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(54) **Title:** LONG NON-CODING RNAS (LNCRNAS) FOR THE DIAGNOSIS AND THERAPEUTICS OF BRAIN DISORDERS, IN PARTICULAR COGNITIVE DISORDERS

(57) **Abstract:** The present invention describes a method for the therapeutic treatment and/or for the diagnosis of a brain disorder including but not limited to cognitive disorders such as mild cognitive impairment, Alzheimer disease, frontotemporal dementia, dementia with Lowy body in a subject at risk of having or developing a brain disorder such as cognitive disorder, using long non-coding RNA (lncRNA).

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Long non-Coding RNAs (lncRNAs) For the Diagnosis and Therapeutics of Brain Disorders, in particular Cognitive Disorders

CROSS REFERENCE TO RELATED APPLICATIONS

This application claims the benefit and priority of United States provisional application 62/727,210, filed on September 5, 2018.

FIELD OF THE INVENTION

The present invention relates to the field of human medicine and specifically to the diagnostic and therapeutic of brain disorders and particularly cognitive disorders including those with mild cognitive impairment, Alzheimer disease, dementia with Lewy body and frontotemporal dementia. This invention relates to a biomarker for brain disorders, such as cognitive disorders, consisting in long non-coding RNAs (lncRNAs) in a peripheral circulating body fluid such as plasma or blood and/or expressed in brain tissue and/or whole blood and representing a therapeutic target for brain disorders, or non-invasive method for diagnosing brain disorders such as cognitive disorders, in particular Alzheimer's disease or for monitoring its development or progression using this biomarker. It further relates to associated kits, methods, protocols and transmittable forms of information for diagnosis purposes and/or for other human medicine applications including the patient stratification in clinical trials and/or monitoring the efficacy of therapeutic strategies using this biomarker and peripheral body fluids or whole blood from patients. The invention further consists in brain specific lncRNAs altered in patient with brain disease in particular cognitive disorder and representing a diagnostic or therapeutic candidate for their treatment. The present invention will thus have a strong impact on the quality of life of patients and a significant impact on the healthcare system and economy.

BACKGROUND ART

Alzheimer's disease (AD) is a chronic neurodegenerative disease characterized by progressive loss of cognitive function. Mild cognitive impairment (MCI) is a major first symptom and evolves progressively into mild, moderate and severe AD stages. Early-onset AD occurs between a 30s to mid-60s and represents less than 10% of all people with AD and is caused by a mutation in APP or PSEN1 or PSEN2 genes. Most people with AD have the late-onset form with onset of symptoms in the mid-60s and later. The causes of late-onset AD are not yet completely understood, but most documented genetic risk factor is the apolipoprotein E

(APOE) gene allele ε4. All AD forms, whether early-onset familial or sporadic forms, are pathologically characterized by two typical hallmarks, extracellular deposition of amyloid-beta peptide (Aβ) (a metabolite of APP protein encoded by APP gene) in amyloid plaques and intracellular deposition of hyper-phosphorylated tau protein (encoded by MAPT gene) in neurofibrillary tangles in the brain, associated with progressive neuronal degeneration (Marcus et al. J Neurogenet. 2011; 25(4):127-33; Gotz et al, Br J Pharmacol. 2012; 165(5):1246-59).

AD is the most common form of dementia. Approximately 46.8 million people worldwide currently live with AD or other type of dementia. With an ageing population, this number is estimated to increase to 131.5 million by 2050 (World Alzheimer Report, 2015). As such, AD is becoming an increasingly important burden on the affected individuals and their families as well as economic and social costs on medical and healthcare resources in both developed and emerging countries.

Dementia with Lewy bodies (DLB) and Parkinson's disease dementia (PDD), both called Lewy body dementias, are the second most common type of degenerative dementia in patients older than 65 years and their brain pathological hallmarks are α-synuclein neuronal inclusions (Lewy bodies, and Lewy neurites), accompanied by neuronal loss (Lancet. 2015 Oct 24;386(10004):1683-97). Variants in three genes *APOE, SNCA,* and *GBA* have been associated with an increased risk of dementia with Lewy bodies, but in most cases, the cause is unknown.

Frontotemporal dementia (FTD) is the third most common dementia across all age groups and the 1st or the 2nd (after AD) prevalent dementia in the 45–64 years age group. The most common form is known as behavioral variant frontotemporal dementia (bvFTD), which is characterized (in its early stages) by changes in personality, behavior, and judgment. Other disorders under the "frontotemporal disorders" umbrella include Pick's disease, primary progressive aphasia, primary non-fluent aphasia, semantic dementia, corticobasal degeneration (CBD) syndrome, progressive supranuclear palsy (PSP), frontotemporal dementia (FTD) with parkinsonism, and FTD with amyotrophic lateral sclerosis (ALS).

There are overlapping clinical features between the classic clinical phenotypes of FTD spectrum disorders, thus complicating the clinical diagnostic picture. FTD spectrum disorders also share common underlying molecular pathology with findings of frontotemporal lobar degeneration, with neuronal and astrocytic inclusions of tau protein, TAR DNA-binding protein 43 (TDP-43), and rarely RNA-binding protein fused in sarcoma (FUS). bvFTD and PPA_language variants are associated with tau, TDP-43 or FUS proteinopathies, and PSP syndrome is often associated with tau proteinopathy. While CBD syndrome pathology comprises tauopathy in the form of CBD or PSP, but also beta-amyloidopathy/tauopathy (typical of AD), prionopathy, TDP-43 proteinopathy and alpha-synucleinopathy. As many as

40% of patients with FTD have a family history of the disease. 10%–20% of all cases attributed to mutations in or near the 3 genes: *C9orf72* (encoding protein C9orf72), *GRN* (encoding progranulin) and *MAPT* (encoding tau). More rare, other causing genetic mutations have been identified in familial FTD: *VCP*, *TARDBP*, *TIA1*, *TBK1* and *CCNF* genes for cases of FTD due to TDP proteinopathy, and in *CHMP2B* and *FUS* for cases of FTD due to tau-negative, TDP-negative, ubiquitin-positive pathology (Lancet. 2015 Oct 24;386(10004):1672-82; Desmarais P, et al. J Neurol Neurosurg Psychiatry 2019;90:412–423).

Currently, there is no cure for AD, nor for any of the other non-AD dementia types. Symptomatic treatments exist for these diseases, all trying to counterbalance neurotransmitter's disturbance. Although a number of new potential disease-modifying therapeutic candidates are currently being studied in clinical trials in AD, none has been approved yet. From 2002 to 2012, there was a failure of 99.6% of AD clinical trials that were 289 Phases 2 and 3 trials on symptomatic agents (36.6%), disease-modifying small molecules (35.1%) and disease-modifying immunotherapies (18%) (Cummings et al., Expert Rev Clin Pharmacol. 2014;7(2):161-5). Among the strategies proposed by worldwide experts in the AD field and by pharmaceutical industries to improve the success rate for AD drug development, are: a) intervening earlier in the disease process before neurodegeneration begins, b) identifying and developing accurate biomarkers for early diagnosis, non-invasive and suitable for stratification of subject populations and for longitudinal monitoring of drug efficacy in clinical trials.

The AD pathological features are defined in post-mortem histopathological analysis. The presence of both types of lesions (amyloid plaques and tangles) in the brain remains an absolutely required feature for the definitive diagnosis of AD.

Current diagnosis of the disease remains uncertain (Dubois et al Lancet Neurol. 2014;13(6):614-29) and it is based on combination of battery of clinical and neuropsychological tests and neuroimaging, such as structural imaging using Magnetic Resonance Imaging (MRI) and/or glucose metabolism using ositron emission tomography (PET) of fluorodeoxyglucose F18 (^{18}F-FDG), with an accuracy of less than 70%-85% depending on the method and the severity stage of the disease (Frisoni et al., Nat Rev Neurol. 2010; 6(2): 67–77; Tahmasian et al., J Nucl Med. 2016 ;57(3):410-5).

Sometimes, detection of AD-associated biomarkers Aβ42 and tau or phosphorylated-tau in cerebrospinal fluid (CSF) is additionally performed (Sunderland et al., JAMA. 2003;289(16):2094-2103), but CSF tests request a lumbar puncture, which is an invasive procedure and often requires hospitalization of subjects and therefore used only in a small proportion of subjects and at a too-late-stage of AD.

Longitudinal confirmatory diagnosis test is essential for applications to early detection of the preclinical stages of AD and mild cognitive impairment (MCI; defined as an early stage

during which the first subtle symptoms manifest) and thus detecting early and calculating the risk of conversion of MCI into AD. Due to its limits (invasive), a CSF test is not routinely used as a biomarker for early diagnosis in preclinical AD stages before symptoms appear, nor it is suitable as a companion biomarker repeatedly practiced at several time points in same subjects recruited in longitudinal clinical trials.

Recently, specific neuroimaging methods relevant for AD pathology are being developed, notably with radioactive ligands for in vivo amyloid-beta (Aβ) ligands for Positron Emission Tomography (PET) neuroimaging including F-18 florbetapir and F-18 flutemetamol which have been approved by FDA and/or EMA (Choi et al., 2009 and Wong et al., 2010). However, their practice is costly and very limited (available only in some hospitals of large cities, still mainly for clinical research purposes as not reimbursed by health insurances) and their diagnosis accuracy is still under studies for further understanding. Thus, the use of these Aβ PET neuroimaging methods remains very limited and the vast majority of patients do not profit from such tests even in rich countries.

There is a need for better definition of AD patient population to be included for the drug-development trials: PET imaging using Aβ ligands showed that up to 30% of subjects diagnosed with AD show a negative Aβ scan and that up to 35% of subjects with normal cognition status show a positive Aβ scan (Gaël Chételat et al, NeuroImage Clinical 2013; 2:356-65). Thus, PET Aβ scan is being used to guide for recruitment of subjects in the desired cohorts in some clinical trials by the large pharmaceutical companies. Anti-Aβ antibody e.g. Solanezumab tested in patients with mixed mild to moderate AD failed to show clear efficacy. In mild AD patients selected based on CSF biomarker profile, the results showed a first promising efficacy (Carlson et al., Alzheimers Dement (Amst). 2016; 2:75-85; Siemers et al., Alzheimers Dement. 2016;12(2):110-20). However, the use of CSF biomarker is invasive, dramatically limiting its use as a biomarker for drug development. For example, it is not suitable for repeated use to monitor the stability and/or the progression of the disease, nor it is suitable to monitor in clinical longitudinal trials the efficacy of disease-modifying therapeutic drug candidates or preventive strategies in routine clinical practice use.

Overall, the existing tests either lack an easy accessibility and simplicity for use for diagnosis of the large AD population and/or lack accuracy (sensitivity and specificity). This represents a major impediment and bottleneck to develop reliable and rapid diagnosis test for AD. Another impediment is the identification of a biomarker that does not require invasive sample collecting, such as a spinal tap. The lack of such an accessible, sensitive and specific biomarker that could be validated by cellular, animal model, pre-clinical models, and human testing impedes the development of therapies and drugs for AD or for the studies on pathological processes triggering AD or involved in the progression of AD.

Today, clearly there is a high unmet medical need for efficient preventive or disease-modifying therapeutic treatment, as well as for an accurate and non-invasive peripheral biomarker test for early diagnosis of AD including preclinical and early MCI and for applications in drug development (patient stratification and repeated monitoring drug efficacy in clinical trials) and to monitor the efficacy and adjust the dosing novel future therapies once approved.

Likewise, for non-AD dementia, including DLB and for many FTD related neurodegenerative disorders, there is a high unmet medical need for efficient preventive or disease-modifying therapeutic treatment, and for an accurate and non-invasive peripheral biomarker test for diagnosis in particular of their early forms.

lncRNAs are typically defined as transcripts longer than 200 nucleotides and among the RNA families, lncRNAs seem to be the most tissue-specifically expressed. In the brain, lncRNAs can regulate gene expression at epigenetic, transcriptional, and posttranscriptional levels of proteins with diverse functions including neuronal transmission and synaptic plasticity. Recent studies identified a few lncRNA candidates in AD postmortem brain tissue; some lncRNA candidates have been shown in *in vitro* experiments or animal models to directly or indirectly regulate the formation of the neurotoxic Aβ, synaptic activity or the neuronal DNA repair (for review: Luo K and Chen Y, Clin Interv Aging 2016; 11: 867–872).

We previously showed that the lncRNAs expressed or highly enriched in tissues such as cardiac tissue or brain tissue, can be released into the peripheral circulation and be easily quantifiable by classical RT-PCR in different peripheral samples (PCT/EP2018/065492). In addition of the RT-PCR, we performed also total RNA sequencing on peripheral samples and quantified significant proportion of lncRNAs in the peripheral samples such as serum, plasma and Paxgene-RNA-tube collected whole blood (PCT/EP2018/065492).

According to the invention, new lncRNA signatures specific of brain diseases, in particular mild cognitive impairment (MCI) and Alzheimer or another cognitive disorder have been identified, using a method set up combining most recent technologies and samples collected in non-invasively manner, including Paxgene whole blood tube, serum and plasma.

SUMMARY OF THE INVENTION

In the present invention, 1091 novel brain lncRNAs have been sequenced and identified for the first time in human postmortem brain tissue, in particular meditotemporal cortex of AD patients and cognitively intact healthy controls. Brain lncRNAs including novel brain lncRNAs with differential expression in the brain of AD patients when compared to the brain of healthy controls have been identified. Furthermore, new lncRNA signatures comprising the already sequenced and newly sequenced have been identified as differentially expressed in samples collected in non-invasively manner, including whole blood collected in Paxgene RNA tube and plasma derived from blood of patients suffering MCI, AD, DLB or FTD

when compared to healthy controls, as well as panels that detect specifically MCI and/or one of the dementia type (AD or DLB or FTD) when compared to the other dementia types studied. Furthermore, brain-enriched lncRNAs including novel brain-enriched lncRNAs have been identified. These brain-enriched lncRNAs include circulating lncRNAs detectable in the peripheral body fluids plasma and whole blood Paxgene RNA samples.

In an aspect, the lncRNAs including novel lncRNAs identified as having deficient expression in AD brain represent novel therapeutic candidates for development as lncRNA molecule-enhancing therapeutic approaches, and the novel brain lncRNAs identified as having an over expression in AD brain represent novel therapeutic candidates for development as lncRNA molecule-silencing therapeutic approaches, both for treatment of brain disorders in particular Alzheimer's disease and other cognitive disorders.

In another aspect, the plasma and whole blood lncRNAs panels, identified as differentially expressed in patients suffering cognitive disorders are potential therapeutic targets and/or biomarkers for the prediction and/or the diagnosis and/or the differential diagnosis of brain disorders, in particular cognitive disorders in a subject at risk to develop AD, FTD, DLB and/or another cognitive disorder or dementia type.

In another aspect, the brain-enriched lncRNAs panels identified represent therapeutic and diagnostic targets for brain disorders, including but not limited to cognitive disorders such as MCI, AD, FTD, DLB.

The novel lncRNAs, the newly identified brain-enriched lncRNAs panels we called BrainLinc, the new lncRNAs panels identified as differentially expressed in the peripheral body fluids including the common to brain and plasma (or to brain and blood) lncRNAs identified can be quantified in the peripheral samples of patients using the innovative Celemics technology with significantly higher sensitivity, precision and/or accuracy that would not have been realized using other currently existing technologies. Monitoring of large number of lncRNAs targets by Cemelics and for quantification of small number of lncRNAs by qPCR and Quantamatrix are preferred methods to other existing methods such as NGS and HTG.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows the expression level of lncRNA candidates lnc-TPPP-1:2, lnc-TMEM185B-12:7, lnc-NAXD-6:5 and lnc-HECA-6:1 on human serum samples from patients with early to moderate Alzheimer (AD) and age-matched healthy controls. Y axis: mean +/- standard error of the mean of concentration of the lncRNAs in CPM (count per million). X axis: AD: Alzheimer patient group, HV: Healthy control group.

Figure 2 shows Volcano plot of the comparison. The volcano plot shows the serum 1008 lncRNAs that are differentially expressed in AD group versus HV (healthy control) group

with statistically significance ($p<0.05$) above the line. 33 lncRNAs show both p value of <0.05 and fold change of ≥ 2 or ≤ 0.5. The lncRNAs that are differentially expressed but do not reach a statistically significance are shown below the line.

Figure 3 shows a predictive modelling based on the random forest algorithm enabling the identification of the signature of the 13-top ranked serum lncRNAs candidates selected out of 19867 lncRNAs.

Figure 4 shows a predictive modelling based on the random forest algorithm enabling the identification of the signature of the 7-top ranked serum lncRNAs candidates out of 90 lncRNAs with a p value of <0.05 and fold change of ≥ 2 or ≤ 0.5 or an AUC of ≥ 0.85 or ≤ 0.15.

Figure 5 shows a predictive modelling based on the random forest algorithm enabling identification of the signature of the 12 top serum lncRNAs candidates selected out of the 90 lncRNAs (with a p value of <0.05 and fold change of $\geq 1,6$ or ≤ 0.6 and an AUC of ≥ 0.85 or ≤ 0.15.

Figure 6 shows a predictive modelling based on the random forest algorithm enabling identification of the signature of the 3 top serum lncRNA candidates selected out of the lncRNAs with a p value of <0.05 and a good correlation (Pearson) with scores of neurocognitive tests including MMSE and/or MoCA out of 7 neuropsychological tests performed.

Figure 7 shows a predictive modelling based on the random forest algorithm enabling the identification of the signature of the 7 top lncRNA candidates selected out of serum lncRNAs with a p value of <0.05 and a good correlation (Pearson) with neuroimaging scores (volume of brain structures of relevance for cognition and memory such as the mediotemporal area, left and right hippocampus, left and right amygdala, entorhinal cortex out of more than 120 structures measured.

Figure 8 shows a predictive modelling based on the random forest algorithm enabling the identification of the signature of the 18 top serum lncRNA candidates selected out of lncRNAs that show a p value of <0.05 and a good correlation (Pearson) with CSF biomarkers Aβ42 and tau (total tau or phosphorylated tau).

Figure 9 shows examples of results on correlation between the level of serum lncRNAs and the volumetric neuroimaging score of brain structures implicated in cognition such as the mediotemporal area and the hippocampus.

Figure 10 shows examples of results on correlation between serum lncRNAs and CSF biomarkers Aβ42 or Tau.

Figure 11 shows the scheme of identifying brain and plasma lncRNAs.

Figure 12 shows the scheme of identifying brain and blood (Paxgene RNA) lncRNAs.

Figure 13 shows Volcano plot of plasma lncRNAs obtained when comparing 6 Alzheimer's patients (AD) and 6 healthy control subjects (HC) and boxplot of plasma lncRNA LRRC10-1:1 and and its ROC curve showing its AUC=1. The volcano plot shows the lncRNAs

that are differentially expressed with statistically significance ($p < 0.05$, Wilcoxon test) above the line. The lncRNAs that are differentially expressed but did not reach a statistically significance, are shown below the line.

Figure 14 shows example of 3 brain lncRNAs differentially expressed in the brain of 5 Alzheimer's patients as compared to brain of 5 healthy control subjects that are also identified as circulating plasma lncRNAs and as differentially expressed candidates in plasma of 6 Alzheimer patients as compared to 6 healthy control subjects.

Figure 15 shows boxplots of 2 whole blood lncRNAs: one overexpressed, the other down- expressed in MCI group and dementia groups (AD, DLB, FTD) when compared to healthy control group.

Figure 16 shows boxplots of 2 whole blood lncRNAs differentially expressed in at least one of the patient groups as compared to healthy control group. The lncRNA TCONS_00035093 shows decreased expression in all MCI patients as compared to healthy controls. The lncRNA TTC21B-AS1:2 shows increased expression in most patients with MCI and AD patients.

Figure 17 shows an example of a panel of whole blood lncRNAs discriminating between HC group versus all the other groups with an accuracy 93.4%.

Figure 18 shows targeted sequencing approach which shows a better efficiency to quantify precisely the selected lncRNAs. As an example, the use of FIMICS show an enrichment of 60X of the sequence of interest, representing less than 1% of the total sequences in global sequencing giving more difficult results to analyze. Only 8M of reads were needed to achieve a coverage of 100X allowing higher precision that regular RNA-Seq experiments.

Figure 19 shows Heat map showing that many identified brain-enriched lncRNAs that are expressed in the brain of AD and/or non-AD human subjects (columns 1,2) but not or poorly expressed in the organs tested (columns 2 to 13).Interestingly out of these brain-enriched lncRNAs, some are circulating brain-enriched lncRNAs as expressed in the plasma. 1: AD brain; 2: Non-AD brain; 3: Lung; 4: Ovary; 5: Colon; 6: Prostate; 7: Breast; 8: Liver; 9: Bladder; 10: Kidney; 11: Skin; 12: Heart; 13: Muscle; 14: Plasma.

