGG	2-13-5	84.9	60
395186	2100	2119	CTTTGCATTCCAGACCTGGG	5-10-5	93.7	60
410714	2101	2120	ACTTTGCATTCCAGACCTGG	2-13-5	82.4	411
410633	2101	2120	ACTTTGCATTCCAGACCTGG	3-14-3	83.8	411
410562	2101	2120	ACTTTGCATTCCAGACCTGG	5-10-5	87.3	411
410715	2102	2121	GACTTTGCATTCCAGACCTG	2-13-5	80.5	412
410634	2102	2121	GACTTTGCATTCCAGACCTG	3-14-3	81.8	412
405996	2102	2121	GACTTTGCATTCCAGACCTG	5-10-5	91.0	412
410563	2103	2122	TGACTTTGCATTCCAGACCT	5-10-5	75.4	413
410635	2103	2122	TGACTTTGCATTCCAGACCT	3-14-3	75.9	413
410716	2103	2122	TGACTTTGCATTCCAGACCT	2-13-5	88.3	413
410636	2104	2123	TTGACTTTGCATTCCAGACC	3-14-3	61.3	414
410564	2104	2123	TTGACTTTGCATTCCAGACC	5-10-5	71.3	414
410717	2104	2123	TTGACTTTGCATTCCAGACC	2-13-5	76.7	414
410718	2105	2124	CTTGACTTTGCATTCCAGAC	2-13-5	55.8	61
399973	2105	2124	CTTGACTTTGCATTCCAGAC	3-14-3	82.1	61
399817	2105	2124	CTTGACTTTGCATTCCAGAC	5-10-5	93.6	61
405997	2107	2126	TCCTTGACTTTGCATTCCAG	5-10-5	95.6	415
410779	2120	2139	CGGGATTCCATGCTCCTTGA	5-10-5	79.7	416
410780	2150	2169	GCAGGCCACGGTCACCTGCT	5-10-5	60.9	417
410781	2187	2206	GGAGGGCACTGCAGCCAGTC	5-10-5	66.0	418
410719	2305	2324	CAGATGGCAACGGCTGTCAC	2-13-5	61.0	419
410637	2305	2324	CAGATGGCAACGGCTGTCAC	3-14-3	66.0	419
410565	2305	2324	CAGATGGCAACGGCTGTCAC	5-10-5	71.6	419
410638	2306	2325	GCAGATGGCAACGGCTGTCA	3-14-3	71.9	420
410720	2306	2325	GCAGATGGCAACGGCTGTCA	2-13-5	75.1	420
410566	2306	2325	GCAGATGGCAACGGCTGTCA	5-10-5	77.7	420
410639	2307	2326	AGCAGATGGCAACGGCTGTC	3-14-3	67.7	421
410721	2307	2326	AGCAGATGGCAACGGCTGTC	2-13-5	68.8	421
410567	2307	2326	AGCAGATGGCAACGGCTGTC	5-10-5	72.1	421
410568	2308	2327	CAGCAGATGGCAACGGCTGT	5-10-5	54.2	422
410640	2308	2327	CAGCAGATGGCAACGGCTGT	3-14-3	57.7	422
410722	2308	2327	CAGCAGATGGCAACGGCTGT	2-13-5	59.2	422
410569	2309	2328	GCAGCAGATGGCAACGGCTG	5-10-5	57.7	423
410641	2309	2328	GCAGCAGATGGCAACGGCTG	3-14-3	66.1	423
410723	2309	2328	GCAGCAGATGGCAACGGCTG	2-13-5	81.1	423
399909	2310	2329	GGCAGCAGATGGCAACGGCT	3-14-3	69.9	62
410724	2310	2329	GGCAGCAGATGGCAACGGCT	2-13-5	87.4	62
395187	2310	2329	GGCAGCAGATGGCAACGGCT	5-10-5	92.7	62
410642	2311	2330	CGGCAGCAGATGGCAACGGC	3-14-3	70.4	424
410725	2311	2330	CGGCAGCAGATGGCAACGGC	2-13-5	75.6	424
410570	2311	2330	CGGCAGCAGATGGCAACGGC	5-10-5	78.3	424
410571	2312	2331	CCGGCAGCAGATGGCAACGG	5-10-5	52.8	425
410643	2312	2331	CCGGCAGCAGATGGCAACGG	3-14-3	59.8	425
410726	2312	2331	CCGGCAGCAGATGGCAACGG	2-13-5	69.8	425
410644	2313	2332	TCCGGCAGCAGATGGCAACG	3-14-3	59.0	426
410727	2313	2332	TCCGGCAGCAGATGGCAACG	2-13-5	68.3	426
405998	2313	2332	TCCGGCAGCAGATGGCAACG	5-10-5	75.6	426

Isis No.	5' Target Site to SEQ ID NO: 1	3' Target Site to SEQ ID NO: 1	Sequence 5'-3'	Motif	% inhibition	SEQ ID NO
410572	2314	2333	CTCCGGCAGCAGATGGCAAC	5-10-5	40.9	427
410728	2314	2333	CTCCGGCAGCAGATGGCAAC	2-13-5	56.4	427
410645	2314	2333	CTCCGGCAGCAGATGGCAAC	3-14-3	70.2	427
410729	2315	2334	GCTCCGGCAGCAGATGGCAA	2-13-5	67.7	428
410573	2315	2334	GCTCCGGCAGCAGATGGCAA	5-10-5	71.8	428
410646	2315	2334	GCTCCGGCAGCAGATGGCAA	3-14-3	72.8	428
410782	2325	2344	CCAGGTGCCGGCTCCGGCAG	5-10-5	43.2	429
410783	2335	2354	GAGGCCTGCGCCAGGTGCCG	5-10-5	63.7	430
399819	2509	2528	CCCACTCAAGGGCCAGGCCA	5-10-5	93.4	65
399912	2597	2616	ATGCCCCACAGTGAGGGAGG	3-14-3	84.3	66
405893	2828	2847	ATGAGGGCCATCAGCACCTT	5-10-5	93.9	431
405894	2829	2848	GATGAGGGCCATCAGCACCT	5-10-5	93.9	432
405895	2830	2849	AGATGAGGGCCATCAGCACC	5-10-5	91.8	433
405896	2831	2850	GAGATGAGGGCCATCAGCAC	5-10-5	88.5	434
395194	2832	2851	GGAGATGAGGGCCATCAGCA	5-10-5	90.0	69
399916	2832	2851	GGAGATGAGGGCCATCAGCA	3-14-3	94.5	69
405897	2833	2852	TGGAGATGAGGGCCATCAGC	5-10-5	85.1	435
405898	2834	2853	CTGGAGATGAGGGCCATCAG	5-10-5	86.9	436
405899	2835	2854	GCTGGAGATGAGGGCCATCA	5-10-5	91.5	437
405900	2836	2855	AGCTGGAGATGAGGGCCATC	5-10-5	83.7	438
405901	2902	2921	GCTAGATGCCATCCAGAAAG	5-10-5	88.4	439
405902	2903	2922	GGCTAGATGCCATCCAGAAA	5-10-5	89.3	440
405903	2904	2923	TGGCTAGATGCCATCCAGAA	5-10-5	92.6	441
405904	2905	2924	CTGGCTAGATGCCATCCAGA	5-10-5	90.4	442
399821	2906	2925	TCTGGCTAGATGCCATCCAG	5-10-5	91.7	71
405905	2907	2926	CTCTGGCTAGATGCCATCCA	5-10-5	90.7	443
405906	2908	2927	CCTCTGGCTAGATGCCATCC	5-10-5	93.3	444
405907	2909	2928	GCCTCTGGCTAGATGCCATC	5-10-5	90.2	445
405908	2910	2929	AGCCTCTGGCTAGATGCCAT	5-10-5	83.3	446
399978	2988	3007	AGCCTGGCATAGAGCAGAGT	3-14-3	96.4	73

Antisense oligonucleotides that exhibited less than 30% inhibition of PCSK9 mRNA levels were marked with "NA".

Antisense oligonucleotides with the following ISIS Nos exhibited at least 80% inhibition of PCSK9 mRNA levels: 395152, 395153, 395155, 395158, 395163, 395165, 395166, 395168, 395173, 395181, 395183, 395185, 395186, 395187, 395194, 399798, 399801, 399804, 399806, 399817, 399819, 399821, 399877, 399879, 399887, 399888, 399891, 399895, 399900, 399904, 399905, 399906, 399907, 399912, 399916, 399954, 399960, 399962, 399967, 399968, 399969, 399973, 399978, 405861, 405862, 405863, 405864, 405865, 405866, 405869, 405870, 405871, 405872, 405873, 405874, 405875, 405876, 405877, 405878, 405879, 405880, 405881, 405882, 405883, 405884, 405889, 405890, 405891, 405893, 405894, 405895, 405896, 405897, 405898, 405899, 405900, 405901, 405902, 405903, 405904, 405905, 405906, 405907, 405908, 405909, 405910, 405911, 405913, 405914, 405915, 405916, 405920, 405921, 405922, 405923, 405924,

405925, 405926, 405927, 405928, 405929, 405930, 405931, 405932, 405934, 405935, 405936,
405940, 405941, 405943, 405944, 405949, 405952, 405953, 405954, 405955, 405956, 405958,
405959, 405960, 405961, 405973, 405974, 405976, 405977, 405978, 405979, 405980, 405982,
405984, 405987, 405988, 405989, 405990, 405991, 405992, 405993, 405994, 405995, 405996,
5 405997, 406002, 406003, 406005, 406008, 406009, 406014, 406016, 406020, 406023, 406026,
406028, 406029, 406030, 406031, 406032, 406033, 406035, 406036, 406038, 406039, 406040,
406041, 406042, 406043, 406044, 406045, 410530, 410556, 410558, 410562, 410578, 410583,
410589, 410590, 410591, 410592, 410593, 410595, 410609, 410611, 410616, 410617, 410618,
410619, 410624, 410628, 410633, 410634, 410647, 410648, 410650, 410652, 410658, 410664,
10 410666, 410667, 410668, 410671, 410677, 410686, 410688, 410689, 410693, 410695, 410696,
410697, 410698, 410700, 410701, 410702, 410713, 410714, 410715, 410716, 410723, 410724,
410730, 410751, 410754, 410757, 410759, 410760, 410769, and 410772. The target segments to
which these antisense oligonucleotides are targeted are active target segments. The target regions
to which these antisense oligonucleotides are targeted are active target regions.

15 ISIS Nos 395152, 395155, 395158, 395165, 395166, 395168, 395173, 395181, 395183,
395185, 395186, 395187, 395194, 399801, 399817, 399819, 399821, 399877, 399879, 399887,
399888, 399891, 399900, 399904, 399905, 399906, 399907, 399916, 399954, 399962, 399969,
399978, 405861, 405862, 405864, 405869, 405871, 405872, 405873, 405874, 405875, 405876,
405878, 405879, 405880, 405881, 405882, 405883, 405884, 405890, 405891, 405893, 405894,
20 405895, 405896, 405897, 405898, 405899, 405901, 405902, 405903, 405904, 405905, 405906,
405907, 405910, 405911, 405913, 405914, 405915, 405916, 405920, 405921, 405922, 405923,
405924, 405925, 405926, 405927, 405928, 405929, 405930, 405931, 405932, 405934, 405935,
405936, 405941, 405952, 405953, 405954, 405955, 405956, 405959, 405960, 405961, 405974,
405977, 405978, 405979, 405980, 405982, 405987, 405988, 405989, 405990, 405991, 405992,
25 405993, 405994, 405995, 405996, 405997, 406008, 406009, 406014, 406016, 406023, 406028,
406029, 406030, 406031, 406032, 406033, 406035, 406038, 406039, 406040, 406041, 406042,
406043, 406044, 406045, 410558, 410562, 410583, 410591, 410592, 410593, 410611, 410617,
410618, 410628, 410647, 410650, 410668, 410677, 410688, 410695, 410696, 410697, 410698,
410702, 410716, 410724, 410730, 410757, 410760, and 410772 each exhibited at least 85%
30 inhibition of PCSK9 mRNA levels.

ISIS Nos 395152, 395155, 395158, 395165, 395166, 395168, 395173, 395183, 395185,
395186, 395187, 395194, 399801, 399817, 399819, 399821, 399877, 399879, 399887, 399888,
399891, 399900, 399904, 399905, 399906, 399907, 399916, 399954, 399969, 399978, 405861,

DEMANDE OU BREVET VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET COMPREND PLUS D'UN TOME.

CECI EST LE TOME 1 DE 2
CONTENANT LES PAGES 1 À 251

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JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE THAN ONE VOLUME

THIS IS VOLUME 1 OF 2
CONTAINING PAGES 1 TO 251

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NOTE POUR LE TOME / VOLUME NOTE:

CLAIMS

What is claimed is:

1. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked
5 nucleosides and having a nucleobase sequence comprising a portion which consists of at least 8
contiguous nucleobases complementary to an equal-length portion of 294-317, 406-440, 406-
526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-
639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-
743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-
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15 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499,
1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579,
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20 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947,
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1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354,
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2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007,
25 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569 of SEQ ID NO: 1, and wherein the
nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID
NO: 1.
2. The compound of claim 1, wherein the modified oligonucleotide is at least 95%
30 complementary to SEQ ID NO: 1.
3. The compound of claim 2, wherein the modified oligonucleotide is 100%
complementary to SEQ ID NO: 1.

4. The compound of claim 1, wherein the modified oligonucleotide hybridizes exclusively within 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 5 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-10 1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-15 1706, 1735-1761, 1735-1765, 1740-1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879, 1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-20 2334, 2410-2434, 2504-2528, 2509-2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569 of SEQ ID NO: 1, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

25 5. The compound of claim 2, wherein the modified oligonucleotide hybridizes exclusively within 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 30 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-

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2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or
3543-3569 of SEQ ID NO: 1, and wherein the nucleobase sequence of the modified
oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

15 6. The compound of claim 3, wherein the modified oligonucleotide hybridizes
exclusively within 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619,
591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636,
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2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569 of SEQ ID NO: 1, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

5 7. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion of at least 8 contiguous nucleobases fully complementary to an equal length portion of nucleobases 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 10 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-15 1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761, 1735-1765, 1740-20 1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879, 1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434, 2504-2528, 2509-25 2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569 of SEQ ID NO: 1, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

30 8. The compound of claim 7, wherein the modified oligonucleotide is at least 95% complementary to SEQ ID NO: 1.

9. The compound of claim 7, wherein the modified oligonucleotide is 100% complementary to SEQ ID NO: 1.

10. The compound of claim 7, wherein the modified oligonucleotide hybridizes
5 exclusively within 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016,
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25 oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

11. The compound of claim 8, wherein the modified oligonucleotide hybridizes
exclusively within 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636,
30 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-

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10 1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-
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2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or
3543-3569 of SEQ ID NO: 1, and wherein the nucleobase sequence of the modified
15 oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

12. The compound of claim 9, wherein the modified oligonucleotide hybridizes
exclusively within 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619,
591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636,
20 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942,
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1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-
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5 oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

13. The compound of claim 1, consisting of a single-stranded modified oligonucleotide.

10 14. The compound of claim 13, wherein at least one internucleoside linkage is a phosphorothioate internucleoside linkage.

15 15. The compound of claim 1, wherein each internucleoside linkage is a phosphorothioate internucleoside linkage.

16. The compound of claim 15, wherein at least one nucleoside comprises a modified sugar.

20 17. The compound of claim 16, wherein at least one modified sugar is a bicyclic sugar.

18. The compound of claim 17, wherein at least one modified sugar comprises a 2'-O-methoxyethyl.

25 19. The compound of claim 15, wherein at least one nucleoside comprises a modified nucleobase.

30 20. The compound of claim 19, wherein the modified nucleobase is a 5-methylcytosine.

21. The compound of claim 1, wherein the modified oligonucleotide comprises:
a gap segment consisting of linked deoxynucleosides;
a 5' wing segment consisting of linked nucleosides; and

a 3' wing segment consisting of linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment; and wherein each nucleoside of each wing segment comprises a modified sugar.

5 22. The compound of claim 21, wherein the modified oligonucleotide comprises:
a gap segment consisting of ten linked deoxynucleosides;
a 5' wing segment consisting of five linked nucleosides; and
a 3' wing segment consisting of five linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing
10 segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar;
and wherein each internucleoside linkage is a phosphorothioate linkage.

 23. The antisense compound of claim 21, wherein the antisense compound is a
chimeric oligonucleotide consisting of:
15 a gap segment consisting of from 10 to 18 linked 2'-deoxynucleosides;
a 5' wing segment consisting of from 1 to 5 linked nucleosides; and
a 3' wing segment consisting of from 1 to 5 linked nucleosides;
wherein each nucleoside of the 5' wing segment is a sugar-modified nucleoside, each nucleoside
of the 3' wing segment is a sugar-modified nucleoside, and each internucleoside linkage is a
20 phosphorothioate internucleoside linkage.