DESCRIPTION OF THE INVENTION

lncRNAs, including the 1091 novel lncRNAs identified for the first time in the present invention, that are disclosed in this disclosure may be involved in the pathogenesis of primary and secondary brain disorders including but not limited to neurodegenerative diseases, in particular Alzheimer's disease and cognitive disorders, neuropsychiatric disorders such as depression and anxiety, autism, neurological disorders such as multiple sclerosis, motoneuron

disorders, stroke or implicated in systemic disorders, cardiovascular metabolic disorders indirectly involving the nervous system. Thus, these lncRNAs with altered expression represent novel targets for therapeutic and diagnostic applications. The novel brain lncRNAs identified as having an altered expression in AD brain may represent novel therapeutic candidates for development as lncRNA molecule-silencing therapeutic approaches for treatment of brain disorders in particular Alzheimer's disease and other cognitive disorders.

In addition, drug candidates or other medicinal products may induce cerebral toxicities such as autism or other syndromes. The lncRNAs identified in the present invention might be used to diagnose, predict or monitor their toxicity or efficacy.

In an aspect, the invention relates to lncRNAs for use in the treatment of brain diseases, in particular mild cognitive impairment (MCI) and Alzheimer or another cognitive disorder in a subject at risk of having or developing mild cognitive impairment or a cognitive disorder, wherein the treatment comprises administering to the subject an effective amount of a pharmaceutical agent modulating (inducing or inhibiting) the expression of the lncRNAs in the brain and/or in the periphery. The pharmaceutical agents may be specifically designed molecules such as small chemical entities or biological medicinal compounds, including but not limited to monoclonal antibodies, recombinant proteins, recombinant vector driven-therapeutics including but not limited to AV or AAV recombinant vectors, other RNA-related therapeutic means. In some embodiments, the pharmaceutical agent is administered to the subject with at least one pharmaceutically acceptable excipient. In some embodiments, the pharmaceutical agent is single or repeatedly administered to the subject as an oral, intravenous or subcutaneous or intra-cerebral treatment.

In some embodiments, the lncRNAs for use in the treatment of brain diseases are at least one novel lncRNA identified for the first time in the present invention (1091 novel lncRNAs listed in Table 7). In some embodiments, the lncRNAs are at least one novel lncRNA selected from 922 lncRNAs (430 lncRNAs with Fold change<0.9 and 492 lncRNAs with Fold change >1.1 listed in Table 7). In a preferred embodiment, the lncRNAs are at least one lncRNAs selected from the below group, which is referred as "lncRNA signature 12" in this disclosure:

Novel lncRNA	TCONS_00033653	TCONS_00023309	TCONS_00023401
TCONS_00050539	TCONS_00040878	TCONS_00027765	TCONS_00066358
TCONS_00062555	TCONS_00000634	TCONS_00062602	TCONS_00062306
TCONS_00024916	TCONS_00050178	TCONS_00005325	TCONS_00027438
TCONS_00059198	TCONS_00055496	TCONS_00011974	
TCONS_00066462	TCONS_00033736	TCONS_00023240	

In some embodiments, the lncRNAs for use in the treatment of brain diseases are at least one LINCipedia-based lncRNAs that are sequenced in the brain and identified by the present invention to be differentially deficient or overexpressed in Alzheimer or dementia brain as compared to healthy control brain. In some embodiments, the lncRNAs are at least one lncRNAs selected from 681 lncRNAs with decreased level of expression in AD brain and 521 lncRNAs overexpressed in AD brain listed in Table 8. In a preferred embodiment, the lncRNAs are at least one lncRNAs selected from the below group, which is referred as “lncRNA signature 13” in this disclosure:

lncRNA	lnc-PMM2-6:2	
LINC-PINT:16	MALAT1:23	lnc-LTBP3-2:3
lnc-ATP6V1C1-12:1	MALAT1:48	MALAT1:11
lnc-GABBR1-1:2	lnc-LTBP3-2:6	lnc-LTBP3-2:2

In another embodiment, the lncRNAs are at least one lncRNAs selected from the below group, which is referred as “lncRNA signature 42” in this disclosure:

LncRNAs	lnc-FEM1B-4:1
lnc-NEK6-2:1	lnc-GNA14-3:1
lnc-PMM2-6:4	lnc-PINK1-2:1
UGDH-AS1:10	lnc-PRSS27-4:24
lnc-RMDN2-3:24	lnc-SLC25A3-7:1
lnc-EIF1AD-1:1	lnc-FEM1B-4:1
lnc-FANCL-4:1	NORAD:2
lnc-FAAP100-2:1	NORAD:8
TCONS_00011974	CACTIN-AS1:5

In some embodiments, the lncRNAs for use in the treatment of brain diseases are at least one brain-enriched lncRNAs identified as detectable in the brain while not expressed or at least 2-fold less expressed in peripheral organ biopsies: lung, ovary, colon, prostate, breast, liver, bladder, kidney, skin, heart, muscle. In some embodiments, the lncRNAs are at least one lncRNAs selected from 860 lncRNAs listed in Table 12. In a preferred embodiment, the lncRNAs are at least one lncRNAs selected from the below group, which is referred as “lncRNA signature 14” in this disclosure:

TCONS_00035022	TCONS_00035024	lnc-ENC1-5:1
TCONS_00035023	TCONS_00035091	lnc-SNAP25-3:1
TCONS_00035094	TCONS_00012059	lnc-HMGA1-2:4
TCONS_00035093	TCONS_00035092	PEG3-AS1:1
TCONS_00035021	TCONS_00012060	lnc-UNC80-1:1
TCONS_00035090	TCONS_00050014	

In some embodiments, the lncRNAs for use in the treatment of brain diseases are at least one lncRNA selected from a lncRNA signature selected from lncRNA signatures 1 to 42. lncRNA signatures 1 to 42 are defined below in this disclosure.

In an aspect, the invention relates to lncRNA signatures for use in the diagnosis of brain diseases, in particular mild cognitive impairment (MCI) and Alzheimer or another cognitive disorder or for use in the diagnosis and differential diagnosis for brain disorders types, in particular dementia types, including but not limited to Alzheimer, dementia with Lewy bodies and frontotemporal dementia. lncRNA signatures comprising the already sequenced lncRNAs and newly sequenced lncRNAs that are differentially expressed in samples collected in non-invasively manner, including whole blood collected in Paxgene RNA tube and plasma derived from blood in patients suffering MCI, AD, DLB and/or FTD when compared to healthy controls, as well as panels that detect specifically MCI and one of the dementia type (AD or DLB or FTD) when compared to the other dementia types studied may be used. In some embodiments, the lncRNA signature is selected from the below group:

lncRNA signature	**lncRNAs included in the lncRNA signature**
lncRNA signature 1	68 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, LINC-PINT:16, lnc-ATP6V1C1-12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3,lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)
lncRNA signature 2	54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)

lncRNA signature 3	6 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-ZC3H12B-1:5)
lncRNA signature 4	11 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39)
lncRNA signature 5	43 lncRNAs (TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)
lncRNA signature 6	6 lncRNAs (TCONS_00045364, TCONS_00035023, TCONS_00035091,TCONS_00035022, TCONS_00035092, TCONS_00035093)
lncRNA signature 7	14 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, LINC-PINT:16, lnc-ATP6V1C1-12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3)
lncRNA signature 8	2 lncRNAs (TCONS_00035093, lnc-OCM-3:4)
lncRNA signature 9	7 lncRNAs (lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1)
lncRNA signature 10	6 lncRNAs (lnc-CA6-8:2, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1)
lncRNA signature 11	7 lncRNAs (lnc-CA6-8:2, lnc-CA6-8:1, RBM26-AS1:1, PCBP1-AS1:302, MIR181A2HG:1, TTC21B-AS1:2, lnc-SOCS6-10:1)
lncRNA signature 12	21 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, TCONS_00040878, TCONS_00000634, TCONS_00050178, TCONS_00055496, TCONS_00033736, TCONS_00023309, TCONS_00027765, TCONS_00062602, TCONS_00005325, TCONS_00011974, TCONS_00023240, TCONS_00023401, TCONS_00066358, TCONS_00062306, TCONS_00027438)
lncRNA signature 13	10 lncRNAs (LINC-PINT:16, lnc-ATP6V1C1-12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3, MALAT1:11, lnc-LTBP3-2:2)
lncRNA signature 14	17 lncRNAs (TCONS_00035022, TCONS_00035023, TCONS_00035094, TCONS_00035093, TCONS_00035021, TCONS_00035090, TCONS_00035024, TCONS_00035091, TCONS_00012059, TCONS_00035092, TCONS_00012060, TCONS_00050014, lnc-ENC1-5:1, lnc-SNAP25-3:1, lnc-HMGA1-2:4, PEG3-AS1:1, lnc-UNC80-1:1)

lncRNA signature 15	2 lncRNAs (lnc-OCM-3:4, lnc-SLC35E3-8:1)
lncRNA signature 16	3 lncRNAs (lnc-ZCCHC13-4:1, PCBP1-AS1:302, lnc-NEMF-1:4)
lncRNA signature 17	6 lncRNAs (lnc-STAT3-1:2, lnc-NEMF-1:4, lnc-EPN2-3:2, lnc-SLC25A39-2:1, lnc-ARF6-1:1, lnc-CCNYL1-2:1)
lncRNA signature 18	5 lncRNAs (ANKRD44-IT1:1, APOBEC3B-AS1:2, ADAMTSL4-AS1:2, AGAP2-AS1:2, A1BG-AS1:14)
lncRNA signature 19	3 lncRNAs (LEF1-AS1:1, PCBP1-AS1:302, lnc-CA6-8:2)
lncRNA signature 20	5 lncRNAs (lnc-CGREF1-2:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, ZC3H12B-11:1)
lncRNA signature 21	3 lncRNAs (TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1)
lncRNA signature 22	3 lncRNAs (OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2)
lncRNA signature 23	11 lncRNAs (PCBP1-AS1:302, STARD7-AS1:5, lnc-NID1-4:4, RBM26-AS1:1, LEF1-AS1:1, lnc-CA6-8:1, lnc-CA6-8:2, lnc-OCM-3:4, lnc-AFG1L-7:1, lnc-LASP1-5:1, lnc-GCGR-1:2)
lncRNA signature 24	7 lncRNAs (lnc-CA6-8:2, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, lnc-UXS1-3:1)
lncRNA signature 25	3 lncRNAs (lnc-OCM-3:4, lnc-SLC35E3-8:1, LINC-PINT:11)
lncRNA signature 26	2 lncRNAs (lnc-ZCCHC13-4:1, PCBP1-AS1:302)
lncRNA signature 27	5 lncRNAs (lnc-JUNB-1:1, lnc-RARB-4:1, lnc-ZNF284-1:1, TCONS_00035093, lnc-TELO2-3:3)
lncRNA signature 28	5 lncRNAs (lnc-CGREF1-2:1 PSMB8-AS1:14 lnc-STX10-2:1 lnc-TCFL5-6:1 lnc-ZC3H12B-11:1)
lncRNA signature 29	13 lncRNAs (lnc-DLG5-1:1, lnc-EBLN1-1:4, lnc-FAT1-7:2, lnc-PRR5-5:1, lnc-RBKS-6:1, lnc-FOXD4L5-35:1, lnc-TENM3-3:3, lnc-FAM133B-2:1, lnc-ZNF726-1:3, lnc-AP3M1-1:1, lnc-DUSP10-6:1, lnc-TPPP-1:2, LINC01206:20)
lncRNA signature 30	7 lncRNAs (LINC02345:11, lnc-EBLN1-1:4, lnc-TPPP-1:2, lnc-TENM3-3:3, lnc-FAT1-7:2, lnc-DKK1-5:3, lnc-TACSTD2-2:4)
lncRNA signature 31	12 lnc RNAs (lnc-TPPP-1:2, ARRDC3-AS1:7, lnc-TENM3-3:5, lnc-TENM3-3:4, lnc-QRFP-5:1, lnc-CRYBB1-1:1, lnc-MGST3-1:3, lnc-FAM49B-8:1, HAND2-AS1:70, lnc-TMEM185B-12:7, lnc-CNDP1-7:1, lnc-C21orf58-1:2)
lncRNA signature 32	3 lncRNAs (lnc-TENM3-3:3, lnc-MARCH4-2:7, and lnc-LRRC1-5:2)
lncRNA signature 33	7 lncRNAs (lnc-TPPP-1:2, lnc-TENM3-3:3, lnc-TMEM185B-12:7, lnc-NAXD-6:5, lnc-HECA-6:1, lnc-COMMD6-10:1, and MIR29B2CHG:46)
lncRNA signature 34	18 lncRNAs (lnc-TPPP-1:2, LINC02345:11, lnc-ZNF273-4:4, lnc-TACC2-8:6, LINC01206:20, lnc-C5orf67-3:1, HAND2-AS1:58, lnc-PRDM9-20:1, lnc-CLK1-1:7, lnc-DNALI1-5:4, RORB-AS1:6, lnc-TPPP-1:3, lnc-BMS1-2:1, lnc-ADRB1-4:1, lnc-XXYLT1-5:1, MIR99AHG:104, LINC01748:17, lnc-AKR1E2-15:1)
lncRNA signature 35	922 lncRNAs (430 lncRNAs with Fold change<0.9 and 492 lncRNAs with Fold change >1.1 listed in Table 7)

lncRNA signature 36	681 lncRNAs with decreased level of expression in AD brain and 521 lncRNAs overexpressed in AD brain listed in Table 8
lncRNA signature 37	860 lncRNAs listed in Table 12
lncRNA signature 38	410 lncRNAs listed in Table 9
lncRNA signature 39	2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11
lncRNA signature 40	410 lncRNAs listed in Table 9, 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11
lncRNA signature 41	lncRNA signature 6 plus 8 lncRNAs listed in both Tables 9 and 12 or 55 lncRNAs listed in both Table 10 or 11 and Table 12
lncRNA signature 42	17 lncRNAs (lnc-NEK6-2:1, lnc-PMM2-6:4, UGDH-AS1:10, lnc-RMDN2-3:24, lnc-EIF1AD-1:1, lnc-FANCL-4:1, lnc-FAAP100-2:1, TCONS_00011974, lnc-FEM1B-4:1, lnc-GNA14-3:1, lnc-PINK1-2:1, lnc-PRSS27-4:24, lnc-SLC25A3-7:1, lnc-FEM1B-4:1, NORAD:2, NORAD:8, CACTIN-AS1:5)

The above 42 lncRNA signatures can be used in all methods or uses disclosed in this disclosure.

In an aspect, the invention relates to a method for the diagnosis of a brain disorder including but not limited to cognitive disorder such as mild cognitive impairment (MCI), Alzheimer disease, frontotemporal dementia and/or dementia with Lewy body in a subject at risk of having or developing mild cognitive impairment or a cognitive disorder, comprising:

(a) isolating a biological sample from the subject;

(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from lncRNAs listed in Tables 7-12, in the biological sample from said subject;

(c) comparing the level of expression of lncRNA in the sample to a level of expression in a reference,

wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

In some embodiments, the method further comprises a step of designing the therapeutic treatment according to the said identified brain disorder such as a cognitive disorder after step (c). In some embodiments, the biological sample is whole blood, serum or plasma.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from lncRNA signature 6 plus 8 lncRNAs listed in both Tables 9 and 12 or 55 lncRNAs listed in both Table 10 or 11 and Table 12 ("lncRNA signature 41"). In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from brain-enriched lncRNAs circulating in plasma sample including novel brain-enriched lncRNAs circulating in plasma. In some embodiments, the lncRNA signature comprises or

consist of at least one lncRNA selected from 6 lncRNAs (TCONS_00045364, TCONS_00035023, TCONS_00035091, TCONS_00035022, TCONS_00035092, TCONS_00035093) ("lncRNA signature 6"). In some embodiments, the lncRNA signature is or comprises lncRNA signature 6.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 410 lncRNAs listed in Table 9, 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11 ("lncRNA signature 40"). In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)("lncRNA signature 2"). In some embodiments, the lncRNA signature is or comprises lncRNA signature 2.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from a lncRNA signature selected from lncRNA signatures 1 to 42. In some embodiments, the lncRNA signature is or comprises a lncRNA signature selected from lncRNA signatures 1 to 42.

In an aspect, the invention relates to a method for the diagnosis of a brain disorder including but not limited to cognitive disorder such as mild cognitive impairment (MCI), Alzheimer disease, frontotemporal dementia and/or dementia with Lewy body in a subject at risk of having or developing mild cognitive impairment or a cognitive disorder, comprising:
(a) isolating a biological sample from the subject, wherein the biological sample is plasma;
(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from 410 plasma lncRNAs listed in Table 9 ("lncRNA signature 38"), in the biological sample from said subject;
(c) comparing the level of expression of lncRNA in the sample to a level of expression in a reference,

wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

In some embodiments, the method further comprises a step of designing the therapeutic treatment according to the said identified brain disorder such as a cognitive disorder after step (c).

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 6 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-ZC3H12B-1:5) "lncRNA signature 3". In a preferred embodiment, the lncRNA signature is or comprises lncRNA signature 3.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 11 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39)) "lncRNA signature 4". In a preferred embodiment, the lncRNA signature is or comprises lncRNA signature 4.

In an aspect, the invention relates to a method for the diagnosis of a brain disorder including but not limited to cognitive disorder such as mild cognitive impairment (MCI), Alzheimer disease, frontotemporal dementia and/or dementia with Lewy body in a subject at risk of having or developing mild cognitive impairment or a cognitive disorder, comprising:
(a) isolating a biological sample from the subject, wherein the biological sample is whole blood;
(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11 ("lncRNA signature 39"), in the biological sample from said subject;
(c) comparing the level of expression of lncRNA in the sample to a level of expression in a reference,
wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

In some embodiments, the method further comprises a step of designing the therapeutic treatment according to the said identified brain disorder such as a cognitive disorder after step (c).

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 43 lncRNAs (TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-

FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2) ("lncRNA signature 5"). In a preferred embodiment, the lncRNA signature is or comprises lncRNA signature 5.

In an aspect, the invention relates to a method for the diagnosis of a brain disorder including but not limited to cognitive disorder such as mild cognitive impairment (MCI), Alzheimer disease, frontotemporal dementia and/or dementia with Lewy body in a subject at risk of having or developing mild cognitive impairment or a cognitive disorder, comprising:
(a) isolating two or more biological samples (such as both plasma and whole blood) from the subject;
(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from 410 lncRNAs listed in Table 9, 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11 ("lncRNA signature 40"), in the biological samples from said subject;
(c) comparing the level of expression of lncRNA in the sample to a level of expression in a reference,
wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

In some embodiments, the method further comprises a step of designing the therapeutic treatment according to the said identified brain disorder such as a cognitive disorder after step (c). In some embodiments, the two or more biological samples are plasma and whole blood.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)("lncRNA signature 2"). In some embodiments, the lncRNA signature is or comprises lncRNA signature 2.

In an aspect, the invention also relates to a method for diagnosis and differential diagnosis for brain disorders types, in particular dementia types, including but not limited to Alzheimer, dementia with Lewy bodies and frontotemporal dementia in a subject suffering from a brain disorder such as loss or impairment of cognitive function or dementia of subtype to be diagnosed, said method comprising :

(a) isolating two or more biological samples (such as both plasma and whole blood) from the subject;

(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected 410 lncRNAs listed in Table 9, 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11 ("lncRNA signature 40"), in the biological samples from said subject;

(c) comparing the level of expression of lncRNA in the sample to a level of expression in a reference,

wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

In some embodiments, the method further comprises a step of designing the therapeutic treatment according to the said identified brain disorder such as a cognitive disorder after step (c). In some embodiments, the biological sample is plasma or whole blood.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)("lncRNA signature 2"). In some embodiments, the lncRNA signature is or comprises lncRNA signature 2.

In an aspect, the invention relates to a method for monitoring the development or progression of brain disorders including but not limited to cognitive disorder such as mild cognitive impairment, Alzheimer disease, dementia with Lewy bodies frontotemporal dementia

in a subject suffering from a brain disorder including loss or impairment of cognitive function or dementia, said method comprising the following steps:

(a) isolating a biological sample from the subject;

(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from 410 lncRNAs listed in Table 9, 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11 ("lncRNA signature 40"), in the biological sample from said subject;

(c) comparing the level of expression of lncRNA in the sample to a level of expression in a reference,

wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

In some embodiments, the method further comprises a step of designing the therapeutic treatment according to the said identified brain disorder such as a cognitive disorder after step (c). In some embodiments, the biological sample is plasma or whole blood.