 24. The compound of claim 2, wherein the modified oligonucleotide consists of 20
linked nucleosides.

25 25. A composition comprising a modified oligonucleotide consisting of 12 to 30
linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous
nucleobases of a nucleobase sequence selected from among the nucleobase sequences recited in
294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743,
595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665,
30 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899,
860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991,
970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024,
997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029,

1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123,
1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354,
1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491,
1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558,
5 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592,
1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761,
1735-1765, 1740-1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879,
1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946,
1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952,
10 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126,
2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434,
2504-2528, 2509-2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929,
2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, and 3543-3569 of SEQ
ID NO: 1, or a salt thereof and a pharmaceutically acceptable carrier or diluent.

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26. The composition of claim 25, wherein the modified oligonucleotide is a single-stranded oligonucleotide.

20 27. The composition of claim 25, wherein the modified oligonucleotide consists of 20 linked nucleosides.

28. A method comprising administering to an animal a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion which consists of at least 8 contiguous nucleobases complementary to an equal-length portion of
25 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024,
30 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491,

1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558,
1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592,
1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761,
1735-1765, 1740-1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879,
5 1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946,
1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952,
1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126,
2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434,
2504-2528, 2509-2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929,
10 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569 of SEQ ID
NO: 1, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90%
complementary to SEQ ID NO: 1.

29. The method of claim 28, wherein the animal is a human.

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30. The method of claim 29, wherein administering the compound slows progression
and/or ameliorates hypercholesterolemia, acute coronary syndrome, polygenic
hypercholesterolemia, mixed dyslipidemia, coronary heart disease, early onset coronary heart
disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic
20 steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia,
hyperlipidemia, metabolic syndrome, atherosclerosis, or improves cardiovascular outcome, or
any combination thereof.

31. The method of claim 28 comprising co-administering the compound and at least
25 one additional therapy.

32. The method of claim 31, wherein the compound and additional therapy are
administered concomitantly.

30 33. The method of claim 31, wherein the compound and the additional therapy are
administered in the same formulation.

34. The method of claim 31, wherein the additional therapy is a lipid lowering therapy.

35. The method of claim 34, wherein the lipid lowering therapy is a therapeutic lifestyle change, HMG-CoA reductase inhibitor, cholesterol absorption inhibitor, MTP inhibitor, antisense compound targeted to ApoB, or any combination thereof.

36. The method of claim 35, wherein the HMG-CoA reductase inhibitor is atorvastatin, rosuvastatin, or simvastatin.

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37. The method of claim 35, wherein the cholesterol absorption inhibitor is ezetimibe.

38. The method of claims 35, wherein the additional lipid lowering therapy comprises an HMG-CoA reductase inhibitor that is simivastatin, and a cholesterol absorption inhibitor that is ezetimibe.

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39. The method of claim 35, wherein the antisense compound is ISIS 301012.

40. The method of claim 28, wherein the administering is parenteral administration.

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41. The method of claim 40, wherein the parenteral administration comprises subcutaneous or intravenous administration.

42. The method of claim 28, wherein the administering comprises oral administration.

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43. A method comprising administering to a human with hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, coronary heart disease, acute coronary syndrome, early onset coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, or elevated non-HDL cholesterol, a therapeutically effective amount of a composition comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase

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sequence comprising at least 8 contiguous nucleobases complementary to an equal-length portion of 294-317, 406-440, 406-526, 410-436, 410-499, 446-526, 545-581, 591-619, 591-704, 591-743, 595-622, 600-626, 600-639, 600-670, 601-628, 602-628, 603-630, 611-636, 620-647, 638-665, 648-674, 657-684, 705-743, 782-810, 821-859, 835-859, 835-917, 835-942, 860-887, 860-899, 860-909, 860-917, 869-895, 878-905, 888-909, 923-952, 960-1034, 960-1173, 960-986, 967-991, 970-1023, 970-1064, 970-1117, 970-996, 977-1004, 985-1011, 989-1016, 992-1019, 997-1024, 997-1024, 998-1025, 999-1026, 1000-1027, 1001-1028, 1002-1029, 1003-1029, 1004-1029, 1005-1029, 1006-1029, 1007-1034, 1036-1061, 1045-1072, 1076-1096, 1088-1115, 1098-1123, 1200-1251, 1210-1237, 1219-1245, 1228-1251, 1273-1444, 1295-1316, 1318-1345, 1328-1354, 1337-1361, 1344-1371, 1354-1377, 1380-1406, 1389-1416, 1400-1426, 1409-1434, 1465-1491, 1465-1602, 1474-1499, 1482-1519, 1513-1540, 1523-1549, 1526-1602, 1526-1624, 1532-1558, 1541-1568, 1552-1579, 1560-1587, 1561-1589, 1564-1591, 1565-1592, 1566-1592, 1567-1592, 1570-1597, 1571-1599, 1605-1706, 1628-1706, 1640-1666, 1672-1698, 1681-1706, 1735-1761, 1735-1765, 1740-1765, 1849-1876, 1849-1879, 1850-1877, 1851-1877, 1852-1878, 1852-1879, 1853-1879, 1854-1879, 1905-1955, 1915-1942, 1916-1943, 1917-1944, 1918-1945, 1919-1946, 1920-1939, 1920-1947, 1921-1948, 1922-1949, 1923-1950, 1924-1951, 1925-1952, 1926-1952, 1927-1952, 1928-1955, 1962-2059, 2040-2126, 2100-2126, 2100-2139, 2100-2206, 2101-2126, 2305-2332, 2305-2354, 2306-2333, 2307-2334, 2308-2334, 2309-2334, 2310-2334, 2410-2434, 2504-2528, 2509-2528, 2582-2625, 2606-2668, 2828-2855, 2832-2851, 2900-2927, 2900-2929, 2902-2927, 2983-3007, 2983-3013, 3227-3252, 3227-3456, 3472-3496, or 3543-3569 of SEQ ID NO: 1, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

44. The method of claim 28, wherein the animal has hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, a history of coronary heart disease, coronary heart disease, acute coronary syndrome, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, elevated IDL-cholesterol, or elevated non-HDL cholesterol.

45. The method of claim 44, wherein the elevated LDL-cholesterol level is above a target level of at least about 100 mg/dL, 130 mg/dL, 160 mg/dL, or 190 mg/dL.

46. The method of claim 44, wherein the administering the compound to the animal
5 reduces LDL-cholesterol levels.

47. The method of claim 46, wherein administering the compound results in an LDL-cholesterol level below a target level of at least about 190 mg/dL, 160 mg/dL, 130 mg/dL, 100 mg/dL, 70 mg/dL, or 50 mg/dL.

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48. The method of claim 44, wherein the one or more risk factors is selected from age, smoking, hypertension, low HDL-cholesterol, and a family history of early coronary heart disease.

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49. The method of claim 44, wherein the animal failed to meet the LDL-cholesterol target level on lipid-lowering therapy, did not comply with the recommend therapy, experienced side effects of therapy, or any combination thereof.

50. The method of claim 49, wherein the lipid-lowering therapy is a statin.

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51. The method of claim 49, wherein the lipid-lowering therapy is ezetimibe.

52. The method of claim 28, wherein administering results in a reduction of ApoB, LDL-cholesterol, VLDL-cholesterol, Lp(a), small LDL-particle, small VLDL-particle, non-HDL-
25 cholesterol, liver triglyceride level, serum triglycerides, serum phospholipids, or any combination thereof.

53. The method of claim 52, wherein the ApoB reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least
30 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

54. The method of claim 53, wherein the ApoB reduction is between 10% and 80%, between 20% and 70%, between 30% and 60%, or between 30% and 70%.

55. The method of claim 52, wherein the LDL-cholesterol reduction is at least 10%, at
5 least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

56. The method of claim 52, wherein the VLDL-cholesterol reduction is at least 10%,
10 at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

57. The method of claim 52, wherein the Lp(a) reduction is at least 10%, at least 15%,
15 at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

58. The method of claim 52, wherein the small LDL-particle reduction is at least 10%,
20 at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

59. The method of claim 52, wherein the small VLDL-particle reduction is at least
25 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

60. The method of claim 52, wherein the non-HDL-cholesterol reduction is at least
30 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

61. The method of claim 52, wherein the liver triglyceride level reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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62. The method of claim 52, wherein the administering of the pharmaceutical composition results in a serum triglyceride reduction of at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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63. The method of claim 52, wherein the administering of the pharmaceutical composition results in a serum phospholipid reduction of at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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64. The method of claims 52 or 53, wherein the serum phospholipid is serum oxidized phospholipid.