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)("lncRNA signature 2"). In some embodiments, the lncRNA signature is or comprises lncRNA signature 2.

A biological sample may be a small part of a subject obtained from a body fluid, e.g. blood, plasma, serum, saliva, urine, tear or cerebrospinal fluid or organ tissue. Suitably the biological sample are plasma or serum or whole blood (Paxgene-RNA-tube).

By brain disorder is meant e.g. a cognitive disorder such as a dementia type, a neurodegenerative disease, neurological or neuropsychatric disorder or systemic disorder involving the brain from the below example of brain disease list):

Dementia types and subtypes are numerous and include e.g.

Alzheimer (AD) and MCI of AD type

Frontotemporal dementia (FTD) and MCI of FTD type
Progressive supranuclear palsy (PSP)
Corticobasal degeneration (CBD)
Dementia with Lewy body (DLB) and MCI of DLB type
Parkinson's disease dementia (PDD) and MCI of PDD type
Vascular dementia and related MCI
Stroke-related MCI and dementia
Other dementia types,

Neurodegenerative and neurological and neuropsychiatric disorders with a cognitive impairment often occurring early or at later stages of the disease progression:

Parkinson disease
Huntington disease
Autism
Amyotrophic lateral sclerosis
Motoneuron diseases
Multiple sclerosis
Neuropathies
Major depressive disorder
Anxiety

Systemic disorders with brain involvement and negative impact on the brain health such as brain cognitive impairment, including metabolic disorders such as diabetes, cardiovascular such as stroke, autoimmune and inflammatory disorders.

For diagnosis of brain disorder including cognitive impairment or dementia:

The "reference" may be suitable control sample such as for example a sample from a normal, healthy subject having no brain disorder or cognitive impairment symptoms and no abnormal neuroimaging findings and being age-matched to the patient to be diagnosed with the method of the present invention. The reference may be a sample from the same subject prior to demonstration of disorder or disease symptoms or prior to diagnosis of the brain disorder or the impairment or loss of cognitive function or dementia. The reference may be a standardized sample, e.g. a sample comprising material or data from several samples of healthy subjects who have no brain or cognitive impairment symptoms and no abnormal neuroimaging findings.

For therapeutics, diagnosis or differential diagnosis of a specific dementia type or its mild cognitive impairment (MCI) versus other dementia types and their MCI:

Brain disorders and subtypes are numerous and include cognitive disorders with dementia types and subtypes:

Dementia types and subtypes are numerous and include e.g.

Alzheimer (AD) and MCI of AD type

Frontotemporal dementia (FTD) and MCI of FTD type

Progressive supranuclear palsy (PSP)

Corticobasal degeneration (CBD)

Dementia with Lewy body (DLB) and MCI of DLB type

Parkinson's disease dementia (PDD) and MCI of PDD type

Vascular dementia and related MCI

Stroke-related MCI and dementia

Other dementia types,

Neurodegenerative and neurological and neuropsychiatric disorders with a cognitive impairment often occurring early or at later stages of the disease progression:

Parkinson disease

Huntington disease

Amyotrophic lateral sclerosis

Autism Multiple sclerosis

Motoneuron diseases

Neuropathies

Major depressive disorder

Anxiety

Systemic disorders with brain involvement and negative impact on the brain health such as brain cognitive impairment, including metabolic disorders such as diabetes, cardiovascular such as stroke, autoimmune and inflammatory disorders.

For differential diagnosis of one brain disorder the reference sample may be sample(s) from patient(s) suffering another brain disorder of the same class of disorders (for example for differential diagnosis of a dementia subtype, the reference sample may be sample(s) from patient(s) suffering dementia of other type(s)). and/or to reference value obtained on samples from subject(s) who may suffer another disease but have no symptom similar to the targeted brain disorder (for example for differential diagnosis of a dementia, reference sample(s) may be from a patient having no cognitive impairment or dementia).

The invention also relates to a method of diagnosing a brain disorder including but not limited to cognitive disorder such as Alzheimer disease, frontotemporal dementia, dementia with Lewy bodies and monitoring its development or progression in a subject suffering from progressive impairment or loss of cognitive function or dementia, comprising:

(a) determining the presence of a brain disorder such as a cognitive disorder using a biological sample of the said subject using a method according to the invention, and
(b) adapting a therapeutic treatment in function of the results of step (a).

The invention also relates to a method of diagnosing a brain disorder including but not limited to cognitive disorder such early MCI and very mild Alzheimer disease in a subject with no apparent and/or no measurable symptoms when using the available methods to detect clinical symptoms (such as MMSE, MoCA and other neurocognitive tests for cognitive disorder), but with abnormal changes of biomarkers of the present invention preceding the symptoms, comprising:
(a) determining the risk of developing a cognitive disorder using a biological sample of the said subject using a method according to the invention, and
(b) adapting a therapeutic treatment in function of the results of step (a).

The invention also relates to a method of future improved diagnosing a brain disorder including but not limited to a cognitive disorder such as early MCI and very mild Alzheimer disease in a subject by measuring the biomarkers of the present invention in combination with risk factors, such as genotypes including but not limited to ApoE gene alleles, cardiovascular, metabolic, inflammatory biomarkers, comprising:
(a) determining the risk of developing a cognitive disorder using a biological sample of the said subject using a method according to the invention in combination with one of the above-mentioned risk factors, and
(b) adapting a therapeutic treatment in function of the results of step (a).

The invention further relates to a method of predictive diagnosing a brain disorder including but not limited to a cognitive disorder such as early MCI and early stages of Alzheimer disease or frontotemporal dementia or dementia with Lewy bodies in a subject with no apparent and/or no measurable abnormality by neuroimaging methods as MRI and/or CT scans, comprising:
(a) determining the risk of developing a cognitive disorder using a biological sample of the said subject using a method according to the invention, and
(b) adapting a therapeutic treatment in function of the results of step (a).

The invention further relates to a method of predictive diagnosing a cognitive disorder including but not limited to early MCI and early stages of Alzheimer disease or frontotemporal dementia or dementia with Lewy bodies in a subject with no apparent and/or no measurable abnormality by molecular neuroimaging methods, such as but not limited to amyloid or tau or dopaminergic or synucleinergic PET scan, comprising:
(a) determining the risk of developing a cognitive disorder using a biological sample of the said subject using a method according to the invention, and
(b) adapting a therapeutic treatment in function of the results of step (a).

The invention further relates to a method of diagnosing or differential diagnosing or monitoring a cognitive disorder including but not limited to early MCI and early stages of Alzheimer disease or frontotemporal dementia or dementia with Lewy bodies in a subject using combination(s) of biomarkers of the present invention with a neuroimaging method including molecular neuroimaging methods, comprising:
(a) determining the risk of developing a cognitive disorder using a biological sample of the said subject using a method according to the invention, and
(b) adapting a therapeutic treatment in function of the results of step (a).

The invention also relates to a method for treating a subject suffering from a progressive impairment or loss of cognitive function or dementia, said method comprising:
(a) diagnosing the cognitive disorder associated to the progressive impairment or loss of cognitive function or dementia in said patient using the method according to the invention, and
(b) adapting the therapeutic treatment to the results obtained in step (a).
Examples of therapeutic treatment of cognitive disorders may comprise the administration of:

- a drug already approved for treatment of brain disorder
    - for example, for a drug already approved for treatment of Alzheimer's disease, among cholinesterase inhibitors, donenepezil, rivastigmine or galantamine, or a NMDA receptor antagonist, memantine, or a combination of, e.g. donepezil and memantine, and/or
- a therapeutic candidate or combination under clinical development
    - for example as currently tested in Alzheimer patients in the anti-amyloid field, e.g. beta-secretase inhibitors and anti-beta-amyloid monoclonal antibodies, and anti-tau approaches, or as currently tested in the anti-tau field, e.g. modulators of kinases or phosphatases that regulate tau phosphorylation status and anti-tau antibodies, drug and drug candidates modulating the molecular pathways of neurodegeneration, oxidative stress, autophagy, mitochondrial dysfunction and immuno-inflammation, and/or
- a novel therapeutic approach derived from the present invention.

In an aspect, the invention also provides a kit for diagnosing and/or monitoring a brain disorder including but not limited to cognitive disorders such as MCI, AD, FTD, DLB, comprising at least one reagent for the determination of a lncRNA expression profile comprising or consisting of at least one lncRNA selected from 410 lncRNAs listed in Table 9, 2847 lncRNAs listed in Table 10 and 136 lncRNAs listed in Table 11 ("lncRNA signature 40"). In some embodiments, the lncRNA expression profile comprises or consist of at least one lncRNA selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-

ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)("lncRNA signature 2"). In some embodiments, the lncRNA expression profile comprises or consist of at least one lncRNA selected from a lncRNA signature selected from lncRNA signatures 1 to 42. In some embodiments, the lncRNA expression profile comprises or consists of a lncRNA signature selected from lncRNA signatures 1 to 42. In some embodiments, the lncRNA expression profile is or comprises lncRNA signature 2.

The kit of the invention allows performing the measurement of the lncRNA signature of the invention, wherein the kit comprises at least one reagent for measuring at least one lncRNA selected from the lncRNAs as indicated above.

By "reagent" is also meant a reagent which specifically allows the determination of the lncRNA expression profile, i.e. a reagent specifically intended for the specific determination of the expression level of the lncRNA present in the lncRNA expression profile. Examples include e.g. amplification primer pairs (forward and reward) and/or probes specific for the lncRNA present in the lncRNA expression profile. This definition excludes generic reagents useful for the determination of the expression level of any other lncRNA.

In some embodiments, the kit for diagnosing and/or monitoring a brain disorder including but not limited to cognitive disorders such as MCI, AD, FTD, DLB comprises one or more oligonucleotide probes specific for lncRNAs of interest and a reagent for purifying the probe-target nucleic acid complexes. The oligonucleotide probes comprise a sequence complementary to a region of the lncRNAs of interest. The oligonucleotide probes may be DNA or RNA. The oligonucleotide probes are preferably DNA. The length of oligonucleotide probes specific for lncRNAs may be from 30 to 80 nucleotides, e.g., from 40 to 70, from 40 to 60, or about 50 nucleotides. In a preferred embodiment, the oligonucleotide probes are biotinylated and the reagent for purifying the probe-target complexes is a streptavidin-coated substrate, e.g, a streptavidin-coated magnetic particle, e.g., T1 streptavidin coated magnetic bead.

A further embodiment of the invention relates to a targeted sequencing panel for next generation sequencing, comprising nucleic acids specific for at least one lncRNA selected from 68 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, LINC-PINT:16, lnc-ATP6V1C1-

12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3,lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2) ("lncRNA signature 1"). In some embodiments, the at least one lncRNA is selected from a lncRNA signature selected from lncRNA signatures 1 to 42. In some embodiments, the at least one lncRNA comprises or consists of a lncRNA signature selected from lncRNA signatures 1 to 42. In a preferred embodiment, the at least one lncRNA is or comprises lncRNA signature 1.

The invention also relates to the applications of the method for development of new therapeutic strategies (drug candidates) tested in clinical trials for the treatment of a brain disorder including but not limited to a cognitive disorder such as Alzheimer disease, dementia with lewy bodies, frontotemporal dementia wherein the method can be used (a) before starting the treatment for the selection of patients who would then be recruited in clinical trial; thus the test will enhance the likelihood for treating patient population that benefits from the tested therapeutic strategy(ies) while avoiding recruitment of patient subpopulation patients who do not benefit from this tested new drug candidate(s) and/or (b) for monitoring the response(s) including efficacy of the tested therapeutic strategy(ies) once treatment with the new tested drug candidate starts.

In a further aspect, the invention also relates to methods of detection. For example, the invention contemplates a method for the detection of one or more lncRNAs. In one aspect the method comprises:

(a) isolating a biological sample from the subject;

(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from 68 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, LINC-PINT:16, lnc-ATP6V1C1-12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3,lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093,

lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2).

In some embodiments, the lncRNA signature comprises or consist of at least one lncRNA selected from a lncRNA signature selected from lncRNA signatures 1 to 42. In some embodiments, the lncRNA signature is or comprises a lncRNA signature selected from lncRNA signatures 1 to 42. In a preferred embodiment, the lncRNA signature is or comprises lncRNA signature 1.

The expression level of lncRNAs may be determined by any technology known by a man skilled in the art. In particular, the expression level of lncRNAs is determined by measuring the amount of nucleic acid transcripts of each lncRNAs. The amount of nucleic acid transcripts can be measured by any technology known by a man skilled in the art. The measure may be carried out directly on an extracted RNA sample or on retrotranscribed complementary DNA (cDNA) prepared from extracted RNA by technologies well-known in the art. From the RNA or cDNA sample, the amount of nucleic acid transcripts may be measured using any technology known by a man skilled in the art, including nucleic acid microarrays, quantitative PCR, sequencing (e.g., next generation sequencing), FIMAP quantification, and hybridization with a labeled probe.

In some embodiments, the expression level of lncRNAs is determined using sequencing, e.g., next generation sequencing. Sequencing may be carried out after converting extracted RNA to cDNA using reverse transcriptase or RNA molecules may be directly sequenced. In a particular embodiment, which should not be considered as limiting the scope of the invention, the measurement of the expression level using next generation sequencing may be performed as follows. Briefly, RNA is extracted from a sample (e.g., blood sample). After removing rRNA, RNA samples are then reverse transcribed into cDNA. To ensure strand specificity, single stranded cDNA is first synthetized using Super-Script II reverse transcriptase and random primers in the presence of Actinomycin D, and then converted to double stranded cDNA with the second strand marking mix that incorporates dUTP in place of dTTP. Resulting blunt ended cDNA are purified using AMPure XP magnetic beads. After a 3'end adenylation step, adaptor is attached to cDNA. So obtained cDNA (sequencing library) may be amplified by PCR. The sequencing libraries can be sequenced by any next generation sequencing technology known by a man skilled in the art.

In some embodiments, the measurement of the expression level of lncRNAs, e.g., by sequencing (e.g., next generation sequencing), is facilitated by capturing and enriching nucleic acids (RNA or cDNA) corresponding to ncRNAs of interest prior to the measurement. As used herein, enrichment refers to increasing the percentage of the nucleic acids of interest in the sample relative to the initial sample by selectively purifying the nucleic acids of interest. The enrichment of nucleic acids corresponding to lncRNAs of interest can be carried out on extracted RNA sample or cDNA sample prepared from extracted RNA. In some embodiments, nucleic acids corresponding to lncRNAs of interest are captured and enriched by hybridizing RNA or cDNA sample to oligonucleotide probes specific for lncRNAs of interest (e.g. oligonucleotide probes comprising a sequence complementary to a region of lncRNAs of interest) under conditions allowing for hybridization of the probes and target nucleic acids to form probe-target nucleic acid complexes. Probes may be DNA or RNA, preferably DNA. The length of probes specific for lncRNAs may be from 30 to 80 nucleotides, e.g., from 40 to 70, from 40 to 60, or about 50 nucleotides.The probe-target nucleic acid complexes can be purified by any technology known by a man skilled in the art. In a preferred embodiment, probes are biotinylated. The biotinylated probe-target nucleic acid complexes can be purified by using a streptavidin-coated substrate, e.g, a streptavidin-coated magnetic particle, e.g., T1 streptavidin coated magnetic bead.

In some embodiments, the expression level of lncRNAs may be determined using quantitative PCR. Quantitative, or real-time, PCR is a well known and easily available technology for those skilled in the art and does not need a precise description. In a particular embodiment, which should not be considered as limiting the scope of the invention, the determination of the expression profile using quantitative PCR may be performed as follows. Briefly, the real-time PCR reactions are carried out using the TaqMan Universal PCR Master Mix (Applied Biosystems). 6 µl cDNA is added to a 9 µl PCR mixture containing 7.5 µl TaqMan Universal PCR Master Mix, 0.75 µl of a 20X mixture of probe and primers and 0.75µl water. The reaction consists of one initiating step of 2 min at 50 deg. C, followed by 10 min at 95 deg. C, and 40 cycles of amplification including 15 sec at 95 deg. C and 1 min at 60 deg. C. The reaction and data acquisition can be performed using the ABI 7900HT Fast Real-Time PCR System (Applied Biosystems). The number of template transcript molecules in a sample is determined by recording the amplification cycle in the exponential phase (cycle threshold or C_Q or C_T), at which time the fluorescence signal can be detected above background fluorescence. Thus, the starting number of template transcript molecules is inversely related to C_T.

In some embodiments, the expression level of lncRNAs may be determined by the use of a nucleic acid microarray. A nucleic acid microarray consists of different nucleic acid probes that are attached to a substrate, which can be a microchip, a glass slide or a microsphere-

sized bead. A microchip may be constituted of polymers, plastics, resins, polysaccharides, silica or silica-based materials, carbon, metals, inorganic glasses, or nitrocellulose. Probes can be nucleic acids such as cDNAs ("cDNA microarray") or oligonucleotides ("oligonucleotide microarray"). To determine the expression profile of a target nucleic acid sample, said sample is labelled, contacted with the microarray in hybridization conditions, leading to the formation of complexes between target nucleic acids that are complementary to probe sequences attached to the microarray surface. The presence of labelled hybridized complexes is then detected. Many variants of the microarray hybridization technology are available to the man skilled in the art.

In some embodiments, the expression level of lncRNAs may be determined by FIMAP quantification. Briefly, lncRNAs are amplified by PCR using primers with the same sequences as for qPCR that are chemically modified. Forward primers are phosphorylated in 5' and Reverse primers biotinylated in 5'. PCR products are digested with exonuclease to eliminate the phosphorylated strand and keep only the biotinylated ones. Biotinylated PCR products are incubated with coded silica microdisks coated with oligos complementary to the RNAs of interest (one code per target oligo), and hybridized products are revealed by addition of a fluorescent streptavidin conjugate. The expression level of lncRNAs is determined by measuring fluorescence signal.

In a still further aspect, the method of detection contemplates the use of a reagent to measure or detect the one or more lncRNA. By "reagent" is meant a reagent that specifically allows the determination of the lncRNA expression profile, i.e. a reagent specifically intended for the specific determination of the expression level of the lncRNA present in the lncRNA expression profile. Examples include e.g. amplification primer pairs (forward and reward) and/or or the lncRNA present in the lncRNA expression profile. This definition excludes generic reagents useful for the determination of the expression level of any other lncRNA.

In yet a further aspect, the method of detection comprises detecting one or more lncRNA from a biological sample, wherein the biological sample is selected from blood, plasma, serum, urine, cerebrospinal fluid, tear, saliva. In some embodiments, the biological sample is blood.

By "treating" or "treatment" of a subject being at risk to develop or having a cognitive disorder, particularly a progressive impairment or loss of cognitive function or dementia, e.g. AD, FTD, DLB, is meant administering or administration of a regimen to the subject in need thereof such that at least one symptom of the disorder or disease is cured, alleviated, remedied or improved. According to the present invention, depending on the diagnosing results, the subject is submitted to an adapted therapeutic treatment and is further monitored. The monitoring of the subject based on the lncRNA signature of the invention allows to further adapt or modify the therapeutic treatment, e.g. increasing the drug amount, administering a

combination of drugs to obtain a synergy effect, or replacing the drug by an effective amount of another drug.

The invention also relates to the modification of a therapeutic strategy in subjects suffering from brain disorder such as a cognitive disorder who have been diagnosed and/or monitored using a method for (in vitro) diagnosis or monitoring of a progressive brain function such as impairment or loss of cognitive function or dementia according to the invention.
According to the invention, the lncRNAs of the invention may be used in combination with one or more biomarkers currently used for diagnosing a cognitive disorder including but not limited to MCI, AD, FTD, DLB. Examples of such biomarkers include without any limitation the biomarkers as disclosed in USP 9,377,472, USP 7,897,786 and in USP 6,703,212, PCT/EP2018/073905/PCT/EP2018/073905), the contents thereof being included herein by reference. The method of the invention combining the lncRNAs of the invention with one or more known biomarkers may allow enhanced accuracy of diagnosis; or differential diagnosis; and a more efficient and successful drug development, e.g. enhanced accuracy for patient stratification before recruitment in clinical trials and monitoring of the efficacy of approved therapies or novel drugs under development.

According to the invention, the lncRNAs of the invention may be used in combination with one or more tests currently used for diagnosing a cognitive disorder including but not limited to AD, FTD, DLB and/or for differential diagnostic purposes. Examples of such tests include without any limitation the neuropsychological tests, such as MMSE, MoCA, FCSRT tests, and the neuroimaging methods, in particular volumetric MRI and molecular neuroimaging PET methods using a ligand specific to amyloid, Tau, alpha-synucelin or other molecules to visualize in the brain a proteinopathy . The method of the invention combining the lncRNAs of the invention with one or more known biomarkers may allow enhanced accuracy of diagnosis; or differential diagnosis; and a more efficient and successful drug development, e.g. enhanced accuracy for patient stratification before recruitment in clinical trials and monitoring of the efficacy of approved therapies or novel drugs under development.