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65. The method of claim 28, wherein administering results in reduced coronary heart disease risk, or slows, stops or prevents the progression of atherosclerosis, or any combination thereof.

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66. The method of claim 28, wherein administering results in improved cardiovascular outcome of the human.

67. The method of claim 66, wherein the improved cardiovascular outcome is improved carotid intimal media thickness, improved atheroma thickness, increased HDL-cholesterol, or any combination thereof.

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68. The method of claim 28, wherein administering ameliorates hepatic steatosis, results in lipid lowering, improves LDL/HDL ration, or any combination thereof.

69. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion which consists of at least 8 contiguous nucleobases complementary to an equal-length portion of 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973, 14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321, 15294-15321, 15295-15322, 15296-15323, 15297-15323, 15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804, 20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748, 20722-20749, 20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-22229, 22203-22230, 22204-22231, 22205-22232, 22206-22233, 22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926, 25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-26141, 26115-26141, 26116-26141, 26117-26141, 26117-26475, 26118-

26141, 26120-26141, 26132-26151, 26142-26161, 26217-26241, 26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 2.

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70. The compound of claim 69, wherein the modified oligonucleotide is at least 95% complementary to SEQ ID NO: 2.

71. The compound of claim 70, wherein the modified oligonucleotide is 100% complementary to SEQ ID NO: 2.

72. The compound of claim 69, wherein the modified oligonucleotide hybridizes exclusively within 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973, 14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321, 15294-15321, 15295-15322, 15296-15323, 15297-15323, 15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804, 20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748, 20722-20749, 20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-

21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211,
21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-
22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163,
22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-
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26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and
wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary
to SEQ ID NO: 2.

15 73. The compound of claim 70, wherein the modified oligonucleotide hybridizes
exclusively within 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-
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26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and
15 wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary
to SEQ ID NO: 2.

74. The compound of claim 71, wherein the modified oligonucleotide hybridizes
exclusively within 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-
20 2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-
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15 26141, 26117-26141, 26117-26475, 26118-26141, 26120-26141, 26132-26151, 26142-26161,
26217-26241, 26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-
26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and
wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary
to SEQ ID NO: 2.

20

75. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked
nucleosides and having a nucleobase sequence comprising a portion of at least 8 contiguous
nucleobases fully complementary to an equal length portion of nucleobases 2274-2400, 2274-
2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-
25 5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-
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22205-22232, 22206-22233, 22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-
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26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263,
27279-27303, or 27350-27376 of SEQ ID NO: 2, and wherein the nucleobase sequence of the
modified oligonucleotide is at least 90% complementary to SEQ ID NO: 2.

25 76. The compound of claim 75, wherein the modified oligonucleotide is at least 95%
complementary to SEQ ID NO: 2.

 77. The compound of claim 75, wherein the modified oligonucleotide is 100%
complementary to SEQ ID NO: 2.

30

 78. The compound of claim 75, wherein the modified oligonucleotide hybridizes
exclusively within 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-
2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-

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79. The compound of claim 76, wherein the modified oligonucleotide hybridizes exclusively within 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973, 14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321, 15294-15321, 15295-15322, 15296-15323, 15297-15323, 15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804, 20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748, 20722-20749, 20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-22229, 22203-22230, 22204-22231, 22205-22232, 22206-22233, 22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926, 25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-26141, 26115-26141, 26116-26141, 26117-26141, 26117-26475, 26118-26141, 26120-26141, 26132-26151, 26142-26161, 26217-26241, 26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and

wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 2.

80. The compound of claim 77, wherein the modified oligonucleotide hybridizes
5 exclusively within 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-
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19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-
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20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-
20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748,
25 20722-20749, 20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-
21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211,
21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-
22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163,
22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-
30 22229, 22203-22230, 22204-22231, 22205-22232, 22206-22233, 22207-22234, 22208-22235,
22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-22239, 22292-22311, 23985-
24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926, 25413-25432, 25994-26013,
26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-26141, 26115-26141, 26116-

26141, 26117-26141, 26117-26475, 26118-26141, 26120-26141, 26132-26151, 26142-26161, 26217-26241, 26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 2.

81. The compound of claim 69, consisting of a single-stranded modified oligonucleotide.

10 82. The compound of claim 81, wherein at least one internucleoside linkage is a phosphorothioate internucleoside linkage.

83. The compound of claim 69, wherein each internucleoside linkage is a phosphorothioate internucleoside linkage.

15

84. The compound of claim 83, wherein at least one nucleoside comprises a modified sugar.

20 85. The compound of claim 84, wherein at least one modified sugar is a bicyclic sugar.

86. The compound of claim 85, wherein at least one modified sugar comprises a 2'-O-methoxyethyl.

25 87. The compound of claim 83, wherein at least one nucleoside comprises a modified nucleobase.

88. The compound of claim 87, wherein the modified nucleobase is a 5-methylcytosine.

30

89. The compound of claim 69, wherein the modified oligonucleotide comprises:
a gap segment consisting of linked deoxynucleosides;
a 5' wing segment consisting of linked nucleosides; and

a 3' wing segment consisting of linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment; and wherein each nucleoside of each wing segment comprises a modified sugar.

5 90. The compound of claim 89, wherein the modified oligonucleotide comprises:
a gap segment consisting of ten linked deoxynucleosides;
a 5' wing segment consisting of five linked nucleosides; and
a 3' wing segment consisting of five linked nucleosides;
10 wherein the gap segment is positioned between the 5' wing segment and the 3' wing
segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar;
and wherein each internucleoside linkage is a phosphorothioate linkage.

 91. The antisense compound of claim 89, wherein the antisense compound is a
chimeric oligonucleotide consisting of:
15 a gap segment consisting of from 10 to 18 linked 2'-deoxynucleosides;
a 5' wing segment consisting of from 1 to 5 linked nucleosides; and
a 3' wing segment consisting of from 1 to 5 linked nucleosides;
wherein each nucleoside of the 5' wing segment is a sugar-modified nucleoside, each nucleoside
of the 3' wing segment is a sugar-modified nucleoside, and each internucleoside linkage is a
20 phosphorothioate internucleoside linkage.

 92. The compound of claim 70, wherein the modified oligonucleotide consists of 20
linked nucleosides.

25 93. A composition comprising a modified oligonucleotide consisting of 12 to 30
linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous
nucleobases of a nucleobase sequence selected from among the nucleobase sequences recited in
2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638,
3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518,
30 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565,
6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621,
6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168,
9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491,

12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973, 5 14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321, 15294-15321, 15295-15322, 15296-15323, 15297-15323, 15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-10 18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804, 20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748, 20722-20749, 15 20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-22229, 22203-20 22230, 22204-22231, 22205-22232, 22206-22233, 22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926, 25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-26141, 26115-26141, 26116-26141, 26117-26141, 26117-26475, 26118-26141, 26120-26141, 26132-26151, 26142-26161, 26217-26241, 25 26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-26820, 27034-27263, 27279-27303, and 27350-27376 of SEQ ID NO: 2, or a salt thereof, and a pharmaceutically acceptable carrier or diluent.

94. The composition of claim 93, wherein the modified oligonucleotide is a single-30 stranded oligonucleotide.

95. The composition of claim 93, wherein the modified oligonucleotide consists of 20 linked nucleosides.

96. A method comprising administering to an animal a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion which consists of at least 8 contiguous nucleobases complementary to an equal-length portion of

5 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-9168,

10 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491, 12715-12734, 12928-12947, 13681-13700, 13746-13779, 13816-13847, 13903-13945, 13977-14141, 14179-14198, 14267-14286, 14397-14423, 14441-14460, 14494-14513, 14494-14543, 14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973,

15 14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-15319, 15293-15320, 15294-15321, 15294-15321, 15295-15322, 15296-15323, 15297-15323, 15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580, 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-

20 18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009, 19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-20207, 20624-20650, 20624-20759, 20629-20804, 20633-20660, 20635-20781, 20643-20662, 20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-20725, 20709-20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748, 20722-20749,

25 20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-21152, 21091-21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211, 21481-21500, 21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-22311, 22133-22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163, 22138-22163, 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-22229, 22203-

30 22230, 22204-22231, 22205-22232, 22206-22233, 22207-22234, 22208-22235, 22209-22236, 22210-22236, 22210-22239, 22211-22236, 22212-22239, 22292-22311, 23985-24054, 24035-24134, 24095-24121, 24858-24877, 24907-24926, 25413-25432, 25994-26013, 26112-26139, 26112-26161, 26112-27303, 26113-26140, 26114-26141, 26115-26141, 26116-26141, 26117-

26141, 26117-26475, 26118-26141, 26120-26141, 26132-26151, 26142-26161, 26217-26241,
26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-
26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and wherein the
nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID
5 NO: 2.