According to the invention, novel therapeutic approaches consisting in normalizing the expression and/or amount of the lncRNAs identified for the first time by the invention in the brain may be used as treatment (alone or in combination with existing and novel other therapies) of brain disorders characterized by an altered expression or amount of such novel lncRNAs identified by the invention.

According to the invention, the identified brain-enriched lncRNAs, the identified circulating lncRNAs in the plasma, serum, blood or another body fluid may be used for the design and development of novel therapeutic treatment and for diagnosis applications for brain disorders characterized by an altered expression or amount of such circulating lncRNAs identified by the invention.

According to the invention, the altered lncRNAs identified by the invention as differentially expressed in a brain disorder such as a cognitive disorder (MCI, AD, DLB and/or FTD) in the brain or in peripheral body fluids may be used for the design and development of novel therapeutic treatment and for diagnosis applications for brain disorders characterized by an altered expression or amount of such lncRNAs identified by the invention as differentially expressed in the brain or peripheral body fluids.

To identify lncRNA signatures involved specifically in the pathogenesis of AD and mild cognitive impairment (MCI) of AD type, a total of 127802 lncRNAs in samples from different groups, including a group of patients with AD or MCI of AD type and group of cognitively intact healthy controls with no brain imaging abnormalities, have been screened. Subsequently lncRNA profiling in all samples, 19867 lncRNAs have been detected above the threshold. By comparison of lncRNA-expression levels measured in the samples of the different groups, the lncRNA differentially expressed in the samples of the control group as compared to the expression level in the samples of patient group diagnosed as having AD or cognitive impairment of AD type (at the Neurology department of clinical sites, based on neurocognitive and neuropsychological tests and neuroimaging tests and on cerebrospinal fluid biomarkers: beta-amyloid peptide 1-42 (Aβ42) and tau (total and/or phosphorylated) were identified as lncRNA biomarker candidates.

Expression levels were analyzed using a two-tailed Welch t test and/or Wilcoxon Mann-Whitney test between two groups. Significant differential expression was identified as $p<0.05$. Fold change and AUC (Area Under the Curve) are calculated for each lncRNA and for each tested condition.

Serum lncRNA candidates were also selected when differential expression was determined based on fold-changes $\geq$ 1.6 (or $\leq$ 0.6) and/or an AUC $\geq$ 0.80 (or <0.20), are indicated in Tables 2 and 3.

Random Forest algorithm (Breimann 2001, Breiman and Cutler 2001) was used to build the model and also used to select the top lncRNAs. A predictive model based on the combination of the top 2-20 lncRNAs enables to predict the disease with an accuracy of $\geq$ 80%.

Out of the 127802 serum lncRNAs sequenced, 19867 lncRNAs were selected based on their threshold expression level for statistical analysis. The comparison of the AD patient with healthy control populations showed that 1008 lncRNAs are differentially expressed with a statistical significance (p value <0.05, Wilcoxon test) (Table 1). The sequences of these 1008 lncRNAs are shown in the sequence listing included in this application.

Table 1: The Sequence number, p value, mean +/- SD, fold change and AUC of the 1008 serum lncRNAs with differential expression in AD group versus healthy control group (p value <0.05, Wilcoxon test)

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
ADAMTS9-AS2:12	SEQ0397	0,02049	0,852	0,778	lnc-LMX1A-2:1	SEQ0708	0,03324	0,786	0,757
ADNP-AS1:12	SEQ0340	0,01727	0,809	0,785	lnc-LONP2-6:10	SEQ0280	0,01209	0,912	0,799
ADPGK-AS1:7	SEQ0858	0,0449	1,225	0,257	lnc-LRCH1-1:1	SEQ0437	0,02049	0,793	0,778
APTR:17	SEQ0260	0,01209	1,147	0,201	lnc-LRP12-4:3	SEQ0939	0,0449	1,165	0,257
ARF4-AS1:8	SEQ0859	0,0449	1,143	0,257	lnc-LRP5L-2:14	SEQ0940	0,0449	1,203	0,257
ARRDC3-AS1:7	SEQ0050	0,00232	0,441	0,854	lnc-LRR1-1:2	SEQ0813	0,03872	0,729	0,75
BISPR:24	SEQ0566	0,02842	0,579	0,764	lnc-LRR1-1:3	SEQ0814	0,03872	0,725	0,75
BLACAT1:3	SEQ0300	0,01449	1,717	0,208	lnc-LRRC1-5:2	SEQ0087	0,00364	0,649	0,84
BLACAT1:5	SEQ0341	0,01727	0,424	0,785	lnc-LRRC3B-1:3	SEQ0941	0,0449	0,463	0,743
CALML3-AS1:9	SEQ0136	0,00681	1,567	0,181	lnc-LRRC41-3:2	SEQ0942	0,0449	1,272	0,257
CASC15:51	SEQ0567	0,02842	1,273	0,236	lnc-LRRC4C-7:1	SEQ0815	0,03872	0,818	0,75
CASC20:2	SEQ0860	0,0449	0,765	0,743	lnc-LRRFIP2-3:4	SEQ0617	0,02842	0,74	0,764
CERS3-AS1:5	SEQ0301	0,01449	1,251	0,208	lnc-LRRK1-3:4	SEQ0242	0,01004	0,79	0,806
CFAP58-AS1:4	SEQ0109	0,00556	1,464	0,174	lnc-LRRK2-1:10	SEQ0369	0,01727	0,86	0,785
CLRN1-AS1:1	SEQ0475	0,02418	0,793	0,771	lnc-LRRK2-1:9	SEQ0370	0,01727	0,86	0,785
CPB2-AS1:18	SEQ0476	0,02418	0,682	0,771	lnc-LRRTM4-3:2	SEQ0618	0,02842	0,865	0,764
CYTOR:18	SEQ0062	0,00291	1,278	0,153	lnc-LY9-3:1	SEQ0207	0,00829	1,317	0,188
DARS-AS1:47	SEQ0178	0,00829	2,015	0,188	lnc-LYN-8:1	SEQ0619	0,02842	1,516	0,236
DDX11-AS1:5	SEQ0861	0,0449	1,256	0,257	lnc-MAFB-1:4	SEQ0525	0,02418	0,839	0,771
DLEU2:26	SEQ0862	0,0449	1,076	0,257	lnc-MAMDC2-1:1	SEQ0526	0,02418	0,828	0,771
DLEU2:45	SEQ0863	0,0449	0,882	0,743	lnc-MAML3-2:1	SEQ0438	0,02049	0,768	0,778
DLGAP2-AS1:18	SEQ0656	0,03324	0,789	0,757	lnc-MAN1A1-1:3	SEQ0158	0,00681	0,722	0,819
DPH6-AS1:3	SEQ0342	0,01727	2,004	0,215	lnc-MAP9-6:1	SEQ0281	0,01209	0,741	0,799
EGFR-AS1:4	SEQ0093	0,00451	0,81	0,833	lnc-MARCH4-2:7	SEQ0088	0,00364	2	0,16
EGOT:11	SEQ0110	0,00556	1,195	0,174	lnc-MARCKS-1:9	SEQ0527	0,02418	0,717	0,771
EIF3J-AS1:21	SEQ0261	0,01209	0,87	0,799	lnc-MASTL-2:1	SEQ0943	0,0449	0,756	0,743
ERICH3-AS1:4	SEQ0864	0,0449	0,888	0,743	lnc-MB-3:1	SEQ0944	0,0449	1,302	0,257
EXTL3-AS1:16	SEQ0568	0,02842	0,739	0,764	lnc-MBP-16:2	SEQ0208	0,00829	1,204	0,188
FAM66B:14	SEQ0063	0,00291	0,604	0,847	lnc-MC5R-5:1	SEQ0945	0,0449	0,742	0,743
FLG-AS1:14	SEQ0752	0,03872	1,18	0,25	lnc-MC5R-6:2	SEQ0243	0,01004	0,626	0,806
FLVCR1-AS1:13	SEQ0137	0,00681	0,413	0,819	lnc-MDM4-8:1	SEQ0816	0,03872	0,791	0,75
FRG1-DT:6	SEQ0865	0,0449	0,873	0,743	lnc-ME3-1:1	SEQ0946	0,0449	1,353	0,257
GAS1RR:11	SEQ0302	0,01449	0,848	0,792	lnc-MED10-23:1	SEQ0209	0,00829	1,295	0,188
GAS6-AS2:9	SEQ0303	0,01449	0,787	0,792	lnc-MED15-1:2	SEQ0620	0,02842	1,191	0,236
GPC5-AS1:7	SEQ0753	0,03872	0,623	0,75	lnc-MESD-6:1	SEQ0947	0,0449	0,762	0,743
GPR158-AS1:1	SEQ0398	0,02049	0,775	0,778	lnc-MEST-6:1	SEQ0124	0,00556	0,817	0,826
GRM5-AS1:1	SEQ0138	0,00681	0,83	0,819	lnc-METTL22-11:1	SEQ0709	0,03324	0,747	0,757
HAND2-AS1:58	SEQ0094	0,00451	0,587	0,833	lnc-MFSD8-6:3	SEQ0528	0,02418	0,845	0,771

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
HAND2-AS1:59	SEQ0111	0,00556	0,592	0,826	lnc-MFSD8-6:8	SEQ0371	0,01727	0,794	0,785
HAND2-AS1:70	SEQ0039	0,00183	0,543	0,861	lnc-MGST3-1:3	SEQ0043	0,00183	1,664	0,139
HAND2-AS1:71	SEQ0076	0,00364	0,565	0,84	lnc-MIB1-1:1	SEQ0159	0,00681	0,68	0,819
HCG23:5	SEQ0754	0,03872	0,813	0,75	lnc-MNX1-10:1	SEQ0322	0,01449	1,204	0,208
KAZN-AS1:4	SEQ0399	0,02049	0,732	0,778	lnc-MOGAT1-3:2	SEQ0948	0,0449	0,703	0,743
KCNQ1-AS1:3	SEQ0569	0,02842	0,848	0,764	lnc-MPLKIP-3:1	SEQ0710	0,03324	0,867	0,757
KCNQ1OT1:8	SEQ0139	0,00681	0,908	0,819	lnc-MPP4-3:1	SEQ0817	0,03872	0,813	0,75
LACTB2-AS1:1	SEQ0755	0,03872	1,206	0,25	lnc-MRC2-2:1	SEQ0818	0,03872	0,835	0,75
LINC00158:5	SEQ0570	0,02842	0,748	0,764	lnc-MRGPRD-2:1	SEQ0244	0,01004	0,79	0,806
LINC00200:6	SEQ0064	0,00291	1,29	0,153	lnc-MRGPRF-4:4	SEQ0105	0,00451	0,604	0,833
LINC00276:2	SEQ0866	0,0449	0,846	0,743	lnc-MROH7-2:1	SEQ0529	0,02418	0,844	0,771
LINC00354:4	SEQ0867	0,0449	1,284	0,257	lnc-MRPL57-5:8	SEQ0621	0,02842	0,855	0,764
LINC00458:19	SEQ0571	0,02842	0,789	0,764	lnc-MRPS30-13:1	SEQ0819	0,03872	0,814	0,75
LINC00460:13	SEQ0868	0,0449	0,752	0,743	lnc-MSH2-3:2	SEQ0711	0,03324	1,401	0,243
LINC00472:21	SEQ0140	0,00681	1,389	0,181	lnc-MTRNR2L1-3:1	SEQ0530	0,02418	1,325	0,229
LINC00554:2	SEQ0756	0,03872	0,766	0,75	lnc-MVB12B-6:1	SEQ0531	0,02418	0,811	0,771
LINC00554:4	SEQ0757	0,03872	0,766	0,75	lnc-MYC-12:1	SEQ0622	0,02842	1,418	0,236
LINC00574:13	SEQ0112	0,00556	0,771	0,826	lnc-MYO18B-2:3	SEQ0323	0,01449	0,833	0,792
LINC00589:3	SEQ0869	0,0449	0,781	0,743	lnc-MYO18B-3:3	SEQ0160	0,00681	0,762	0,819
LINC00649:23	SEQ0077	0,00364	0,619	0,84	lnc-MYOCOS-2:1	SEQ0439	0,02049	0,891	0,778
LINC00698:2	SEQ0657	0,03324	0,85	0,757	lnc-NAA38-3:1	SEQ0532	0,02418	0,854	0,771
LINC00707:9	SEQ0572	0,02842	1,304	0,236	lnc-NAALADL2-8:1	SEQ0324	0,01449	0,864	0,792
LINC00839:18	SEQ0113	0,00556	0,874	0,826	lnc-NANOS1-3:1	SEQ0712	0,03324	1,277	0,243
LINC00882:70	SEQ0028	0,00111	0,867	0,875	lnc-NAXD-6:5	SEQ0125	0,00556	0,479	0,826
LINC00882:71	SEQ0029	0,00111	0,867	0,875	lnc-NBPF14-1:2	SEQ0089	0,00364	0,815	0,84
LINC00887:15	SEQ0870	0,0449	0,925	0,743	lnc-NBPF14-3:1	SEQ0623	0,02842	0,889	0,764
LINC00895:3	SEQ0179	0,00829	1,491	0,188	lnc-NCR3LG1-3:1	SEQ0018	0,00066	0,837	0,889
LINC00927:21	SEQ0658	0,03324	0,619	0,757	lnc-NDFIP2-7:13	SEQ0820	0,03872	0,775	0,75
LINC00927:22	SEQ0659	0,03324	0,619	0,757	lnc-NDFIP2-7:14	SEQ0440	0,02049	0,77	0,778
LINC00927:24	SEQ0343	0,01727	0,772	0,785	lnc-NDRG2-5:1	SEQ0949	0,0449	0,773	0,743
LINC00938:6	SEQ0262	0,01209	0,811	0,799	lnc-NDUFA10-6:1	SEQ0161	0,00681	0,712	0,819
LINC00963:67	SEQ0573	0,02842	1,379	0,236	lnc-NDUFB9-2:2	SEQ0713	0,03324	1,345	0,243
LINC01050:6	SEQ0114	0,00556	0,82	0,826	lnc-NDUFS6-15:1	SEQ0950	0,0449	0,805	0,743
LINC01058:3	SEQ0871	0,0449	1,225	0,257	lnc-NEUROD2-4:1	SEQ0071	0,00291	0,772	0,847
LINC01087:1	SEQ0141	0,00681	0,764	0,819	lnc-NKAIN2-5:1	SEQ0821	0,03872	0,794	0,75
LINC01088:18	SEQ0660	0,03324	0,757	0,757	lnc-NKX6-1-2:1	SEQ0282	0,01209	0,773	0,799
LINC01107:1	SEQ0304	0,01449	0,768	0,792	lnc-NOC2L-1:21	SEQ0245	0,01004	1,382	0,194
LINC01122:27	SEQ0574	0,02842	1,263	0,236	lnc-NOC2L-12:1	SEQ0372	0,01727	1,479	0,215
LINC01146:14	SEQ0758	0,03872	0,774	0,75	lnc-NOS2-7:1	SEQ0951	0,0449	1,203	0,257
LINC01153:1	SEQ0661	0,03324	1,169	0,243	lnc-NPBWR1-2:2	SEQ0952	0,0449	1,517	0,257
LINC01185:7	SEQ0575	0,02842	0,793	0,764	lnc-NPIPB12-1:1	SEQ0822	0,03872	1,13	0,25

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
LINC01197:26	SEQ0759	0,03872	0,847	0,75	lnc-NPY5R-4:1	SEQ0823	0,03872	0,817	0,75
LINC01206:11	SEQ0662	0,03324	0,612	0,757	lnc-NR2E1-4:4	SEQ0714	0,03324	0,688	0,757
LINC01206:20	SEQ0400	0,02049	1,94	0,222	lnc-NR5A2-1:13	SEQ0441	0,02049	0,908	0,778
LINC01226:8	SEQ0663	0,03324	0,902	0,757	lnc-NRP1-4:1	SEQ0953	0,0449	1,258	0,257
LINC01270:15	SEQ0477	0,02418	1,703	0,229	lnc-NUB1-4:1	SEQ0126	0,00556	0,809	0,826
LINC01320:22	SEQ0576	0,02842	0,785	0,764	lnc-NUP35-4:2	SEQ0715	0,03324	0,858	0,757
LINC01322:20	SEQ0223	0,01004	0,561	0,806	lnc-NUTM1-14:4	SEQ0716	0,03324	0,638	0,757
LINC01355:9	SEQ0664	0,03324	0,854	0,757	lnc-NUTM2B-3:1	SEQ0533	0,02418	0,801	0,771
LINC01376:10	SEQ0760	0,03872	0,934	0,75	lnc-NUTM2E-1:5	SEQ0127	0,00556	0,849	0,826
LINC01394:15	SEQ0401	0,02049	1,238	0,222	lnc-ODF1-5:2	SEQ0325	0,01449	0,847	0,792
LINC01394:26	SEQ0402	0,02049	1,238	0,222	lnc-ODF1-9:1	SEQ0824	0,03872	0,806	0,75
LINC01394:50	SEQ0095	0,00451	0,797	0,833	lnc-OPRK1-2:1	SEQ0717	0,03324	0,826	0,757
LINC01410:11	SEQ0023	0,00086	0,734	0,882	lnc-OR10AD1-1:1	SEQ0624	0,02842	0,826	0,764
LINC01419:6	SEQ0872	0,0449	0,663	0,743	lnc-OR13C4-8:1	SEQ0625	0,02842	0,806	0,764
LINC01426:10	SEQ0577	0,02842	0,871	0,764	lnc-OR4F21-7:9	SEQ0283	0,01209	0,761	0,799
LINC01481:8	SEQ0478	0,02418	0,9	0,771	lnc-OR4F29-3:11	SEQ0044	0,00183	0,85	0,861
LINC01519:3	SEQ0305	0,01449	0,805	0,792	lnc-OR4F29-8:4	SEQ0210	0,00829	0,633	0,813
LINC01527:1	SEQ0578	0,02842	0,781	0,764	lnc-OR5H2-1:2	SEQ0326	0,01449	0,768	0,792
LINC01568:12	SEQ0479	0,02418	0,68	0,771	lnc-OR6S1-2:1	SEQ0373	0,01727	0,857	0,785
LINC01629:11	SEQ0579	0,02842	0,59	0,764	lnc-OR8G5-7:2	SEQ0626	0,02842	0,763	0,764
LINC01653:2	SEQ0580	0,02842	0,792	0,764	lnc-ORAOV1-3:3	SEQ0442	0,02049	0,895	0,778
LINC01684:16	SEQ0480	0,02418	0,907	0,771	lnc-OSBPL6-1:1	SEQ0443	0,02049	1,366	0,222
LINC01697:9	SEQ0873	0,0449	0,874	0,743	lnc-OSBPL7-3:3	SEQ0534	0,02418	0,855	0,771
LINC01719:19	SEQ0761	0,03872	0,855	0,75	lnc-OSBPL7-3:4	SEQ0535	0,02418	0,855	0,771
LINC01748:17	SEQ0481	0,02418	0,791	0,771	lnc-OSBPL7-3:6	SEQ0536	0,02418	0,855	0,771
LINC01762:4	SEQ0874	0,0449	0,941	0,743	lnc-OSBPL7-5:1	SEQ0162	0,00681	1,685	0,181
LINC01793:2	SEQ0344	0,01727	0,743	0,785	lnc-OST4-6:2	SEQ0954	0,0449	0,774	0,743
LINC01798:4	SEQ0482	0,02418	0,791	0,771	lnc-OXGR1-6:2	SEQ0374	0,01727	1,987	0,215
LINC01845:3	SEQ0115	0,00556	1,55	0,174	lnc-OXGR1-6:3	SEQ0163	0,00681	0,861	0,819
LINC01856:2	SEQ0762	0,03872	1,176	0,25	lnc-OXR1-1:1	SEQ0627	0,02842	0,752	0,764
LINC01903:2	SEQ0345	0,01727	0,774	0,785	lnc-P2RY2-11:1	SEQ0537	0,02418	0,86	0,771
LINC01918:13	SEQ0763	0,03872	1,138	0,25	lnc-PABPC1-3:1	SEQ0444	0,02049	0,814	0,778
LINC02104:7	SEQ0306	0,01449	0,82	0,792	lnc-PABPC4L-21:3	SEQ0375	0,01727	1,485	0,215
LINC02177:6	SEQ0403	0,02049	0,768	0,778	lnc-PABPC4L-5:7	SEQ0284	0,01209	0,626	0,799
LINC02177:8	SEQ0764	0,03872	0,494	0,75	lnc-PACRGL-5:1	SEQ0718	0,03324	0,64	0,757
LINC02197:6	SEQ0483	0,02418	0,76	0,771	lnc-PAGR1-2:4	SEQ0719	0,03324	1,176	0,243
LINC02204:2	SEQ0142	0,00681	0,78	0,819	lnc-PALLD-3:1	SEQ0164	0,00681	0,741	0,819
LINC02204:3	SEQ0143	0,00681	0,78	0,819	lnc-PAN3-3:1	SEQ0955	0,0449	0,758	0,743
LINC02232:10	SEQ0665	0,03324	0,646	0,757	lnc-PANK1-7:1	SEQ0211	0,00829	0,723	0,813
LINC02246:11	SEQ0346	0,01727	0,74	0,785	lnc-PAPD7-2:3	SEQ0956	0,0449	0,786	0,743
LINC02252:3	SEQ0765	0,03872	0,881	0,75	lnc-PAPPA-1:3	SEQ0720	0,03324	2,192	0,243

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
LINC02323:8	SEQ0307	0,01449	0,622	0,792	lnc-PAPPA-1:4	SEQ0721	0,03324	0,814	0,757
LINC02334:6	SEQ0581	0,02842	0,737	0,764	lnc-PAPPA2-1:10	SEQ0246	0,01004	0,753	0,806
LINC02345:11	SEQ0013	0,00066	1,181	0,111	lnc-PAPPA2-7:1	SEQ0165	0,00681	0,839	0,819
LINC02432:9	SEQ0180	0,00829	0,776	0,813	lnc-PATE2-1:1	SEQ0247	0,01004	0,728	0,806
LINC02473:3	SEQ0065	0,00291	0,786	0,847	lnc-PAX8-6:2	SEQ0538	0,02418	1,413	0,229
LINC02519:7	SEQ0875	0,0449	0,682	0,743	lnc-PAXIP1-8:1	SEQ0957	0,0449	0,731	0,743
LINC02554:5	SEQ0404	0,02049	0,744	0,778	lnc-PCDH10-11:1	SEQ0958	0,0449	0,719	0,743
LINC02580:5	SEQ0484	0,02418	0,767	0,771	lnc-PCDH8-12:1	SEQ0166	0,00681	0,742	0,819
lnc-AASDHPPT-3:1	SEQ0409	0,02049	0,715	0,778	lnc-PCOLCE2-1:1	SEQ0959	0,0449	0,909	0,743
lnc-ABCA1-8:9	SEQ0589	0,02842	0,592	0,764	lnc-PCSK9-4:6	SEQ0327	0,01449	1,154	0,208
lnc-ABCA5-14:2	SEQ0881	0,0449	1,164	0,257	lnc-PCSK9-4:9	SEQ0328	0,01449	1,154	0,208
lnc-ABCA5-7:1	SEQ0014	0,00066	1,309	0,111	lnc-PDLIM1-3:1	SEQ0960	0,0449	0,837	0,743
lnc-ABCG2-3:5	SEQ0667	0,03324	0,758	0,757	lnc-PFKP-16:15	SEQ0628	0,02842	0,662	0,764
lnc-ACO1-1:1	SEQ0590	0,02842	0,759	0,764	lnc-PFKP-17:1	SEQ0445	0,02049	0,834	0,778
lnc-ACOT12-9:1	SEQ0053	0,00232	0,727	0,854	lnc-PHF14-14:19	SEQ0825	0,03872	0,678	0,75
lnc-ACTL7B-8:1	SEQ0493	0,02418	0,697	0,771	lnc-PIGB-1:5	SEQ0539	0,02418	0,691	0,771
lnc-ADAD1-3:1	SEQ0774	0,03872	0,828	0,75	lnc-PIGM-4:1	SEQ0248	0,01004	0,715	0,806
lnc-ADAMTS20-3:1	SEQ0494	0,02418	1,219	0,229	lnc-PINX1-7:1	SEQ0329	0,01449	1,307	0,208
lnc-ADAMTS5-1:1	SEQ0882	0,0449	0,851	0,743	lnc-PLA2G2F-1:2	SEQ0285	0,01209	1,224	0,201
lnc-ADAT1-1:1	SEQ0495	0,02418	0,877	0,771	lnc-PLA2G4A-7:5	SEQ0446	0,02049	0,865	0,778
lnc-ADRA2A-4:1	SEQ0883	0,0449	0,729	0,743	lnc-PLA2G4A-7:8	SEQ0826	0,03872	0,74	0,75
lnc-ADRB1-4:1	SEQ0118	0,00556	0,858	0,826	lnc-PLAT-1:3	SEQ0961	0,0449	0,738	0,743
lnc-AFG1L-5:1	SEQ0263	0,01209	1,407	0,201	lnc-PLCB1-7:2	SEQ0827	0,03872	0,854	0,75
lnc-AGO2-2:2	SEQ0119	0,00556	0,511	0,826	lnc-PLEKHA8-3:5	SEQ0962	0,0449	0,793	0,743
lnc-AGO2-2:3	SEQ0668	0,03324	1,442	0,243	lnc-PLK1-1:6	SEQ0963	0,0449	0,663	0,743
lnc-AGR3-6:1	SEQ0884	0,0449	1,156	0,257	lnc-PLN-2:1	SEQ0722	0,03324	0,781	0,757
lnc-AHR-5:1	SEQ0264	0,01209	0,792	0,799	lnc-PLSCR2-2:1	SEQ0964	0,0449	0,813	0,743
lnc-AIG1-5:1	SEQ0496	0,02418	0,862	0,771	lnc-POC5-3:1	SEQ0629	0,02842	0,747	0,764
lnc-AKAP9-1:2	SEQ0775	0,03872	0,704	0,75	lnc-POLE4-3:1	SEQ0330	0,01449	0,798	0,792
lnc-AKIRIN1-1:11	SEQ0591	0,02842	0,553	0,764	lnc-POU2AF1-1:2	SEQ0447	0,02049	0,874	0,778
lnc-AKR1C2-3:17	SEQ0097	0,00451	0,768	0,833	lnc-PPIAL4F-3:2	SEQ0828	0,03872	1,302	0,25
lnc-AKR1D1-5:2	SEQ0098	0,00451	0,891	0,833	lnc-PPM1D-1:8	SEQ0540	0,02418	0,8	0,771
lnc-AKR1D1-8:3	SEQ0885	0,0449	0,797	0,743	lnc-PPP2R3C-4:1	SEQ0025	0,00086	0,879	0,882
lnc-AKR1E2-15:1	SEQ0410	0,02049	1,303	0,222	lnc-PPP5C-4:1	SEQ0723	0,03324	0,757	0,757
lnc-AKR7A2-2:1	SEQ0145	0,00681	1,339	0,181	lnc-PRDM9-19:2	SEQ0829	0,03872	0,709	0,75
lnc-AKT1-1:15	SEQ0411	0,02049	0,825	0,778	lnc-PRDM9-20:1	SEQ0376	0,01727	0,678	0,785
lnc-ALB-1:12	SEQ0146	0,00681	1,448	0,181	lnc-PRELID2-1:2	SEQ0541	0,02418	1,232	0,229
lnc-ALB-1:6	SEQ0886	0,0449	0,881	0,743	lnc-PRKACG-1:2	SEQ0724	0,03324	0,738	0,757
lnc-ALDH3B2-3:4	SEQ0412	0,02049	0,89	0,778	lnc-PRKACG-2:1	SEQ0630	0,02842	1,186	0,236
lnc-ALG14-5:2	SEQ0350	0,01727	0,697	0,785	lnc-PRKCH-1:1	SEQ0286	0,01209	0,904	0,799
lnc-ALS2CR12-1:2	SEQ0351	0,01727	0,729	0,785	lnc-PRKN-8:1	SEQ0212	0,00829	1,368	0,188
lnc-ANAPC11-2:6	SEQ0887	0,0449	1,836	0,257	lnc-PRND-2:1	SEQ0287	0,01209	0,798	0,799

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-ANKRD1-1:6	SEQ0888	0,0449	0,77	0,743	lnc-PRR11-1:4	SEQ0288	0,01209	0,862	0,799
lnc-ANKRD26-1:3	SEQ0497	0,02418	0,852	0,771	lnc-PRR5-5:1	SEQ0167	0,00681	0,703	0,819
lnc-ANKRD30BL-2:2	SEQ0413	0,02049	0,747	0,778	lnc-PRSS54-2:2	SEQ0168	0,00681	0,769	0,819
lnc-ANKRD46-1:3	SEQ0669	0,03324	0,687	0,757	lnc-PSMB1-6:4	SEQ0331	0,01449	2,134	0,208
lnc-ANXA3-8:1	SEQ0670	0,03324	0,838	0,757	lnc-PTDSS1-1:2	SEQ0448	0,02049	1,246	0,222
lnc-APBA1-5:1	SEQ0592	0,02842	0,781	0,764	lnc-PTP4A2-1:2	SEQ0725	0,03324	1,223	0,243
lnc-APIP-1:13	SEQ0776	0,03872	0,807	0,75	lnc-PTPN14-11:1	SEQ0449	0,02049	1,341	0,222
lnc-APLP2-4:1	SEQ0054	0,00232	0,786	0,854	lnc-PTPN4-1:1	SEQ0631	0,02842	0,755	0,764
lnc-APOB-1:2	SEQ0777	0,03872	0,583	0,75	lnc-QRFP-5:1	SEQ0019	0,00066	2,17	0,111
lnc-APPL2-1:2	SEQ0498	0,02418	1,133	0,229	lnc-RAB3B-1:1	SEQ0965	0,0449	0,843	0,743
lnc-AQP8-2:7	SEQ0352	0,01727	1,254	0,215	lnc-RAB6C-3:1	SEQ0966	0,0449	0,836	0,743
lnc-ARAP2-9:1	SEQ0147	0,00681	0,795	0,819	lnc-RAI14-3:1	SEQ0542	0,02418	0,835	0,771
lnc-ARHGAP15-17:1	SEQ0353	0,01727	0,857	0,785	lnc-RALGAPA1-1:2	SEQ0726	0,03324	0,86	0,757
lnc-ARHGAP15-22:1	SEQ0593	0,02842	0,846	0,764	lnc-RALGAPA2-2:4	SEQ0967	0,0449	0,805	0,743
lnc-ARHGAP21-1:2	SEQ0309	0,01449	0,723	0,792	lnc-RARRES1-3:2	SEQ0632	0,02842	0,84	0,764
lnc-ARHGAP26-4:11	SEQ0189	0,00829	0,923	0,813	lnc-RASGRP1-3:3	SEQ0968	0,0449	0,796	0,743
lnc-ARHGAP26-4:33	SEQ0778	0,03872	0,71	0,75	lnc-RBFOX1-2:1	SEQ0377	0,01727	1,269	0,215
lnc-ARHGAP26-4:39	SEQ0889	0,0449	1,383	0,257	lnc-RBKS-6:1	SEQ0128	0,00556	0,802	0,826
lnc-ARHGEF26-2:1	SEQ0067	0,00291	1,399	0,153	lnc-RBM11-11:1	SEQ0450	0,02049	0,714	0,778
lnc-ARHGEF5-5:1	SEQ0354	0,01727	0,712	0,785	lnc-RBM25-1:1	SEQ0969	0,0449	0,89	0,743
lnc-ARID2-7:1	SEQ0671	0,03324	0,924	0,757	lnc-RBM33-3:1	SEQ0727	0,03324	0,762	0,757
lnc-ARNTL-2:1	SEQ0265	0,01209	0,61	0,799	lnc-RBM45-7:1	SEQ0830	0,03872	0,792	0,75
lnc-ARRDC4-7:1	SEQ0779	0,03872	0,876	0,75	lnc-RBMS1-7:1	SEQ0249	0,01004	0,778	0,806
lnc-ART5-2:1	SEQ0414	0,02049	0,787	0,778	lnc-RCSD1-4:1	SEQ0831	0,03872	0,831	0,75
lnc-ATAD1-5:2	SEQ0148	0,00681	0,738	0,819	lnc-RDH13-1:2	SEQ0250	0,01004	0,635	0,806
lnc-ATIC-2:8	SEQ0780	0,03872	0,554	0,75	lnc-RGMA-28:2	SEQ0378	0,01727	0,875	0,785
lnc-ATP12A-3:1	SEQ0499	0,02418	0,763	0,771	lnc-RGS9-15:6	SEQ0970	0,0449	0,705	0,743
lnc-ATP13A4-2:4	SEQ0672	0,03324	1,64	0,243	lnc-RHNO1-1:1	SEQ0026	0,00086	1,248	0,118
lnc-ATP5O-3:1	SEQ0224	0,01004	1,358	0,194	lnc-RHOB-1:3	SEQ0451	0,02049	0,612	0,778
lnc-ATP6V0E2-7:1	SEQ0500	0,02418	1,361	0,229	lnc-RHOB-21:1	SEQ0971	0,0449	0,817	0,743
lnc-ATP6V1B2-2:6	SEQ0594	0,02842	1,132	0,236	lnc-RHOBTB2-4:1	SEQ0213	0,00829	0,839	0,813
lnc-ATP6V1B2-2:7	SEQ0595	0,02842	1,132	0,236	lnc-RIPPLY3-1:3	SEQ0832	0,03872	0,889	0,75
lnc-ATP8A2-1:1	SEQ0355	0,01727	1,477	0,215	lnc-RIT2-5:1	SEQ0289	0,01209	1,302	0,201
lnc-ATXN2-1:1	SEQ0099	0,00451	0,792	0,833	lnc-RNF6-2:1	SEQ0059	0,00232	0,692	0,854
lnc-ATXN7-11:1	SEQ0501	0,02418	1,319	0,229	lnc-RNFT2-1:5	SEQ0379	0,01727	0,8	0,785
lnc-ATXN7L1-1:1	SEQ0890	0,0449	1,32	0,257	lnc-RNLS-1:1	SEQ0972	0,0449	0,829	0,743
lnc-AUH-2:7	SEQ0190	0,00829	0,584	0,813	lnc-ROBO2-16:1	SEQ0251	0,01004	0,799	0,806
lnc-AUH-2:9	SEQ0673	0,03324	1,35	0,243	lnc-RPE65-4:2	SEQ0129	0,00556	0,857	0,826
lnc-AUH-4:1	SEQ0596	0,02842	0,79	0,764	lnc-RPIA-25:1	SEQ0130	0,00556	0,866	0,826
lnc-BAG3-4:4	SEQ0891	0,0449	1,314	0,257	lnc-RPL10L-5:1	SEQ0452	0,02049	0,77	0,778
lnc-BARHL2-4:4	SEQ0100	0,00451	0,736	0,833	lnc-RPL24-6:1	SEQ0728	0,03324	1,245	0,243

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-BCHE-1:1	SEQ0674	0,03324	0,741	0,757	lnc-RPL35-2:1	SEQ0543	0,02418	0,812	0,771
lnc-BCL6-9:1	SEQ0310	0,01449	0,885	0,792	lnc-RPL37-2:1	SEQ0214	0,00829	1,309	0,188
lnc-BIRC2-5:5	SEQ0225	0,01004	0,831	0,806	lnc-RPRM-7:1	SEQ0380	0,01727	0,679	0,785
lnc-BIRC6-1:4	SEQ0892	0,0449	0,829	0,743	lnc-RPS12-4:1	SEQ0633	0,02842	0,806	0,764
lnc-BMS1-2:1	SEQ0675	0,03324	1,124	0,243	lnc-RPS21-4:2	SEQ0027	0,00086	0,664	0,882
lnc-BNC2-5:1	SEQ0191	0,00829	1,299	0,188	lnc-RRM1-2:5	SEQ0973	0,0449	0,934	0,743
lnc-BORA-31:1	SEQ0192	0,00829	0,67	0,813	lnc-RSL1D1-2:1	SEQ0215	0,00829	0,762	0,813
lnc-BRD1-17:1	SEQ0311	0,01449	0,669	0,792	lnc-RTL1-3:9	SEQ0544	0,02418	0,848	0,771
lnc-BRINP1-3:1	SEQ0893	0,0449	0,894	0,743	lnc-RUBCN-1:1	SEQ0833	0,03872	0,788	0,75
lnc-BRINP2-3:1	SEQ0597	0,02842	0,878	0,764	lnc-S1PR1-13:1	SEQ0381	0,01727	0,686	0,785
lnc-C10orf90-2:2	SEQ0415	0,02049	1,687	0,222	lnc-SAMD11-1:1	SEQ0729	0,03324	1,247	0,243
lnc-C12orf40-3:3	SEQ0894	0,0449	1,434	0,257	lnc-SAMD5-1:10	SEQ0090	0,00364	0,708	0,84
lnc-C12orf42-3:6	SEQ0598	0,02842	1,303	0,236	lnc-SC5D-4:1	SEQ0730	0,03324	1,249	0,243
lnc-C15orf41-18:5	SEQ0676	0,03324	1,649	0,243	lnc-SCD-7:1	SEQ0974	0,0449	0,731	0,743
lnc-C15orf41-18:6	SEQ0895	0,0449	1,561	0,257	lnc-SCGB1C2-8:1	SEQ0975	0,0449	0,776	0,743
lnc-C19orf57-1:1	SEQ0896	0,0449	1,361	0,257	lnc-SCNN1B-3:1	SEQ0976	0,0449	1,155	0,257
lnc-C1QTNF9-4:1	SEQ0781	0,03872	1,282	0,25	lnc-SCTR-2:4	SEQ0634	0,02842	0,852	0,764
lnc-C21orf58-1:2	SEQ0033	0,00143	2,231	0,132	lnc-SEPT14-6:1	SEQ0545	0,02418	0,878	0,771
lnc-C2CD4B-6:4	SEQ0193	0,00829	1,39	0,188	lnc-SERHL2-1:8	SEQ0546	0,02418	1,483	0,229
lnc-C2orf42-10:1	SEQ0502	0,02418	1,28	0,229	lnc-SERINC1-8:3	SEQ0731	0,03324	0,827	0,757
lnc-C3orf58-7:1	SEQ0599	0,02842	0,725	0,764	lnc-SERP1-4:6	SEQ0072	0,00291	0,719	0,847
lnc-C5orf30-10:1	SEQ0266	0,01209	0,708	0,799	lnc-SERP1-4:8	SEQ0977	0,0449	0,831	0,743
lnc-C5orf30-10:2	SEQ0600	0,02842	0,891	0,764	lnc-SERPINI1-14:1	SEQ0978	0,0449	0,85	0,743
lnc-C5orf67-3:1	SEQ0149	0,00681	0,876	0,819	lnc-SERTM1-1:1	SEQ0290	0,01209	0,817	0,799
lnc-C7orf57-4:1	SEQ0356	0,01727	1,461	0,215	lnc-SFPQ-2:1	SEQ0169	0,00681	0,72	0,819
lnc-C9orf3-5:1	SEQ0120	0,00556	0,782	0,826	lnc-SGCG-7:2	SEQ0453	0,02049	0,733	0,778
lnc-CA7-2:2	SEQ0677	0,03324	0,817	0,757	lnc-SGK1-3:14	SEQ0979	0,0449	1,836	0,257
lnc-CAB39L-1:4	SEQ0267	0,01209	0,769	0,799	lnc-SGMS1-4:1	SEQ0834	0,03872	0,793	0,75
lnc-CAB39L-4:2	SEQ0601	0,02842	1,181	0,236	lnc-SH3BGRL2-4:1	SEQ0980	0,0449	1,174	0,257
lnc-CACNA1I-1:1	SEQ0503	0,02418	0,813	0,771	lnc-SKIL-2:3	SEQ0981	0,0449	1,222	0,257
lnc-CACNA2D1-1:1	SEQ0897	0,0449	0,82	0,743	lnc-SLC1A3-1:1	SEQ0547	0,02418	0,791	0,771
lnc-CACNG1-1:1	SEQ0602	0,02842	0,652	0,764	lnc-SLC22A23-11:2	SEQ0732	0,03324	1,239	0,243
lnc-CALML6-1:10	SEQ0898	0,0449	0,577	0,743	lnc-SLC25A21-1:1	SEQ0733	0,03324	0,77	0,757
lnc-CAPS2-1:1	SEQ0357	0,01727	0,708	0,785	lnc-SLC25A24-2:1	SEQ0548	0,02418	0,883	0,771
lnc-CASC10-3:1	SEQ0899	0,0449	0,744	0,743	lnc-SLC25A30-2:4	SEQ0291	0,01209	1,539	0,201
lnc-CASP9-1:1	SEQ0782	0,03872	1,246	0,25	lnc-SLC2A10-1:1	SEQ0549	0,02418	0,788	0,771
lnc-CAVIN2-2:1	SEQ0416	0,02049	1,425	0,222	lnc-SLC38A2-1:11	SEQ0252	0,01004	0,892	0,806
lnc-CBLB-9:1	SEQ0900	0,0449	0,788	0,743	lnc-SLC38A2-1:15	SEQ0332	0,01449	1,425	0,208
lnc-CCDC102B-7:1	SEQ0901	0,0449	0,816	0,743	lnc-SLC39A11-10:11	SEQ0292	0,01209	4,38	0,201
lnc-CCDC167-5:1	SEQ0417	0,02049	1,25	0,222	lnc-SLC46A3-7:1	SEQ0550	0,02418	0,858	0,771