97. The method of claim 96, wherein the animal is a human.

98. The method of claim 97, wherein administering the compound slows progression
10 and/or ameliorates hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia,
coronary heart disease, acute coronary syndrome, early onset coronary heart disease, type II
diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-
alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia,
metabolic syndrome, atherosclerosis, or improves cardiovascular outcome, or any combination
15 thereof.

99. The method of claim 96, comprising co-administering the compound and at least
one additional therapy.

100. The method of claim 99, wherein the compound and additional therapy are
20 administered concomitantly.

101. The method of claim 99, wherein the compound and the additional therapy are
administered in the same formulation.

25

102. The method of claim 99, wherein the additional therapy is a lipid lowering
therapy.

103. The method of claim 102, wherein the lipid lowering therapy is a therapeutic
30 lifestyle change, HMG-CoA reductase inhibitor, cholesterol absorption inhibitor, MTP inhibitor,
antisense compound targeted to ApoB or any combination thereof.

104. The method of claim 103, wherein the HMG-CoA reductase inhibitor is atorvastatin, rosuvastatin, or simvastatin.

5 105. The method of claim 103, wherein the cholesterol absorption inhibitor is ezetimibe.

106. The method of claims 103, wherein the additional lipid lowering therapy comprises an HMG-CoA reductase inhibitor that is simivastatin and a cholesterol absorption inhibitor that is ezetimibe.

10

107. The method of claim 103, wherein the antisense compound is ISIS 301012.

108. The method of claim 96, wherein the administering is parenteral administration.

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109. The method of claim 108, wherein the parenteral administration comprises subcutaneous or intravenous administration.

110. The method of claim 96, wherein the administering comprises oral administration.

20

111. A method comprising administering to a human with hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, coronary heart disease, acute coronary syndrome, early onset coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, or elevated non-HDL cholesterol, a therapeutically effective amount of a composition comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous nucleobases complementary to an equal-length portion of 2274-2400, 2274-2575, 2433-2570, 2433-2579, 2549-2575, 2552-2579, 2585-2638, 2605-
2638, 3056-3075, 4150-5159, 4306-4325, 5590-5618, 5667-5686, 6444-6463, 6482-6518, 6492-
25 6518, 6528-6555, 6528-6623, 6534-6561, 6535-6562, 6536-6563, 6537-6563, 6538-6565, 6539-6565, 6540-6567, 6541-6567, 6542-6569, 6546-6573, 6557-6584, 6575-6602, 6585-6611, 6594-6621, 6596-6623, 6652-6671, 7099-7118, 7556-7584, 8836-8855, 8948-8967, 9099-9118, 9099-

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9168, 9130-9168, 9207-9233, 9207-9235, 9209-9235, 10252-10271, 10633-10652, 11308-11491,
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14524-14543, 14601-14650, 14670-14700, 14675-14700, 14801-14828, 14877-14912, 14877-
5 14915, 14877-14973, 14916-14943, 14916-14973, 14925-14951, 14934-14963, 14946-14973,
14979-14998, 15254-15280, 15254-15328, 15264-15290, 15279-15305, 15291-15318, 15292-
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15298-15323, 15299-15323, 15300-15323, 15301-15328, 15330-15355, 15330-15490, 15339-
15366, 15358-15490, 16134-16153, 16668-16687, 17267-17286, 18377-18427, 18561-18580,
10 18591-18618, 18591-18646, 18591-18668, 18695-18746, 18705-18730, 18709-18736, 18719-
18746, 19203-20080, 19931-19952, 19954-19981, 19964-19990, 19973-19999, 19982-20009,
19992-20016, 20016-20042, 20025-20052, 20036-20062, 20045-20070, 20100-20119, 20188-
20207, 20624-20650, 20624-20759, 20629-20804, 20633-20660, 20635-20781, 20643-20662,
20657-20676, 20670-20697, 20680-20706, 20683-20781, 20689-20715, 20698-20725, 20709-
15 20736, 20717-20744, 20718-20745, 20719-20746, 20720-20747, 20721-20748, 20722-20749,
20727-20752, 20735-20759, 20762-21014, 20785-21014, 21082-21107, 21082-21152, 21091-
21114, 21118-21144, 21127-21152, 21181-21209, 21181-21211, 21183-21211, 21481-21500,
21589-21608, 21692-21719, 22000-22227, 22096-22115, 22096-22223, 22096-22311, 22133-
22160, 22133-22163, 22134-22161, 22135-22162, 22136-22163, 22137-22163, 22138-22163,
20 22189-22239, 22199-22226, 22199-22227, 22200-22227, 22201-22228, 22202-22229, 22203-
22230, 22204-22231, 22205-22232, 22206-22233, 22207-22234, 22208-22235, 22209-22236,
22210-22236, 22210-22239, 22211-22236, 22212-22239, 22292-22311, 23985-24054, 24035-
24134, 24095-24121, 24858-24877, 24907-24926, 25413-25432, 25994-26013, 26112-26139,
26112-26161, 26112-27303, 26113-26140, 26114-26141, 26115-26141, 26116-26141, 26117-
25 26141, 26117-26475, 26118-26141, 26120-26141, 26132-26151, 26142-26161, 26217-26241,
26311-26335, 26389-26432, 26456-26576, 26635-26662, 26707-26734, 26707-26736, 26790-
26820, 27034-27263, 27279-27303, or 27350-27376 of SEQ ID NO: 2, and wherein the
nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID
NO: 2.

30

112. The method of claim 96, wherein the animal has hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, a history of coronary heart disease, coronary heart disease, acute coronary syndrome, early onset coronary heart disease, one or more risk factors for

coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, elevated IDL-
5 cholesterol, or elevated non-HDL cholesterol.

113. The method of claim 112, wherein the elevated LDL-cholesterol level is above a target level of at least about 100 mg/dL, 130 mg/dL, 160 mg/dL, or 190 mg/dL.

10 114. The method of claim 112, wherein the administering the compound to the animal reduces LDL-cholesterol levels.

115. The method of claim 114, wherein administering the compound results in an LDL-cholesterol level below a target level of at least about 190 mg/dL, 160 mg/dL, 130 mg/dL,
15 100 mg/dL, 70 mg/dL, or 50 mg/dL.

116. The method of claim 112, wherein the one or more risk factors is selected from age, smoking, hypertension, low HDL-cholesterol, and a family history of early coronary heart disease.

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117. The method of claim 112, wherein the animal failed to meet the LDL-cholesterol target level on lipid-lowering therapy, did not comply with the recommend therapy, experienced side effects of therapy, or any combination thereof.

25 118. The method of claim 117, wherein the lipid-lowering therapy is a statin.

119. The method of claim 117, wherein the lipid-lowering therapy is ezetimibe.

120. The method of claim 96, wherein administering results in a reduction of ApoB,
30 LDL-cholesterol, VLDL-cholesterol, Lp(a), small LDL-particle, small VLDL-particle, non-HDL-cholesterol, liver triglyceride level, serum triglycerides, serum phospholipids, or any combination thereof.

121. The method of claim 120, wherein the ApoB reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

5

122. The method of claim 121, wherein the ApoB reduction is between 10% and 80%, between 20% and 70%, between 30% and 60%, or between 30% and 70%.

123. The method of claim 120, wherein the LDL-cholesterol reduction is at least 10%,
10 at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at
least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at
least 85%, at least 90%, at least 95%, or at least 100%.

124. The method of claim 120, wherein the VLDL-cholesterol reduction is at least
15 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least
45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least
80%, at least 85%, at least 90%, at least 95%, or at least 100%.

125. The method of claim 120, wherein the Lp(a) reduction is at least 10%, at least
20 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least
50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least
85%, at least 90%, at least 95%, or at least 100%.

126. The method of claim 120, wherein the small LDL-particle reduction is at least
25 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least
45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least
80%, at least 85%, at least 90%, at least 95%, or at least 100%.