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-CCDC177-6:1	SEQ0783	0,03872	1,157	0,25	lnc-SLCO6A1-2:1	SEQ0635	0,02842	0,775	0,764
lnc-CCDC192-3:1	SEQ0902	0,0449	0,8	0,743	lnc-SLITRK5-17:1	SEQ0293	0,01209	0,636	0,799
lnc-CCDC197-2:1	SEQ0068	0,00291	0,672	0,847	lnc-SLTM-1:2	SEQ0982	0,0449	0,9	0,743
lnc-CCDC61-4:1	SEQ0194	0,00829	0,561	0,813	lnc-SMARCA5-4:18	SEQ0253	0,01004	0,825	0,806
lnc-CCDC7-17:1	SEQ0226	0,01004	1,341	0,194	lnc-SMIM14-4:1	SEQ0454	0,02049	0,788	0,778
lnc-CCDC93-10:2	SEQ0603	0,02842	0,87	0,764	lnc-SMIM17-5:4	SEQ0734	0,03324	0,715	0,757
lnc-CCL1-10:1	SEQ0227	0,01004	1,307	0,194	lnc-SNAPC3-12:5	SEQ0455	0,02049	1,387	0,222
lnc-CCNB1IP1-1:2	SEQ0903	0,0449	0,512	0,743	lnc-SNCA-3:1	SEQ0551	0,02418	0,498	0,771
lnc-CCR8-2:1	SEQ0904	0,0449	1,409	0,257	lnc-SNRPB2-2:4	SEQ0254	0,01004	1,727	0,194
lnc-CCSER1-2:1	SEQ0678	0,03324	0,791	0,757	lnc-SNX10-6:1	SEQ0636	0,02842	0,764	0,764
lnc-CCT8L2-28:1	SEQ0418	0,02049	0,812	0,778	lnc-SNX13-2:6	SEQ0456	0,02049	1,576	0,222
lnc-CD47-11:2	SEQ0905	0,0449	1,317	0,257	lnc-SNX16-6:1	SEQ0983	0,0449	0,83	0,743
lnc-CD47-11:4	SEQ0906	0,0449	1,139	0,257	lnc-SNX17-1:13	SEQ0333	0,01449	1,985	0,208
lnc-CDADC1-1:1	SEQ0907	0,0449	1,18	0,257	lnc-SNX17-1:8	SEQ0984	0,0449	0,754	0,743
lnc-CDH23-2:1	SEQ0908	0,0449	0,757	0,743	lnc-SNX19-6:1	SEQ0835	0,03872	1,249	0,25
lnc-CDK20-14:1	SEQ0358	0,01727	1,274	0,215	lnc-SNX19-9:1	SEQ0836	0,03872	0,837	0,75
lnc-CDK2AP1-1:8	SEQ0909	0,0449	0,84	0,743	lnc-SNX20-8:5	SEQ0985	0,0449	0,933	0,743
lnc-CEACAM16-2:1	SEQ0195	0,00829	0,708	0,813	lnc-SOX11-5:1	SEQ0382	0,01727	1,216	0,215
lnc-CEBPD-11:2	SEQ0784	0,03872	0,763	0,75	lnc-SOX14-2:1	SEQ0045	0,00183	0,837	0,861
lnc-CELF4-15:1	SEQ0785	0,03872	0,89	0,75	lnc-SPAG9-2:1	SEQ0383	0,01727	0,851	0,785
lnc-CELSR1-2:3	SEQ0268	0,01209	0,762	0,799	lnc-SPAG9-2:2	SEQ0384	0,01727	0,851	0,785
lnc-CEP170-9:2	SEQ0042	0,00183	0,828	0,861	lnc-SPATA31A6-10:1	SEQ0837	0,03872	0,804	0,75
lnc-CFAP36-3:2	SEQ0786	0,03872	0,69	0,75	lnc-SPATA31D4-1:6	SEQ0838	0,03872	0,718	0,75
lnc-CHD1L-5:13	SEQ0312	0,01449	0,37	0,792	lnc-SPP1-1:1	SEQ0046	0,00183	0,846	0,861
lnc-CHMP2B-1:11	SEQ0679	0,03324	0,858	0,757	lnc-SPRY1-9:1	SEQ0839	0,03872	0,767	0,75
lnc-CHN1-5:11	SEQ0419	0,02049	0,739	0,778	lnc-SPTSSA-5:2	SEQ0552	0,02418	1,31	0,229
lnc-CHRAC1-1:1	SEQ0680	0,03324	0,747	0,757	lnc-SRCIN1-1:18	SEQ0553	0,02418	0,798	0,771
lnc-CHRAC1-6:1	SEQ0420	0,02049	1,247	0,222	lnc-SRSF2-2:5	SEQ0735	0,03324	0,633	0,757
lnc-CHRM2-1:1	SEQ0121	0,00556	0,833	0,826	lnc-ST8SIA4-3:5	SEQ0457	0,02049	1,584	0,222
lnc-CHRM3-1:5	SEQ0681	0,03324	0,714	0,757	lnc-STARD10-1:6	SEQ0840	0,03872	1,156	0,25
lnc-CHST2-6:2	SEQ0196	0,00829	0,763	0,813	lnc-STAT1-2:3	SEQ0986	0,0449	0,832	0,743
lnc-CLDN10-5:1	SEQ0313	0,01449	0,717	0,792	lnc-STK32B-2:1	SEQ0170	0,00681	0,807	0,819
lnc-CLEC19A-3:1	SEQ0787	0,03872	1,284	0,25	lnc-STOML3-6:1	SEQ0038	0,00143	0,731	0,868
lnc-CLK1-1:7	SEQ0197	0,00829	0,602	0,813	lnc-STPG1-1:1	SEQ0637	0,02842	0,82	0,764
lnc-CLVS2-2:5	SEQ0359	0,01727	0,818	0,785	lnc-STRADB-6:2	SEQ0987	0,0449	0,723	0,743
lnc-CMPK2-34:4	SEQ0101	0,00451	0,651	0,833	lnc-SUCLA2-13:2	SEQ0736	0,03324	1,22	0,243
lnc-CMTM7-2:2	SEQ0269	0,01209	0,838	0,799	lnc-SUCLA2-13:3	SEQ0737	0,03324	1,22	0,243
lnc-CMTR1-10:1	SEQ0788	0,03872	0,868	0,75	lnc-SUGT1-3:1	SEQ0131	0,00556	2,047	0,174
lnc-CNBD1-4:13	SEQ0682	0,03324	0,568	0,757	lnc-SULT1A4-1:27	SEQ0841	0,03872	1,274	0,25
lnc-CNDP1-7:1	SEQ0024	0,00086	0,534	0,882	lnc-SULT1C2-3:1	SEQ0842	0,03872	1,396	0,25
lnc-CNOT6-10:1	SEQ0270	0,01209	1,19	0,201	lnc-SUSD1-1:5	SEQ0638	0,02842	0,798	0,764

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-COL6A6-2:1	SEQ0910	0,0449	0,717	0,743	lnc-SYCP1-4:1	SEQ0843	0,03872	1,204	0,25
lnc-COMMD6-10:1	SEQ0079	0,00364	1,58	0,16	lnc-TAAR9-3:2	SEQ0738	0,03324	0,806	0,757
lnc-COX10-9:2	SEQ0911	0,0449	0,849	0,743	lnc-TAB2-1:4	SEQ0988	0,0449	0,846	0,743
lnc-CPEB3-2:1	SEQ0789	0,03872	0,78	0,75	lnc-TACC2-8:6	SEQ0171	0,00681	0,869	0,819
lnc-CPM-2:11	SEQ0912	0,0449	0,424	0,743	lnc-TACSTD2-2:4	SEQ0020	0,00066	0,757	0,889
lnc-CPM-3:1	SEQ0228	0,01004	0,831	0,806	lnc-TADA2B-6:1	SEQ0554	0,02418	1,467	0,229
lnc-CRIPT-1:3	SEQ0790	0,03872	0,802	0,75	lnc-TAF9-10:1	SEQ0639	0,02842	0,825	0,764
lnc-CRISP1-1:2	SEQ0271	0,01209	0,685	0,799	lnc-TASP1-11:1	SEQ0989	0,0449	1,217	0,257
lnc-CRYBA1-4:1	SEQ0421	0,02049	0,693	0,778	lnc-TBC1D22A-4:12	SEQ0739	0,03324	0,969	0,757
lnc-CRYBB1-1:1	SEQ0055	0,00232	0,487	0,854	lnc-TBC1D3H-1:1	SEQ0334	0,01449	0,729	0,792
lnc-CSGALNACT2-2:3	SEQ0791	0,03872	0,781	0,75	lnc-TBC1D3H-3:1	SEQ0294	0,01209	0,72	0,799
lnc-CSNK1A1-6:1	SEQ0030	0,00111	0,696	0,875	lnc-TBL1XR1-7:1	SEQ0458	0,02049	0,754	0,778
lnc-CTIF-9:2	SEQ0504	0,02418	1,28	0,229	lnc-TCEANC2-3:1	SEQ0106	0,00451	0,549	0,833
lnc-CTNNA2-3:11	SEQ0198	0,00829	0,812	0,813	lnc-TCEANC2-3:2	SEQ0385	0,01727	1,882	0,215
lnc-CTNNA3-1:2	SEQ0683	0,03324	0,82	0,757	lnc-TCF19-1:80	SEQ0740	0,03324	1,351	0,243
lnc-CTNND2-3:1	SEQ0913	0,0449	0,797	0,743	lnc-TCF7-1:3	SEQ0990	0,0449	0,866	0,743
lnc-CTR9-7:1	SEQ0914	0,0449	0,763	0,743	lnc-TCP10-2:1	SEQ0991	0,0449	0,876	0,743
lnc-CYB5R2-3:13	SEQ0199	0,00829	0,749	0,813	lnc-TCP11-2:3	SEQ0640	0,02842	0,67	0,764
lnc-CYBA-4:3	SEQ0150	0,00681	0,784	0,819	lnc-TCP11L2-1:4	SEQ0741	0,03324	0,74	0,757
lnc-CYP2E1-1:1	SEQ0684	0,03324	1,733	0,243	lnc-TDO2-6:1	SEQ0641	0,02842	0,758	0,764
lnc-CYTIP-2:1	SEQ0200	0,00829	0,727	0,813	lnc-TDP2-1:1	SEQ0335	0,01449	1,29	0,208
lnc-DAO-3:1	SEQ0685	0,03324	1,109	0,243	lnc-TEAD4-1:1	SEQ0992	0,0449	1,868	0,257
lnc-DAPP1-2:11	SEQ0505	0,02418	0,822	0,771	lnc-TEFM-10:2	SEQ0993	0,0449	0,736	0,743
lnc-DAZAP2-3:1	SEQ0056	0,00232	0,797	0,854	lnc-TEKT3-3:1	SEQ0844	0,03872	0,744	0,75
lnc-DDX1-3:1	SEQ0915	0,0449	1,251	0,257	lnc-TEKT4-4:1	SEQ0132	0,00556	1,332	0,174
lnc-DDX18-1:1	SEQ0506	0,02418	0,721	0,771	lnc-TENM3-3:3	SEQ0001	0,00007	0,717	0,938
lnc-DDX18-1:7	SEQ0314	0,01449	0,755	0,792	lnc-TENM3-3:4	SEQ0008	0,00037	1,947	0,097
lnc-DEFB112-3:4	SEQ0422	0,02049	0,565	0,778	lnc-TENM3-3:5	SEQ0009	0,00037	1,993	0,097
lnc-DEK-4:1	SEQ0507	0,02418	0,715	0,771	lnc-TENM4-4:1	SEQ0742	0,03324	2,209	0,243
lnc-DEPTOR-5:3	SEQ0360	0,01727	0,846	0,785	lnc-TEX10-1:1	SEQ0459	0,02049	0,814	0,778
lnc-DGCR2-5:1	SEQ0423	0,02049	0,872	0,778	lnc-TEX29-3:1	SEQ0172	0,00681	0,767	0,819
lnc-DGCR6-7:26	SEQ0792	0,03872	0,736	0,75	lnc-TEX49-4:1	SEQ0994	0,0449	0,789	0,743
lnc-DHX37-18:1	SEQ0229	0,01004	0,751	0,806	lnc-TF-4:1	SEQ0743	0,03324	0,898	0,757
lnc-DHX38-25:1	SEQ0230	0,01004	0,894	0,806	lnc-TFCP2L1-6:1	SEQ0460	0,02049	0,743	0,778
lnc-DKK1-5:3	SEQ0005	0,00027	0,739	0,91	lnc-TGM6-2:1	SEQ0216	0,00829	0,741	0,813
lnc-DKK1-5:4	SEQ0793	0,03872	0,893	0,75	lnc-THAP12-1:5	SEQ0642	0,02842	1,427	0,236
lnc-DLG5-1:1	SEQ0034	0,00143	0,773	0,868	lnc-THOC5-3:1	SEQ0133	0,00556	0,717	0,826
lnc-DLX2-12:1	SEQ0151	0,00681	0,747	0,819	lnc-THY1-3:1	SEQ0995	0,0449	0,788	0,743
lnc-DMRTA1-17:1	SEQ0201	0,00829	0,79	0,813	lnc-THYN1-1:1	SEQ0461	0,02049	1,173	0,222
lnc-DNAH9-1:1	SEQ0508	0,02418	0,812	0,771	lnc-TLDC2-4:1	SEQ0555	0,02418	1,214	0,229
lnc-DNALI1-5:4	SEQ0102	0,00451	0,776	0,833	lnc-TLE4-7:1	SEQ0255	0,01004	1,184	0,194

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-DOCK7-7:1	SEQ0015	0,00066	0,843	0,889	lnc-TLK1-1:2	SEQ0556	0,02418	0,76	0,771
lnc-DTWD2-14:1	SEQ0361	0,01727	0,811	0,785	lnc-TLNRD1-3:1	SEQ0462	0,02049	0,829	0,778
lnc-DUSP10-6:1	SEQ0057	0,00232	0,675	0,854	lnc-TMEM126B-2:3	SEQ0336	0,01449	0,508	0,792
lnc-DUSP26-3:2	SEQ0031	0,00111	0,796	0,875	lnc-TMEM126B-2:4	SEQ0643	0,02842	1,964	0,236
lnc-DYNAP-1:1	SEQ0604	0,02842	0,761	0,764	lnc-TMEM132C-6:5	SEQ0996	0,0449	1,222	0,257
lnc-EAF1-2:1	SEQ0509	0,02418	0,737	0,771	lnc-TMEM168-1:1	SEQ0073	0,00291	0,761	0,847
lnc-EBF3-1:6	SEQ0686	0,03324	1,241	0,243	lnc-TMEM185B-12:1	SEQ0173	0,00681	0,549	0,819
lnc-EBLN1-1:4	SEQ0016	0,00066	0,725	0,889	lnc-TMEM185B-12:7	SEQ0060	0,00232	1,694	0,146
lnc-EDDM13-5:11	SEQ0231	0,01004	0,372	0,806	lnc-TMEM185B-2:3	SEQ0386	0,01727	1,212	0,215
lnc-EDDM13-5:3	SEQ0035	0,00143	1,505	0,132	lnc-TMEM211-2:8	SEQ0644	0,02842	1,278	0,236
lnc-EDEM3-7:3	SEQ0272	0,01209	0,86	0,799	lnc-TMEM242-6:1	SEQ0463	0,02049	0,879	0,778
lnc-EDRF1-1:5	SEQ0916	0,0449	0,728	0,743	lnc-TMEM248-4:11	SEQ0845	0,03872	0,842	0,75
lnc-EEF1AKMT1-3:6	SEQ0202	0,00829	0,423	0,813	lnc-TMEM70-7:1	SEQ0217	0,00829	1,404	0,188
lnc-EEF2-3:1	SEQ0687	0,03324	1,301	0,243	lnc-TMX4-3:1	SEQ0464	0,02049	0,776	0,778
lnc-EFR3B-7:2	SEQ0362	0,01727	0,821	0,785	lnc-TNFRSF19-2:1	SEQ0744	0,03324	1,177	0,243
lnc-EGFR-7:1	SEQ0917	0,0449	1,181	0,257	lnc-TNFSF4-3:3	SEQ0337	0,01449	1,714	0,208
lnc-EIF2AK3-31:7	SEQ0918	0,0449	0,848	0,743	lnc-TOGARAM2-1:5	SEQ0645	0,02842	0,81	0,764
lnc-EIF2AK3-4:81	SEQ0688	0,03324	1,466	0,243	lnc-TOGARAM2-1:6	SEQ0646	0,02842	0,81	0,764
lnc-ELF1-5:1	SEQ0510	0,02418	0,799	0,771	lnc-TP53TG3-65:1	SEQ0465	0,02049	1,227	0,222
lnc-ELFN2-1:3	SEQ0080	0,00364	0,764	0,84	lnc-TP53TG3D-2:1	SEQ0846	0,03872	0,9	0,75
lnc-EPB42-1:3	SEQ0689	0,03324	0,917	0,757	lnc-TP53TG3F-8:1	SEQ0647	0,02842	1,33	0,236
lnc-EPHA7-3:1	SEQ0081	0,00364	0,763	0,84	lnc-TPPP-1:2	SEQ0002	0,00014	0,158	0,924
lnc-ERCC6L2-10:2	SEQ0605	0,02842	0,927	0,764	lnc-TPPP-1:3	SEQ0134	0,00556	1,834	0,174
lnc-ERCC6L2-6:1	SEQ0363	0,01727	1,784	0,215	lnc-TRAM1-1:1	SEQ0074	0,00291	0,59	0,847
lnc-ERFE-1:1	SEQ0919	0,0449	0,489	0,743	lnc-TRIB2-14:1	SEQ0021	0,00066	0,788	0,889
lnc-ERGIC2-2:2	SEQ0364	0,01727	0,799	0,785	lnc-TRIM13-2:1	SEQ0174	0,00681	0,739	0,819
lnc-ERH-1:1	SEQ0424	0,02049	0,708	0,778	lnc-TRIM26-2:33	SEQ0745	0,03324	0,782	0,757
lnc-ERICH1-9:1	SEQ0920	0,0449	0,85	0,743	lnc-TRIM26-2:74	SEQ0338	0,01449	1,231	0,208
lnc-ERV3-1-9:1	SEQ0203	0,00829	1,32	0,188	lnc-TRIM27-10:2	SEQ0107	0,00451	1,227	0,167
lnc-ESRP1-2:4	SEQ0315	0,01449	0,542	0,792	lnc-TRIM37-2:1	SEQ0997	0,0449	1,221	0,257
lnc-ETS1-2:2	SEQ0082	0,00364	1,436	0,16	lnc-TRIM43B-1:2	SEQ0387	0,01727	0,8	0,785
lnc-EXOC2-21:6	SEQ0204	0,00829	1,528	0,188	lnc-TRIM49D1-4:1	SEQ0175	0,00681	1,36	0,181
lnc-EZH2-3:1	SEQ0273	0,01209	0,79	0,799	lnc-TRIM77-7:1	SEQ0847	0,03872	0,741	0,75
lnc-F11-8:1	SEQ0690	0,03324	0,876	0,757	lnc-TRIML2-11:1	SEQ0557	0,02418	1,296	0,229
lnc-F13A1-2:7	SEQ0691	0,03324	1,485	0,243	lnc-TRMT11-4:1	SEQ0218	0,00829	0,773	0,813
lnc-FAM133B-2:1	SEQ0036	0,00143	0,767	0,868	lnc-TRPM1-3:1	SEQ0388	0,01727	0,83	0,785
lnc-FAM171B-1:6	SEQ0205	0,00829	0,851	0,813	lnc-TSC22D2-1:4	SEQ0466	0,02049	0,633	0,778
lnc-FAM19A3-6:3	SEQ0274	0,01209	0,75	0,799	lnc-TSHB-2:3	SEQ0295	0,01209	0,564	0,799

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-FAM217A-1:2	SEQ0032	0,00111	0,854	0,875	lnc-TSHB-2:4	SEQ0467	0,02049	1,766	0,222
lnc-FAM231B-2:1	SEQ0511	0,02418	1,252	0,229	lnc-TSHB-2:5	SEQ0468	0,02049	1,766	0,222
lnc-FAM231B-2:2	SEQ0512	0,02418	1,252	0,229	lnc-TSHB-2:6	SEQ0296	0,01209	0,564	0,799
lnc-FAM236D-2:1	SEQ0692	0,03324	0,601	0,757	lnc-TSR3-1:2	SEQ0339	0,01449	0,784	0,792
lnc-FAM46C-3:1	SEQ0794	0,03872	0,755	0,75	lnc-TSTD2-4:3	SEQ0848	0,03872	1,229	0,25
lnc-FAM49B-8:1	SEQ0010	0,0005	1,758	0,104	lnc-TTC26-9:1	SEQ0558	0,02418	0,686	0,771
lnc-FAM71F2-5:1	SEQ0425	0,02049	0,642	0,778	lnc-TTC38-7:1	SEQ0849	0,03872	1,169	0,25
lnc-FAM72B-6:3	SEQ0606	0,02842	1,327	0,236	lnc-TTF2-4:1	SEQ0998	0,0449	0,848	0,743
lnc-FAM84A-5:1	SEQ0607	0,02842	0,697	0,764	lnc-TUBA1C-1:12	SEQ0999	0,0449	0,731	0,743
lnc-FAM84B-17:4	SEQ0608	0,02842	0,741	0,764	lnc-TUBE1-6:1	SEQ0850	0,03872	1,141	0,25
lnc-FAM84B-4:3	SEQ0083	0,00364	0,803	0,84	lnc-TUBGCP3-11:1	SEQ0469	0,02049	0,885	0,778
lnc-FAP-3:1	SEQ0206	0,00829	0,749	0,813	lnc-TUSC5-3:1	SEQ1000	0,0449	1,345	0,257
lnc-FARSB-6:1	SEQ0232	0,01004	1,292	0,194	lnc-TWSG1-2:1	SEQ0047	0,00183	0,673	0,861
lnc-FAT1-7:2	SEQ0017	0,00066	1,383	0,111	lnc-UBE2QL1-4:1	SEQ0648	0,02842	0,864	0,764
lnc-FAT4-6:1	SEQ0609	0,02842	0,751	0,764	lnc-UBE3C-10:1	SEQ0075	0,00291	1,627	0,153
lnc-FBRSL1-3:3	SEQ0610	0,02842	1,645	0,236	lnc-UBLCP1-2:6	SEQ0048	0,00183	0,755	0,861
lnc-FCGR3B-4:11	SEQ0513	0,02418	0,848	0,771	lnc-UCK1-2:1	SEQ0851	0,03872	0,774	0,75
lnc-FCGR3B-4:12	SEQ0514	0,02418	0,848	0,771	lnc-UGCG-1:1	SEQ0219	0,00829	0,802	0,813
lnc-FER1L6-2:1	SEQ0515	0,02418	0,779	0,771	lnc-UGT1A8-3:1	SEQ0649	0,02842	1,428	0,236
lnc-FGD4-8:1	SEQ0233	0,01004	0,688	0,806	lnc-UGT2B28-1:2	SEQ1001	0,0449	0,818	0,743
lnc-FGD4-9:1	SEQ0084	0,00364	0,711	0,84	lnc-UGT2B28-2:1	SEQ0559	0,02418	0,764	0,771
lnc-FILIP1L-3:1	SEQ0058	0,00232	0,867	0,854	lnc-UGT3A2-3:1	SEQ0389	0,01727	0,855	0,785
lnc-FNBP1L-1:11	SEQ0006	0,00027	0,743	0,91	lnc-UNC93B1-1:5	SEQ1002	0,0449	0,806	0,743
lnc-FOXC1-6:2	SEQ0516	0,02418	0,736	0,771	lnc-UNCX-3:26	SEQ0470	0,02049	0,493	0,778
lnc-FOXD4L5-35:1	SEQ0152	0,00681	1,878	0,181	lnc-UPK3B-7:1	SEQ0297	0,01209	0,607	0,799
lnc-FOXO1-2:8	SEQ0611	0,02842	1,402	0,236	lnc-USP16-15:1	SEQ0650	0,02842	0,811	0,764
lnc-FRG2-13:3	SEQ0275	0,01209	0,908	0,799	lnc-USP16-9:3	SEQ0091	0,00364	0,834	0,84
lnc-FSIP1-6:4	SEQ0795	0,03872	1,401	0,25	lnc-USP17L7-1:1	SEQ0746	0,03324	1,48	0,243
lnc-FSIP2-2:1	SEQ0921	0,0449	0,76	0,743	lnc-USP24-2:3	SEQ0747	0,03324	0,694	0,757
lnc-FTCD-5:1	SEQ0796	0,03872	0,722	0,75	lnc-USP31-2:3	SEQ0022	0,00066	0,685	0,889
lnc-FTMT-2:14	SEQ0517	0,02418	0,792	0,771	lnc-USP53-1:1	SEQ0390	0,01727	0,824	0,785
lnc-GALC-9:8	SEQ0234	0,01004	0,557	0,806	lnc-USP6NL-13:1	SEQ0748	0,03324	1,209	0,243
lnc-GALNT2-1:1	SEQ0426	0,02049	0,729	0,778	lnc-VGLL3-11:1	SEQ0220	0,00829	0,81	0,813
lnc-GALNTL5-3:1	SEQ0693	0,03324	0,759	0,757	lnc-VPS8-2:4	SEQ0852	0,03872	0,742	0,75
lnc-GCLC-1:13	SEQ0922	0,0449	0,597	0,743	lnc-VSTM2B-5:12	SEQ0560	0,02418	0,771	0,771
lnc-GDPD5-6:1	SEQ0153	0,00681	0,799	0,819	lnc-VWA5B1-2:1	SEQ0391	0,01727	1,479	0,215
lnc-GFI1B-2:3	SEQ0797	0,03872	0,681	0,75	lnc-WDR4-2:6	SEQ1003	0,0449	0,929	0,743
lnc-GGH-3:1	SEQ0798	0,03872	0,782	0,75	lnc-WDR63-6:2	SEQ0471	0,02049	0,655	0,778
lnc-GHR-1:1	SEQ0003	0,0002	0,787	0,917	lnc-WDR70-7:6	SEQ1004	0,0449	0,929	0,743
lnc-GJC1-2:2	SEQ0799	0,03872	0,832	0,75	lnc-WDR7-11:1	SEQ0749	0,03324	1,151	0,243
lnc-GJC1-2:3	SEQ0800	0,03872	0,832	0,75	lnc-WDYHV1-1:2	SEQ0561	0,02418	0,912	0,771

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-GLIPR1-3:2	SEQ0923	0,0449	0,923	0,743	lnc-WISP1-17:2	SEQ0135	0,00556	0,715	0,826
lnc-GLIPR1L1-2:3	SEQ0427	0,02049	1,26	0,222	lnc-WSB1-2:1	SEQ0256	0,01004	1,293	0,194
lnc-GMDS-6:8	SEQ0694	0,03324	0,721	0,757	lnc-XCL2-4:1	SEQ1005	0,0449	0,714	0,743
lnc-GNG5-8:1	SEQ0695	0,03324	0,771	0,757	lnc-XXYLT1-5:1	SEQ0221	0,00829	0,681	0,813
lnc-GOLGA4-4:7	SEQ0365	0,01727	0,855	0,785	lnc-YPEL5-5:1	SEQ0750	0,03324	1,357	0,243
lnc-GOLGA6L6-9:1	SEQ0069	0,00291	0,711	0,847	lnc-ZC3H12D-2:3	SEQ0392	0,01727	0,831	0,785
lnc-GOLGA8F-2:1	SEQ0235	0,01004	0,756	0,806	lnc-ZC3H15-2:1	SEQ0012	0,0005	0,765	0,896
lnc-GOLGA8O-5:6	SEQ0428	0,02049	0,715	0,778	lnc-ZFAT-1:3	SEQ0562	0,02418	0,907	0,771
lnc-GPAT4-1:3	SEQ0316	0,01449	1,56	0,208	lnc-ZFAT-1:8	SEQ0393	0,01727	0,841	0,785
lnc-GPATCH11-1:1	SEQ0612	0,02842	0,703	0,764	lnc-ZFC3H1-16:2	SEQ0651	0,02842	0,789	0,764
lnc-GPATCH2L-2:1	SEQ0317	0,01449	0,85	0,792	lnc-ZFP57-15:1	SEQ0177	0,00701	0,402	0,826
lnc-GPC2-2:5	SEQ0518	0,02418	1,355	0,229	lnc-ZFP90-3:6	SEQ0563	0,02418	0,739	0,771
lnc-GPR157-6:1	SEQ0924	0,0449	0,827	0,743	lnc-ZMYM2-7:1	SEQ0853	0,03872	1,335	0,25
lnc-GPR161-4:1	SEQ0070	0,00291	0,726	0,847	lnc-ZNF107-7:1	SEQ0652	0,02842	0,735	0,764
lnc-GPR27-18:1	SEQ0925	0,0449	0,774	0,743	lnc-ZNF124-1:2	SEQ0564	0,02418	0,827	0,771
lnc-GPR33-14:1	SEQ0236	0,01004	0,828	0,806	lnc-ZNF189-2:1	SEQ0751	0,03324	0,903	0,757
lnc-GPR37-1:1	SEQ0926	0,0449	0,793	0,743	lnc-ZNF25-7:1	SEQ0257	0,01004	1,37	0,194
lnc-GPR39-10:2	SEQ0154	0,00681	1,393	0,181	lnc-ZNF25-9:4	SEQ0298	0,01209	0,663	0,799
lnc-GPRC5A-4:1	SEQ0613	0,02842	0,717	0,764	lnc-ZNF273-4:4	SEQ0092	0,00364	0,742	0,84
lnc-GPRC6A-2:1	SEQ0927	0,0449	0,865	0,743	lnc-ZNF330-2:1	SEQ0854	0,03872	0,833	0,75
lnc-GPSM1-3:3	SEQ0928	0,0449	0,64	0,743	lnc-ZNF33A-14:1	SEQ0049	0,00183	1,499	0,139
lnc-GRAMD2B-4:1	SEQ0801	0,03872	0,879	0,75	lnc-ZNF33A-8:1	SEQ1006	0,0449	1,115	0,257
lnc-GRIP1-1:2	SEQ0429	0,02049	1,564	0,222	lnc-ZNF33B-3:11	SEQ1007	0,0449	0,846	0,743
lnc-GRIP1-5:2	SEQ0519	0,02418	0,914	0,771	lnc-ZNF33B-6:1	SEQ0394	0,01727	2,524	0,215
lnc-GRIP1-8:1	SEQ0802	0,03872	1,339	0,25	lnc-ZNF33B-6:3	SEQ0299	0,01209	0,825	0,799
lnc-GRM1-1:19	SEQ0929	0,0449	1,338	0,257	lnc-ZNF385C-4:1	SEQ0472	0,02049	1,311	0,222
lnc-GRM1-1:31	SEQ0155	0,00681	0,864	0,819	lnc-ZNF423-3:3	SEQ1008	0,0449	1,258	0,257
lnc-GRM1-1:32	SEQ0156	0,00681	0,864	0,819	lnc-ZNF430-3:1	SEQ0855	0,03872	0,797	0,75
lnc-GRM8-2:2	SEQ0430	0,02049	0,902	0,778	lnc-ZNF430-3:4	SEQ0258	0,01004	0,788	0,806
lnc-GSN-2:4	SEQ0930	0,0449	0,94	0,743	lnc-ZNF442-1:2	SEQ0061	0,00232	0,683	0,854
lnc-GSN-2:5	SEQ0803	0,03872	0,955	0,75	lnc-ZNF460-2:1	SEQ0473	0,02049	0,842	0,778
lnc-GTDC1-28:5	SEQ0157	0,00681	0,725	0,819	lnc-ZNF506-5:2	SEQ0108	0,00451	0,684	0,833
lnc-GUCY1A3-1:1	SEQ0520	0,02418	0,724	0,771	lnc-ZNF544-2:1	SEQ0474	0,02049	0,805	0,778
lnc-GUSB-1:1	SEQ0931	0,0449	0,829	0,743	lnc-ZNF573-2:2	SEQ0856	0,03872	0,823	0,75
lnc-HECA-3:13	SEQ0237	0,01004	0,8	0,806	lnc-ZNF624-4:3	SEQ0395	0,01727	1,241	0,215
lnc-HECA-6:1	SEQ0007	0,00037	0,723	0,903	lnc-ZNF654-3:1	SEQ0857	0,03872	0,869	0,75
lnc-HELT-6:1	SEQ0932	0,0449	0,784	0,743	lnc-ZNF720-5:3	SEQ0222	0,00829	1,313	0,188
lnc-HHATL-2:1	SEQ0933	0,0449	1,127	0,257	lnc-ZNF724-6:1	SEQ0176	0,00681	0,729	0,819
lnc-HHLA2-2:1	SEQ0696	0,03324	1,238	0,243	lnc-ZNF726-1:3	SEQ0259	0,01004	2,115	0,194
lnc-HJURP-7:1	SEQ0431	0,02049	0,776	0,778	lnc-ZNF827-2:1	SEQ0653	0,02842	0,924	0,764
lnc-HLCS-5:1	SEQ0238	0,01004	0,866	0,806	lnc-ZNF99-3:2	SEQ0396	0,01727	0,751	0,785
lnc-HMG20A-1:2	SEQ0432	0,02049	0,513	0,778	lnc-ZRANB2-2:1	SEQ0654	0,02842	0,801	0,764

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-HMGA1-2:3	SEQ0804	0,03872	1,288	0,25	lnc-ZSWIM2-15:1	SEQ0655	0,02842	0,696	0,764
lnc-HMGN1-2:1	SEQ0433	0,02049	1,424	0,222	lnc-ZWINT-2:4	SEQ0565	0,02418	0,637	0,771
lnc-HOMEZ-4:1	SEQ0434	0,02049	0,848	0,778	LRP4-AS1:5	SEQ0766	0,03872	1,288	0,25
lnc-HOXC4-1:3	SEQ0805	0,03872	0,845	0,75	LYRM4-AS1:17	SEQ0485	0,02418	0,893	0,771
lnc-HS3ST3A1-1:1	SEQ0239	0,01004	0,75	0,806	MAPT-AS1:1	SEQ0767	0,03872	0,785	0,75
lnc-HS6ST1-8:1	SEQ0697	0,03324	1,344	0,243	MCPH1-AS1:2	SEQ0308	0,01449	1,321	0,208
lnc-HSCB-7:1	SEQ0614	0,02842	0,742	0,764	MDC1-AS1:5	SEQ0486	0,02418	1,248	0,229
lnc-HSD17B11-2:1	SEQ0276	0,01209	0,792	0,799	MEF2C-AS1:25	SEQ0582	0,02842	0,907	0,764
lnc-IFRD2-6:1	SEQ0806	0,03872	1,31	0,25	MIR155HG:7	SEQ0876	0,0449	0,606	0,743
lnc-IFT80-8:1	SEQ0934	0,0449	0,916	0,743	MIR29B2CHG:33	SEQ0583	0,02842	0,624	0,764
lnc-IL6-8:4	SEQ0318	0,01449	0,77	0,792	MIR29B2CHG:46	SEQ0181	0,00829	1,522	0,188
lnc-IPO5-7:1	SEQ0521	0,02418	0,869	0,771	MIR31HG:9	SEQ0768	0,03872	0,835	0,75
lnc-IQCF6-2:3	SEQ0807	0,03872	2,026	0,25	MIR4290HG:1	SEQ0405	0,02049	0,773	0,778
lnc-IRF2BP2-11:3	SEQ0103	0,00451	1,403	0,167	MIR9-3HG:29	SEQ0769	0,03872	0,557	0,75
lnc-IRF6-1:1	SEQ0808	0,03872	0,894	0,75	MIR99AHG:104	SEQ0096	0,00451	0,871	0,833
lnc-IRS1-2:5	SEQ0615	0,02842	1,878	0,236	MIR99AHG:37	SEQ0584	0,02842	0,879	0,764
lnc-IRS1-6:1	SEQ0037	0,00143	0,804	0,868	MIR99AHG:46	SEQ0877	0,0449	2,516	0,257
lnc-IRS1-7:3	SEQ0522	0,02418	1,153	0,229	NAV2-AS5:1	SEQ0051	0,00232	1,302	0,146
lnc-IRX2-10:1	SEQ0698	0,03324	0,744	0,757	NAV2-AS5:2	SEQ0052	0,00232	1,302	0,146
lnc-ITGB8-2:8	SEQ0616	0,02842	0,805	0,764	NBAT1:11	SEQ0347	0,01727	1,738	0,215
lnc-JMJD4-2:1	SEQ0435	0,02049	0,736	0,778	NIFK-AS1:25	SEQ0487	0,02418	0,846	0,771
lnc-JRK-2:1	SEQ0935	0,0449	1,162	0,257	NUTM2A-AS1:49	SEQ0182	0,00829	0,633	0,813
lnc-JRK-2:2	SEQ0699	0,03324	0,764	0,757	NUTM2B-AS1:40	SEQ0348	0,01727	0,74	0,785
lnc-KAT5-2:1	SEQ0936	0,0449	0,769	0,743	NUTM2B-AS1:53	SEQ0004	0,00027	0,655	0,91
lnc-KBTBD7-1:1	SEQ0523	0,02418	0,742	0,771	PACRG-AS3:1	SEQ0666	0,03324	1,162	0,243
lnc-KBTBD8-4:3	SEQ0366	0,01727	1,457	0,215	PCBP1-AS1:250	SEQ0770	0,03872	1,266	0,25
lnc-KCNA1-1:23	SEQ0122	0,00556	0,633	0,826	PITRM1-AS1:10	SEQ0488	0,02418	1,274	0,229
lnc-KCND3-1:1	SEQ0085	0,00364	0,808	0,84	PTPRG-AS1:14	SEQ0183	0,00829	0,625	0,813
lnc-KCNE1B-15:1	SEQ0319	0,01449	0,823	0,792	PURPL:13	SEQ0585	0,02842	1,386	0,236
lnc-KCNS3-9:1	SEQ0320	0,01449	1,265	0,208	RAPGEF4-AS1:1	SEQ0878	0,0449	0,824	0,743
lnc-KCTD13-3:1	SEQ0700	0,03324	0,709	0,757	RFX3-AS1:22	SEQ0586	0,02842	0,819	0,764
lnc-KCTD19-1:1	SEQ0701	0,03324	0,761	0,757	RORB-AS1:6	SEQ0116	0,00556	0,845	0,826
lnc-KDM3A-1:4	SEQ0104	0,00451	0,731	0,833	SCHLAP1:9	SEQ0144	0,00681	0,8	0,819
lnc-KDM8-3:1	SEQ0436	0,02049	0,758	0,778	SEC24B-AS1:19	SEQ0406	0,02049	1,852	0,222
lnc-KIAA0141-3:1	SEQ0702	0,03324	1,15	0,243	SLC16A12-AS1:1	SEQ0771	0,03872	0,773	0,75
lnc-KIF21B-2:1	SEQ0937	0,0449	0,873	0,743	SMILR:3	SEQ0040	0,00183	1,306	0,139
lnc-KIN-5:1	SEQ0703	0,03324	0,835	0,757	SNCA-AS1:3	SEQ0041	0,00183	0,777	0,861
lnc-KLF11-1:8	SEQ0704	0,03324	0,286	0,757	SPATA41:13	SEQ0879	0,0449	1,607	0,257
lnc-KLF12-4:1	SEQ0938	0,0449	0,806	0,743	SRGAP3-AS2:10	SEQ0349	0,01727	0,674	0,785
lnc-KLF12-7:1	SEQ0240	0,01004	0,88	0,806	SUCLG2-AS1:14	SEQ0489	0,02418	0,92	0,771
lnc-KLHL24-2:1	SEQ0321	0,01449	1,206	0,208	SUCLG2-AS1:9	SEQ0490	0,02418	0,92	0,771
lnc-KLK2-4:3	SEQ0524	0,02418	0,881	0,771	TCL6:24	SEQ0066	0,00291	1,448	0,153

lncRNA	SEQ	p value	Fold change	AUC	lncRNA	SEQ	p value	Fold change	AUC
lnc-KLRG1-8:1	SEQ0809	0,03872	1,222	0,25	TM4SF19-AS1:10	SEQ0184	0,00829	1,84	0,188
lnc-KREMEN2-1:1	SEQ0705	0,03324	1,279	0,243	TM4SF19-AS1:15	SEQ0491	0,02418	0,853	0,771
lnc-KRR1-4:7	SEQ0706	0,03324	0,801	0,757	TMEM9B-AS1:11	SEQ0185	0,00829	3,049	0,188
lnc-KY-4:1	SEQ0123	0,00556	0,708	0,826	TPT1-AS1:26	SEQ0186	0,00829	0,763	0,813
lnc-L3MBTL2-1:1	SEQ0367	0,01727	1,259	0,215	TRIM52-AS1:24	SEQ0492	0,02418	1,183	0,229
lnc-LARP1B-1:15	SEQ0277	0,01209	0,786	0,799	TRIM52-AS1:8	SEQ0587	0,02842	1,272	0,236
lnc-LARP1B-1:17	SEQ0278	0,01209	0,786	0,799	TTN-AS1:79	SEQ0187	0,00829	0,829	0,813
lnc-LARP1B-1:18	SEQ0279	0,01209	1,214	0,201	TTN-AS1:80	SEQ0188	0,00829	0,829	0,813
lnc-LARP4-6:1	SEQ0368	0,01727	0,803	0,785	UCA1:7	SEQ0078	0,00364	0,697	0,84
lnc-LBH-4:1	SEQ0707	0,03324	1,312	0,243	UGDH-AS1:10	SEQ0407	0,02049	0,541	0,778
lnc-LBX1-1:1	SEQ0241	0,01004	0,788	0,806	WDR86-AS1:15	SEQ0588	0,02842	1,212	0,236
lnc-LEPROTL1-12:1	SEQ0011	0,0005	0,749	0,896	WEE2-AS1:23	SEQ0408	0,02049	0,704	0,778
lnc-LIMS3-1:10	SEQ0086	0,00364	2,27	0,16	WT1-AS:9	SEQ0117	0,00556	0,542	0,826
lnc-LINC00675-1:3	SEQ0810	0,03872	0,669	0,75	YEATS2-AS1:3	SEQ0772	0,03872	0,806	0,75
lnc-LINS1-2:1	SEQ0811	0,03872	0,81	0,75	ZNF528-AS1:1	SEQ0773	0,03872	0,636	0,75
lnc-LMBRD1-5:17	SEQ0812	0,03872	0,574	0,75	ZNF529-AS1:21	SEQ0880	0,0449	0,819	0,743

Out of the 1008 serum lncRNAs differentially expressed with a statistical significance (p value <0.05), 33 lncRNAs showed a fold change of >2 or <0.5 and are shown in the Table 2.