127. The method of claim 120, wherein the small VLDL-particle reduction is at least
30 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least
45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least
80%, at least 85%, at least 90%, at least 95%, or at least 100%.

128. The method of claim 120, wherein the non-HDL-cholesterol reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

5

129. The method of claim 120, wherein the liver triglyceride level reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

10

130. The method of claim 120, wherein the administering of the pharmaceutical composition results in a serum triglyceride reduction of at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

15

131. The method of claim 120, wherein the administering of the pharmaceutical composition results in a serum phospholipid reduction of at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

20

132. The method of claims 120 or 131, wherein the serum phospholipid is serum oxidized phospholipid.

25

133. The method of claim 96, wherein administering results in reduced coronary heart disease risk, or slows, stops or prevents the progression of atherosclerosis, or any combination thereof.

30

134. The method of claim 96, wherein administering results in improved cardiovascular outcome of the human.

135. The method of claim 134, wherein the improved cardiovascular outcome is improved carotid intimal media thickness, improved atheroma thickness, increased HDL-cholesterol, or any combination thereof.

5 136. The method of claim 96, wherein administering ameliorates hepatic steatosis, results in lipid lowering, improves LDL/HDL ration, or any combination thereof.

137. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion which consists of at least 8
10 contiguous nucleobases complementary to an equal-length portion of 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-3824 of
25 SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

138. The compound of claim 137, wherein the modified oligonucleotide is at least 95% complementary to SEQ ID NO: 3.

30

139. The compound of claim 138, wherein the modified oligonucleotide is 100% complementary to SEQ ID NO: 3.

140. The compound of claim 137, wherein the modified oligonucleotide hybridizes exclusively within 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

141. The compound of claim 138, wherein the modified oligonucleotide hybridizes exclusively within 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268,

3482-3711, 3727-3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

142. The compound of claim 139, wherein the modified oligonucleotide hybridizes
5 exclusively within 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559,
10 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035,
15 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of
20 the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

143. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion of at least 8 contiguous nucleobases fully complementary to an equal length portion of nucleobases 220-253, 290-321,
25 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602,
30 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023,

1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099,
2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381,
2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589,
2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923,
5 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-
3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is
at least 90% complementary to SEQ ID NO: 3.

144. The compound of claim 143, wherein the modified oligonucleotide is at least 95%
10 complementary to SEQ ID NO: 3.

145. The compound of claim 143, wherein the modified oligonucleotide is 100%
complementary to SEQ ID NO: 3.

15 146. The compound of claim 143, wherein the modified oligonucleotide hybridizes
exclusively within 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934,
968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447,
1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482,
1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555,
20 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559,
1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703,
1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856,
1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971,
1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018,
25 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035,
2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177,
2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588,
2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689,
2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268,
30 3482-3711, 3727-3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of
the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

147. The compound of claim 144, wherein the modified oligonucleotide hybridizes exclusively within 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 5 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 10 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 15 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

148. The compound of claim 145, wherein the modified oligonucleotide hybridizes 20 exclusively within 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 25 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 30 2038-2139, 2061-2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268,

3482-3711, 3727-3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

149. The compound of claim 137, consisting of a single-stranded modified
5 oligonucleotide.

150. The compound of claim 149, wherein at least one internucleoside linkage is a phosphorothioate internucleoside linkage.

10 151. The compound of claim 137, wherein each internucleoside linkage is a phosphorothioate internucleoside linkage.

152. The compound of claim 151, wherein at least one nucleoside comprises a modified sugar.

15

153. The compound of claim 152, wherein at least one modified sugar is a bicyclic sugar.

154. The compound of claim 153, wherein at least one modified sugar comprises a 2'-
20 O-methoxyethyl.

155. The compound of claim 151, wherein at least one nucleoside comprises a modified nucleobase.

25 156. The compound of claim 155, wherein the modified nucleobase is a 5-methylcytosine.

157. The compound of claim 137, wherein the modified oligonucleotide comprises:
a gap segment consisting of linked deoxynucleosides;
30 a 5' wing segment consisting of linked nucleosides; and
a 3' wing segment consisting of linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment; and wherein each nucleoside of each wing segment comprises a modified sugar.

158. The compound of claim 157, wherein the modified oligonucleotide comprises:
a gap segment consisting of ten linked deoxynucleosides;
a 5' wing segment consisting of five linked nucleosides; and
5 a 3' wing segment consisting of five linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing
segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar;
and wherein each internucleoside linkage is a phosphorothioate linkage.

10 159. The antisense compound of claim 157, wherein the antisense compound is a
chimeric oligonucleotide consisting of:
a gap segment consisting of from 10 to 18 linked 2'-deoxynucleosides;
a 5' wing segment consisting of from 1 to 5 linked nucleosides; and
a 3' wing segment consisting of from 1 to 5 linked nucleosides;
15 wherein each nucleoside of the 5' wing segment is a sugar-modified nucleoside, each nucleoside
of the 3' wing segment is a sugar-modified nucleoside, and each internucleoside linkage is a
phosphorothioate internucleoside linkage.

160. The compound of claim 137, wherein the modified oligonucleotide consists of 20
20 linked nucleosides.

161. A composition comprising a modified oligonucleotide consisting of 12 to 30
linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous
nucleobases of a nucleobase sequence selected from among the nucleobase sequences recited in
25 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-
1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-
1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-
1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-
1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-
30 1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-
1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-
1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-
2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-

2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-
2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-
2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-
2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-
5 2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-
3751, or 3798-3824 of SEQ ID NO: 3 or a salt thereof, and a pharmaceutically acceptable carrier
or diluent.

10 162. The composition of claim 161, wherein the modified oligonucleotide is a single-
stranded oligonucleotide.

163. The composition of claim 161, wherein the modified oligonucleotide consists of
20 linked nucleosides.

15 164. A method comprising administering to an animal a modified oligonucleotide
consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising a portion
which consists of at least 8 contiguous nucleobases complementary to an equal-length portion of
220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-
1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-
20 1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-
1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-
1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-
1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-
1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-
25 1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-
2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-
2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-
2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-
2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-
30 2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-
2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-
3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified
oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

165. The method of claim 164, wherein the animal is a human.

166. The method of claim 165, wherein administering the compound slows progression
5 and/or ameliorates hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia,
coronary heart disease, acute coronary syndrome, early onset coronary heart disease, type II
diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-
alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic
syndrome, atherosclerosis, or improves cardiovascular outcome, or any combination thereof .

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167. The method of claim 164, comprising co-administering the compound and at least
one additional therapy.

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168. The method of claim 167, wherein the compound and additional therapy are
administered concomitantly.

169. The method of claim 167, wherein the compound and the additional therapy are
administered in the same formulation.

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170. The method of claim 167, wherein the additional therapy is a lipid lowering
therapy.

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171. The method of claim 170, wherein the lipid lowering therapy is a therapeutic
lifestyle change, HMG-CoA reductase inhibitor, cholesterol absorption inhibitor, MTP inhibitor,
antisense compound targeted to ApoB, or any combination thereof.

172. The method of claim 171, wherein the HMG-CoA reductase inhibitor is
atorvastatin, rosuvastatin, or simvastatin.

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173. The method of claim 171, wherein the cholesterol absorption inhibitor is
ezetimibe.

174. The method of claims 171, wherein the additional lipid lowering therapy comprises an HMG-CoA reductase inhibitor that is simvastatin, and a cholesterol absorption inhibitor that is ezetimibe.

5 175. The method of claim 171, wherein the antisense compound is ISIS 301012.

176. The method of claim 164, wherein the administering is parenteral administration.

10 177. The method of claim 176, wherein the parenteral administration comprises subcutaneous or intravenous administration.

178. The method of claim 164, wherein the administering comprises oral administration.

15 179. A method comprising administering to a human with hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, coronary heart disease, early onset coronary heart disease, acute coronary syndrome, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis,
20 elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, or elevated non-HDL cholesterol, a therapeutically effective amount of a composition comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous nucleobases complementary to an equal-length portion
25 of 220-253, 290-321, 377-419, 451-615, 653-672, 741-760, 871-897, 915-934, 968-1017, 1075-1124, 1075-1174, 1144-1174, 1275-1302, 1315-1341, 1351-1389, 1351-1447, 1365-1439, 1390-1417, 1390-1429, 1390-1439, 1399-1425, 1408-1435, 1420-1447, 1453-1482, 1490-1516, 1490-1564, 1500-1526, 1515-1541, 1527-1553, 1527-1554, 1528-1554, 1529-1555, 1529-1556, 1530-1556, 1530-1557, 1531-1557, 1532-1558, 1533-1559, 1534-1559, 1535-1559, 1536-1559, 1537-1564, 1566-1602, 1566-1681, 1606-1626, 1618-1645, 1626-1653, 1684-1703, 1730-1781, 1740-
30 1767, 1749-1775, 1758-1781, 1820-1847, 1820-1877, 1822-2198, 1830-1856, 1839-1865, 1840-1867, 1898-1924, 1898-2035, 1903-2127, 1907-1934, 1911-1938, 1946-1971, 1954-1980, 1959-2035, 1959-2057, 1963-1988, 1967-2035, 1972-1999, 1982-2008, 1991-2018, 1993-2019, 1995-2022, 1996-2023, 1997-2024, 1998-2025, 1999-2025, 2000-2025, 2009-2035, 2038-2139, 2061-

2139, 2073-2099, 2078-2104, 2105-2131, 2112-2139, 2168-2198, 2170-2177, 2245-2284, 2295-2394, 2355-2381, 2355-2394, 2405-2461, 2560-2587, 2560-2609, 2561-2588, 2562-2589, 2563-2589, 2564-2589, 2565-2589, 2566-2589, 2567-2589, 2568-2589, 2665-2689, 2759-2783, 2837-2880, 2904-2923, 3005-3024, 3005-3174, 3083-3110, 3155-3184, 3238-3268, 3482-3711, 3727-5 3751, or 3798-3824 of SEQ ID NO: 3, and wherein the nucleobase sequence of the modified oligonucleotide is at least 90% complementary to SEQ ID NO: 3.

180. The method of claim 164, wherein the animal has hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, a history of coronary heart disease, 10 coronary heart disease, acute coronary syndrome, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, 15 elevated IDL-cholesterol, or elevated non-HDL cholesterol.

181. The method of claim 180, wherein the elevated LDL-cholesterol level is above a target level of at least about 100 mg/dL, 130 mg/dL, 160 mg/dL, or 190 mg/dL.

20 182. The method of claim 180, wherein the administering the compound to the animal reduces LDL-cholesterol levels.

183. The method of claim 182, wherein administering the compound results in an LDL-cholesterol level below a target level of at least about 190 mg/dL, 160 mg/dL, 130 mg/dL, 25 100 mg/dL, 70 mg/dL, or 50 mg/dL.

184. The method of claim 180, wherein the one or more risk factors is selected from age, smoking, hypertension, low HDL-cholesterol, and a family history of early coronary heart disease.

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185. The method of claim 180, wherein the animal failed to meet the LDL-cholesterol target level on lipid-lowering therapy, did not comply with the recommend therapy, experienced side effects of therapy, or any combination thereof.

186. The method of claim 185, wherein the lipid-lowering therapy is a statin.

187. The method of claim 185, wherein the lipid-lowering therapy is ezetimibe.

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188. The method of claim 164, wherein administering results in a reduction of ApoB, LDL-cholesterol, VLDL-cholesterol, Lp(a), small LDL-particle, small VLDL-particle, non-HDL-cholesterol, liver triglyceride level, serum triglycerides, serum phospholipids, or any combination thereof.

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189. The method of claim 188, wherein the ApoB reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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190. The method of claim 189 wherein the ApoB reduction is between 10% and 80%, between 20% and 70%, between 30% and 60%, or between 30% and 70%.

191. The method of claim 188, wherein the LDL-cholesterol reduction is at least 10%,
20 at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

192. The method of claim 188, wherein the VLDL-cholesterol reduction is at least
25 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

193. The method of claim 188, wherein the Lp(a) reduction is at least 10%, at least
30 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

194. The method of claim 188, wherein the small LDL-particle reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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195. The method of claim 188, wherein the small VLDL-particle reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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196. The method of claim 188, wherein the non-HDL-cholesterol reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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197. The method of claim 188, wherein the liver triglyceride level reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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198. The method of claim 188, wherein the administering of the pharmaceutical composition results in a serum triglyceride reduction of at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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199. The method of claim 188, wherein the administering of the pharmaceutical composition results in a serum phospholipid reduction of at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

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200. The method of claims 188 or 199, wherein the serum phospholipid is serum oxidized phospholipid.

201. The method of claim 164, wherein administering results in reduced coronary heart disease risk, or slows, stops or prevents the progression of atherosclerosis, or any combination thereof.

202. The method of claim 164, wherein administering results in improved cardiovascular outcome of the human.

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203. The method of claim 202, wherein the improved cardiovascular outcome is improved carotid intimal media thickness, improved atheroma thickness, increased HDL-cholesterol, or any combination thereof.

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204. The method of claim 164, wherein administering ameliorates hepatic steatosis, results in lipid lowering, improves LDL/HDL ration, or any combination thereof.

20

205. A compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase sequence comprising at least 12 contiguous nucleobases of a nucleobase sequence selected from among the nucleobase sequences recited in SEQ ID NOs: 4 - 457.

25

206. The compound of claim 205 consisting of a single-stranded modified oligonucleotide.

207. The compound of claim 206, wherein the nucleobase sequence of the modified oligonucleotide is 80% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

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208. The compound of claim 206, wherein the nucleobase sequence of the modified oligonucleotide is 85% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

209. The compound of claim 206, wherein the nucleobase sequence of the modified oligonucleotide is 90% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

5 210. The compound of claim 206, wherein the nucleobase sequence of the modified oligonucleotide is 95% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

10 211. The compound of claim 206, wherein the nucleobase sequence of the modified oligonucleotide is 99% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

15 212. The compound of claim 206, wherein the nucleobase sequence of the modified oligonucleotide is 100% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

213. The compound of claim 206, wherein at least one internucleoside linkage is a phosphorothioate internucleoside linkage.

20 214. The compound of claim 213, wherein each internucleoside linkage is a phosphorothioate internucleoside linkage.

215. The compound of claim 206, wherein at least one nucleoside comprises a modified sugar.

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216. The compound of claim 215, wherein at least one modified sugar is a bicyclic sugar.

30 217. The compound of claim 215, wherein at least one modified sugar comprises a 2'-O-methoxyethyl.

218. The compound of claim 206, wherein at least one nucleoside comprises a modified nucleobase.

219. The compound of claim 218, wherein the modified nucleobase is a 5-methylcytosine.

5 220. The compound of claim 205, wherein the modified oligonucleotide comprises:
a gap segment consisting of linked deoxynucleosides;
a 5' wing segment consisting of linked nucleosides; and
a 3' wing segment consisting of linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing
10 segment; and wherein each nucleoside of each wing segment comprises a modified sugar.

221. The compound of claim 220, wherein the modified oligonucleotide comprises:
a gap segment consisting of ten linked deoxynucleosides;
a 5' wing segment consisting of five linked nucleosides; and
15 a 3' wing segment consisting of five linked nucleosides;
wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment;
wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar; and
wherein each internucleoside linkage is a phosphorothioate linkage.

20 222. The antisense compound of claim 220, wherein the antisense compound is a
chimeric oligonucleotide consisting of:
a gap segment consisting of from 10 to 18 linked 2'-deoxynucleosides;
a 5' wing segment consisting of from 1 to 5 linked nucleosides; and
a 3' wing segment consisting of from 1 to 5 linked nucleosides;
25 wherein each nucleoside of the 5' wing segment is a sugar-modified nucleoside, each nucleoside
of the 3' wing segment is a sugar-modified nucleoside, and each internucleoside linkage is a
phosphorothioate internucleoside linkage.

223. The compound of claim 206, wherein the modified oligonucleotide consists of 20
30 linked nucleosides.

224. A composition comprising a modified oligonucleotide consisting of 12 to 30
linked nucleosides and having a nucleobase sequence comprising at least 12 contiguous

nucleobases of a nucleobase sequence selected from among the nucleobase sequences recited in SEQ ID NOs: 4 - 457 or a salt thereof and a pharmaceutically acceptable carrier or diluent.

225. The composition of claim 224, wherein the modified oligonucleotide is a single-
5 stranded oligonucleotide.

226. The composition of claim 224, wherein the modified oligonucleotide consists of
20 linked nucleosides.

10 227. A method comprising administering to an animal a compound comprising a
modified oligonucleotide consisting of 12 to 30 linked nucleosides and having a nucleobase
sequence comprising at least 12 contiguous nucleobases of a nucleobase sequence selected from
among the nucleobase sequences recited in SEQ ID NOs: 4 - 457.

15 228. The method of claim 227, wherein the animal is a human.

229. The method of claim 228, wherein administering the compound slows progression
and/or ameliorates hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia,
coronary heart disease, acute coronary syndrome, early onset coronary heart disease, type II
20 diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-
alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic
syndrome, atherosclerosis, or improves cardiovascular outcome, or any combination thereof.

230. The method of claim 228, comprising co-administering the compound and at least
25 one additional therapy.

231. The method of claim 230, wherein the compound and additional therapy are
administered concomitantly.

30 232. The method of claim 230, wherein the compound and the additional therapy are
administered in the same formulation.

233. The method of claim 230, wherein the additional therapy is a lipid lowering therapy.

234. The method of claim 233, wherein the lipid lowering therapy is a therapeutic
5 lifestyle change, HMG-CoA reductase inhibitor, cholesterol absorption inhibitor, MTP inhibitor, antisense compound targeted to ApoB, or any combination thereof.

235. The method of claim 234, wherein the HMG-CoA reductase inhibitor is atorvastatin, rosuvastatin, or simvastatin.

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236. The method of claim 234, wherein the cholesterol absorption inhibitor is ezetimibe.

237. The method of claim 234, wherein the antisense compound is ISIS 301012.

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238. The method of claim 227, wherein the administering is parenteral administration.

239. The method of claim 228, wherein the parenteral administration comprises subcutaneous or intravenous administration.

20

240. The method of claim 227, wherein the administering comprises oral administration.

241. The method of claim 227, wherein the animal has hypercholesterolemia,
25 polygenic hypercholesterolemia, mixed dyslipidemia, a history of coronary heart disease, coronary heart disease, acute coronary syndrome, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, atherosclerosis,
30 elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, elevated LDL-cholesterol, elevated non-HDL cholesterol, or any combination thereof.

242. The method of claim 241, wherein the elevated LDL-cholesterol level is above a target level of at least about 100 mg/dL, at least 130 mg/dL, at least 160 mg/dL, or at least 190 mg/dL.

5 243. The method of claim 241, wherein the one or more risk factors is selected from age, smoking, hypertension, low HDL-cholesterol, and a family history of early coronary heart disease.

10 244. The method of claim 227, wherein the animal failed to meet a LDL-cholesterol target level on lipid-lowering therapy, did not comply with the recommend therapy, experienced side effects of therapy, or any combination thereof.

245. The method of claim 244, wherein the lipid-lowering therapy is a statin or ezetimibe.

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246. The method of claim 227, wherein administering results in a reduction of ApoB, LDL-cholesterol, VLDL-cholesterol, Lp(a), small LDL-particle, small VLDL-particle, non-HDL-cholesterol, liver triglyceride level, serum triglycerides, serum phospholipids, or any combination thereof.

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247. The method of claim 246, wherein administering the compound results in a reduction of LDL-cholesterol level below a target level of at least about 190 mg/dL, at least 160 mg/dL, at least 130 mg/dL, at least 100 mg/dL, 70 mg/dL, or 50 mg/dL.

25 248. The method of claim 247, wherein the reduction is at least 10%, at least 15%, at least 20%, at least 25%, at least 30%, at least 35%, at least 40%, at least 45%, at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, or at least 100%.

30 249. The method of claim 248, wherein the reduction is between 10% and 80%, between 20% and 70%, between 30% and 60%, or between 30% and 70%.

250. The method of claims 246, wherein the serum phospholipid is serum oxidized phospholipid.

251. The method of claim 229, wherein the improved cardiovascular outcome is improved carotid intimal media thickness, improved atheroma thickness, increased HDL-cholesterol, or any combination thereof.

252. The method of any of claims 227-251, comprising administering the pharmaceutical composition every day, every two days, every three days, every four days, every five days, every six days, or every 7 days.

253. The method of any of claims 227-251, comprising administering the pharmaceutical composition every week, every two weeks, every three weeks, or every four weeks.

15

254. The method of any of claims 227-251, comprising administering the pharmaceutical composition every month, every two months, every three months, every four months, or every six months.

255. The method of any of claims 227-251, wherein the dose is 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 270, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, or 800 mg.

256. The method of any of claims 227-251, wherein the dose is 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 270, 280, 285, 290, 295, or 300 mg.

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257. The method of any of claims 227-251, wherein the dose is 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 375, or 400 mg.

258. The method of any of claims 227-251, wherein the pharmaceutical composition
5 comprises an antisense oligonucleotide concentration of about 50 mg/ml, about 75 mg/ml, about 100 mg/ml, about 125 mg/ml, about 150 mg/ml, about 175 mg/ml, about 200 mg/ml, about 225 mg/ml, or about 250 mg/ml.

259. A method of inhibiting the expression of PCSK9 in human cells or tissues
10 comprising contacting said cells or tissues with a compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides targeted to a nucleic acid molecule encoding human PCSK9.

260. A method of treating hypercholesterolemia, polygenic hypercholesterolemia,
15 mixed dyslipidemia, a history of coronary heart disease, coronary heart disease, early onset coronary heart disease, acute coronary syndrome, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, elevated ApoB, elevated cholesterol, elevated LDL-
20 cholesterol, elevated VLDL-cholesterol, elevated LDL-cholesterol, atherosclerosis, elevated non-HDL cholesterol, or any combination thereof, by administering to a human having hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, a history of coronary heart disease, coronary heart disease, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia,
25 hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, elevated LDL-cholesterol, elevated non-HDL cholesterol, or any combination thereof, a compound comprising a modified oligonucleotide consisting of 12 to 30 linked nucleosides targeted to a nucleic acid
30 molecule encoding human PCSK9.

261. The method of claim 259, wherein treating results in slowed progression and/or amelioration of hypercholesterolemia, polygenic hypercholesterolemia, mixed dyslipidemia, a

history of coronary heart disease, acute coronary syndrome, coronary heart disease, early onset coronary heart disease, one or more risk factors for coronary heart disease, type II diabetes, type II diabetes with dyslipidemia, hepatic steatosis, non-alcoholic steatohepatitis, non-alcoholic fatty liver disease, hypertriglyceridemia, hyperfattyacidemia, hyperlipidemia, metabolic syndrome, elevated ApoB, elevated cholesterol, elevated LDL-cholesterol, elevated VLDL-cholesterol, elevated IDL-cholesterol, atherosclerosis, elevated non-HDL cholesterol, or any combination thereof.

262. The method of claim 259, wherein the compound is 80% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

263. The method of claim 259, wherein the compound is 85% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

264. The method of claim 259, wherein the compound is 90% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

265. The method of claim 259, wherein the compound is 95% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

266. The method of claim 259, wherein the compound is 99% complementary to a nucleic acid sequence encoding PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

267. The method of claim 259, wherein the compound is 100% complementary to a nucleic acid sequence encoding human PCSK9 selected from among the nucleic acid sequences recited in SEQ ID NOs: 1-3.

268. The method of claim 259, wherein the compound consists of a single-stranded modified oligonucleotide.

269. The method of claim 259, wherein the compound comprises at least one
5 phosphorothioate internucleoside linkage.

270. The method of claim 269, wherein each internucleoside linkage in the compound is a phosphorothioate internucleoside linkage.

10 271. The method of claim 259, wherein the compound comprises a modified sugar.

272. The method of claim 271, wherein the modified sugar is a bicyclic sugar.

273. The method of claim 272, wherein the modified sugar is a 2'-O-methoxyethyl.

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274. The method of claim 259, wherein at least one nucleoside of the compound comprises a modified nucleobase.

275. The method of claim 274, wherein the modified nucleobase is a 5-methylcytosine.

20

276. The method of claim 259, wherein the modified oligonucleotide comprises:
a gap segment consisting of linked deoxynucleosides;
a 5' wing segment consisting of linked nucleosides; and
a 3' wing segment consisting of linked nucleosides;

25

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment; and wherein each nucleoside of each wing segment comprises a modified sugar.

277. The method of claim 259, wherein the modified oligonucleotide comprises:
a gap segment consisting of ten linked deoxynucleosides;
30 a 5' wing segment consisting of five linked nucleosides; and
a 3' wing segment consisting of five linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment; wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar; and wherein each internucleoside linkage is a phosphorothioate linkage.

5 278. The method of claim 259, wherein the modified oligonucleotide consists of 20 linked nucleosides.

 279. The method of claim 259, wherein the administering is parenteral administration.

10 280. The method of claim 259, wherein the parenteral administration comprises subcutaneous or intravenous administration.

 281. The method of claim 259, wherein the administering is an oral administration.