Table 2: Mean +/-SD of the 33 serum lncRNAs that shows a differential expression with both a statistically significance (p<0.05, Wilcoxon test) and a fold change > 2 or <0.5

lncRNA	p value	Fold change	lncRNA	p value	Fold change
lnc-QRFP-5:1	0.00066	2.170	MIR99AHG:46	0.04490	2.516
lnc-C21orf58-1:2	0.00143	2.231	lnc-CPM-2:11	0.04490	0.424
ARRDC3-AS1:7	0.00232	0.441	lnc-ERFE-1:1	0.04490	0.489
lnc-CRYBB1-1:1	0.00232	0.487	lnc-LRRC3B-1:3	0.04490	0.463
lnc-LIMS3-1:10	0.00364	2.270	LINC02177:8	0.03872	0.494
lnc-MARCH4-2:7	0.00364	2.000	lnc-KLF11-1:8	0.03324	0.286
lnc-SUGT1-3:1	0.00556	2.047	lnc-SNCA-3:1	0.02418	0.498
DARS-AS1:47	0.00829	2.015	lnc-UNCX-3:26	0.02049	0.493
TMEM9B-AS1:11	0.00829	3.049	BLACAT1:5	0.01727	0.424
lnc-ZNF726-1:3	0.01004	2.115	lnc-CHD1L-5:13	0.01449	0.370
lnc-SLC39A11-10:11	0.01209	4.380	lnc-EDDM13-5:11	0.01004	0.372
lnc-PSMB1-6:4	0.01449	2.134	lnc-EEF1AKMT1-3:6	0.00829	0.423
DPH6-AS1:3	0.01727	2.004	FLVCR1-AS1:13	0.00681	0.413
lnc-ZNF33B-6:1	0.01727	2.524	lnc-NAXD-6:5	0.00556	0.479
lnc-PAPPA-1:3	0.03324	2.192	lnc-ZFP57-15:1	0.00701	0.402
lnc-TENM4-4:1	0.03324	2.209	lnc-TPPP-1:2	0.00014	0.158
lnc-IQCF6-2:3	0.03872	2.026			

Out of the 1008 serum lncRNAs differentially expressed with a statistical significance (p value <0.05), 60 lncRNAs showed an AUC of $\geq$0.85 and are shown in Table 3.

Table 3: 60 serum lncRNAs with a p value <0.05 and an individual AUC value AUC ≥0.85

lncRNA	AUC
ARRDC3-AS1:7	0.854
HAND2-AS1:70	0.861
LINC00882:70	0.875
LINC00882:71	0.875
LINC01410:11	0.882
LINC02345:11	0.111
NAV2-AS5:1	0.146
NAV2-AS5:2	0.146
NUTM2B-AS1:53	0.910
SMILR:3	0.139
SNCA-AS1:3	0.861
lnc-ABCA5-7:1	0.111
lnc-ACOT12-9:1	0.854
lnc-APLP2-4:1	0.854
lnc-C21orf58-1:2	0.132
lnc-CEP170-9:2	0.861
lnc-CNDP1-7:1	0.882
lnc-CRYBB1-1:1	0.854
lnc-CSNK1A1-6:1	0.875
lnc-DAZAP2-3:1	0.854
lnc-DKK1-5:3	0.910
lnc-DLG5-1:1	0.868
lnc-DOCK7-7:1	0.889
lnc-DUSP10-6:1	0.854
lnc-DUSP26-3:2	0.875
lnc-EBLN1-1:4	0.889
lnc-EDDM13-5:3	0.132
lnc-FAM133B-2:1	0.868
lnc-FAM217A-1:2	0.875
lnc-FAM49B-8:1	0.104
lnc-FAT1-7:2	0.111

lncRNA	AUC
lnc-FILIP1L-3:1	0.854
lnc-FNBP1L-1:11	0.910
lnc-GHR-1:1	0.917
lnc-HECA-6:1	0.903
lnc-IRS1-6:1	0.868
lnc-LEPROTL1-12:1	0.896
lnc-MGST3-1:3	0.139
lnc-NCR3LG1-3:1	0.889
lnc-OR4F29-3:11	0.861
lnc-PPP2R3C-4:1	0.882
lnc-QRFP-5:1	0.111
lnc-RHNO1-1:1	0.118
lnc-RNF6-2:1	0.854
lnc-RPS21-4:2	0.882
lnc-SOX14-2:1	0.861
lnc-SPP1-1:1	0.861
lnc-STOML3-6:1	0.868
lnc-TACSTD2-2:4	0.889
lnc-TENM3-3:3	0.938
lnc-TENM3-3:4	0.097
lnc-TENM3-3:5	0.097
lnc-TMEM185B-12:7	0.146
lnc-TPPP-1:2	0.924
lnc-TRIB2-14:1	0.889
lnc-TWSG1-2:1	0.861
lnc-UBLCP1-2:6	0.861
lnc-USP31-2:3	0.889
lnc-ZC3H15-2:1	0.896
lnc-ZNF33A-14:1	0.139
lnc-ZNF442-1:2	0.854

The predictive modelling based on the random forest algorithm to discriminate between AD patient and healthy control populations when using the total of the 19867 serum lncRNAs analyzed, enabled to show that the AUC in function of the number of lncRNA reached a plateau with the following 13 lncRNAs. These 13 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (mild AD patient and healthy control populations) with an AUC value = 0.993, an accuracy = 95.8%, sensitivity = 100% and specificity = 91.7%.

lncRNA	Rank
lnc-DLG5-1:1	1
lnc-EBLN1-1:4	2
lnc-FAT1-7:2	3
lnc-PRR5-5:1	4
lnc-RBKS-6:1	5
lnc-FOXD4L5-35:1	6

lnc-TENM3-3:3	7
lnc-FAM133B-2:1	8
lnc-ZNF726-1:3	9
lnc-AP3M1-1:1	10
lnc-DUSP10-6:1	11
lnc-TPPP-1:2	12
LINC01206:20	13

Out of the 1008 serum lncRNAs differentially expressed with a statistical significance (p value <0.05), the 90 lncRNAs with a fold change of > 2 (or < 0.5) or an AUC of ≥ 0.85 (or ≤ 0.15) were used for the predictive modelling based on the random forest algorithm. The results show that with the following 7 top ranked candidates enabled a full discrimination between AD and HV groups, with an AUC value of 100% as well as 100% accuracy, 100% sensitivity and 100% specificity.

lncRNA	Rank
LINC02345:11	1
lnc-EBLN1-1:4	2
lnc-TPPP-1:2	3
lnc-TENM3-3:3	4
lnc-FAT1-7:2	5
lnc-DKK1-5:3	6
lnc-TACSTD2-2:4	7

When applying another filter considering a list of the lncRNAs which have a fold change of ≥ 1.6 and an AUC of ≥ 0.85, the use of random forest algorithm enabled to select the following 12-top ranked serum lncRNAs to construct the model and this enabled to discriminate between the AD and HV populations with still an excellent AUC=0.979, excellent accuracy of 95.8% sensitivity of 91.7% and specificity of 100%.

lncRNA	Rank
lnc-TPPP-1:2	1
ARRDC3-AS1:7	2
lnc-TENM3-3:5	3
lnc-TENM3-3:4	4
lnc-QRFP-5:1	5
lnc-CRYBB1-1:1	6
lnc-MGST3-1:3	7
lnc-FAM49B-8:1	8
HAND2-AS1:70	9
lnc-TMEM185B-12:7	10
lnc-CNDP1-7:1	11
lnc-C21orf58-1:2	12

Further to select the best serum lncRNA candidates, modeling using Random Forest algorithm was applied to a specific set of lncRNA candidates having both a statistically significant differential expression in AD patients versus healthy control populations and a good correlation (Pearson R coefficient) with scores of neurocognitive tests including MMSE and/or

MOCA out of 7 neuropsychological tests performed (Table 4): The results show that the signature of the following 3 top ranked lncRNAs enabled an excellent discrimination between AD patients and healthy control populations with AUC=0.953, accuracy, sensitivity and specificity of 91.7%, 91.7% and 91.7%.

lncRNA	Rank
lnc-TENM3-3:3	1
lnc-MARCH4-2:7	2
lnc-LRRC1-5:2	3

Table 4: Serum lncRNAs of the present invention that correlate with neurocognitive tests, MoCA, MMSE. R: correlation coefficient (Pearson). HV: healthy control group, AD: mild to moderate AD group

Cognitive test	**lncRNA**	**R_HV+AD**	**R_HV**	**R_AD**	**p value**	**AUC**
MoCA	LINC00839:18	-0,80	0,29	-0,78	0,00556	0,83
MoCA	LINC01087:1	-0,74	-0,13	-0,89	0,00681	0,82
MMSE	LINC01087:1	-0,68	0,05	-0,75	0,00681	0,82
MMSE	lnc-ANAPC11-2:6	0,65	0,26	0,77	0,04490	0,26
MoCA	lnc-ANAPC11-2:6	0,59	-0,46	0,77	0,04490	0,26
MoCA	lnc-ARHGAP26-4:33	-0,64	-0,66	-0,72	0,03872	0,75
MoCA	lnc-CCDC197-2:1	-0,14	-0,42	0,74	0,00291	0,85
MMSE	lnc-CFAP36-3:2	-0,62	0,05	-0,75	0,03872	0,75
MoCA	lnc-DHX38-25:1	-0,69	-0,60	-0,77	0,01004	0,81
MMSE	lnc-DHX38-25:1	-0,65	-0,57	-0,71	0,01004	0,81
MoCA	lnc-EZH2-3:1	-0,69	0,18	-0,78	0,01209	0,80
MMSE	lnc-GNG5-8:1	-0,72	0,32	-0,71	0,03324	0,76
MoCA	lnc-GPRC5A-4:1	-0,65	-0,02	-0,74	0,02842	0,76
MMSE	lnc-GRAMD2B-4:1	-0,59	0,42	-0,72	0,03872	0,75
MMSE	lnc-GRIP1-8:1	-0,03	0,30	-0,73	0,03872	0,25
MoCA	lnc-LYN-8:1	0,13	0,54	-0,71	0,02842	0,24
MMSE	lnc-MAP9-6:1	-0,73	-0,08	-0,74	0,01209	0,80
MMSE	lnc-NRP1-4:1	-0,11	0,27	-0,72	0,04490	0,26
MoCA	lnc-RBFOX1-2:1	0,02	0,13	-0,75	0,01727	0,22
MoCA	lnc-RPL37-2:1	0,62	-0,16	0,75	0,00829	0,19
MMSE	lnc-RUBCN-1:1	0,11	0,33	0,72	0,03872	0,75
MMSE	lnc-SNCA-3:1	0,08	0,12	0,76	0,02418	0,77
MMSE	lnc-SRSF2-2:5	0,10	0,04	0,75	0,03324	0,76
MoCA	lnc-SRSF2-2:5	-0,05	-0,32	0,73	0,03324	0,76
MMSE	lnc-TMEM185B-12:7	0,06	-0,14	-0,73	0,00232	0,15
MoCA	lnc-TRIB2-14:1	-0,76	-0,45	-0,71	0,00066	0,89
MMSE	lnc-TRIM43B-1:2	-0,74	-0,11	-0,76	0,01727	0,78
MoCA	lnc-TRIM43B-1:2	-0,72	-0,12	-0,74	0,01727	0,78
MMSE	lnc-ZNF189-2:1	-0,70	-0,35	-0,74	0,03324	0,76
MoCA	lnc-ZNF189-2:1	-0,67	0,03	-0,76	0,03324	0,76
MMSE	lnc-ZRANB2-2:1	-0,65	-0,36	-0,82	0,02842	0,76
MoCA	lnc-ZRANB2-2:1	-0,59	0,16	-0,80	0,02842	0,76

Modeling using Random Forest algorithm was also applied to a specific set of serum lncRNA candidates from Table 5 having both a statistically significant differential expression in AD patients versus healthy control populations and a good correlation (Pearson) with neuroimaging scores (volume of brain structures of relevance for cognition and memory such as the mediotemporal area, left and right hippocampus, left and right amygdala, entorhinal cortex out of more than 120 structures measured): The results show that the signature of the following 7 top ranked lncRNAs enabled an excellent discrimination between AD patients and healthy control population with AUC=0.993, accuracy=95.8%, sensitivity=91.7% and specificity=100%.

lncRNA	Rank
lnc-TPPP-1:2	1
lnc-TENM3-3:3	2
lnc-TMEM185B-12:7	3
lnc-NAXD-6:5	4
lnc-HECA-6:1	5
lnc-COMMD6-10:1	6
MIR29B2CHG:46	7

Table 5: Serum lncRNAs of the present invention that correlate with MRI (volumes of the brain structures). R: correlation coefficient (Pearson). HV: healthy control group, AD: mild to moderate AD group.

MRI	lncRNA	R_ HV+AD	R_ HV	R_ AD	p value	AUC
Left.Amygdala	CYTOR:18	0,71	0,30	0,69	0,00291	0,15
Left.Hippocampus	DLGAP2-AS1:18	-0,71	-0,51	-0,76	0,03324	0,76
Left.Hippocampus	LINC00458:19	-0,79	-0,48	-0,78	0,02842	0,76
Mediotemporal	LINC00458:19	-0,72	-0,48	-0,53	0,02842	0,76
Left.Hippocampus	LINC00938:6	-0,82	-0,48	-0,76	0,01209	0,80
Mediotemporal	LINC00938:6	-0,76	-0,63	-0,46	0,01209	0,80
Right.Hippocampus	LINC00938:6	-0,75	-0,56	-0,48	0,01209	0,80
Left.Amygdala	LINC01629:11	-0,78	-0,53	-0,83	0,02842	0,76
Left.Hippocampus	lnc-AIG1-5:1	-0,78	-0,64	-0,73	0,02418	0,77
Left.Hippocampus	lnc-AKR1D1-5:2	-0,74	-0,47	-0,69	0,00451	0,83
Right.Hippocampus	lnc-AKR1D1-5:2	-0,71	-0,27	-0,73	0,00451	0,83
Mediotemporal	lnc-AKR1D1-5:2	-0,71	-0,26	-0,72	0,00451	0,83
Right.Amygdala	lnc-C3orf58-7:1	-0,73	-0,22	-0,69	0,02842	0,76
Left.Hippocampus	lnc-C5orf30-10:2	-0,73	-0,58	-0,58	0,02842	0,76
Right.Amygdala	lnc-CASP9-1:1	0,73	0,26	0,81	0,03872	0,25
Right.Hippocampus	lnc-CHN1-5:11	-0,72	-0,44	-0,67	0,02049	0,78
Right.Amygdala	lnc-CLVS2-2:5	-0,74	-0,39	-0,75	0,01727	0,78
Left.Hippocampus	lnc-DAZAP2-3:1	-0,72	-0,53	-0,58	0,00232	0,85
Mediotemporal	lnc-DTWD2-14:1	-0,75	-0,49	-0,79	0,01727	0,78
Left.Amygdala	lnc-DTWD2-14:1	-0,74	-0,46	-0,82	0,01727	0,78
lh_entorhinal	lnc-DTWD2-14:1	-0,74	-0,59	-0,61	0,01727	0,78

Right.Hippocampus	lnc-ELFN2-1:3	-0,77	-0,26	-0,76	0,00364	0,84
Left.Amygdala	lnc-ELFN2-1:3	-0,74	-0,27	-0,81	0,00364	0,84
Mediotemporal	lnc-ELFN2-1:3	-0,74	-0,22	-0,73	0,00364	0,84
Right.Amygdala	lnc-ELFN2-1:3	-0,74	-0,37	-0,61	0,00364	0,84
Left.Hippocampus	lnc-FAM171B-1:6	-0,72	-0,28	-0,62	0,00829	0,81
Left.Hippocampus	lnc-FGD4-8:1	-0,74	-0,49	-0,61	0,01004	0,81
Left.Amygdala	lnc-FGD4-9:1	-0,76	-0,49	-0,56	0,00364	0,84
Right.Hippocampus	lnc-FGD4-9:1	-0,74	-0,19	-0,64	0,00364	0,84
Mediotemporal	lnc-FGD4-9:1	-0,72	-0,28	-0,54	0,00364	0,84
Left.Hippocampus	lnc-FGD4-9:1	-0,71	-0,33	-0,52	0,00364	0,84
lh_entorhinal	lnc-GPR39-10:2	0,77	0,68	0,49	0,00681	0,18
Left.Amygdala	lnc-GPR39-10:2	0,72	0,54	0,37	0,00681	0,18
Left.Hippocampus	lnc-GRM1-1:31	-0,76	-0,39	-0,72	0,00681	0,82
Right.Hippocampus	lnc-GRM1-1:31	-0,71	-0,38	-0,56	0,00681	0,82
Left.Hippocampus	lnc-GRM1-1:32	-0,76	-0,39	-0,72	0,00681	0,82
Right.Hippocampus	lnc-GRM1-1:32	-0,71	-0,38	-0,56	0,00681	0,82
Right.Hippocampus	lnc-HECA-3:13	-0,72	-0,31	-0,67	0,01004	0,81
Right.Amygdala	lnc-HJURP-7:1	-0,77	-0,46	-0,77	0,02049	0,78
Left.Hippocampus	lnc-HJURP-7:1	-0,73	-0,33	-0,73	0,02049	0,78
Right.Hippocampus	lnc-HJURP-7:1	-0,73	-0,02	-0,93	0,02049	0,78
Mediotemporal	lnc-HJURP-7:1	-0,72	-0,20	-0,82	0,02049	0,78
Left.Amygdala	lnc-IRS1-6:1	-0,75	-0,35	-0,72	0,00143	0,87
Right.Hippocampus	lnc-IRS1-6:1	-0,73	-0,36	-0,56	0,00143	0,87
Mediotemporal	lnc-IRS1-6:1	-0,71	-0,34	-0,51	0,00143	0,87
Right.Hippocampus	lnc-KDM3A-1:4	-0,81	-0,35	-0,80	0,00451	0,83
Mediotemporal	lnc-KDM3A-1:4	-0,77	-0,36	-0,70	0,00451	0,83
Left.Hippocampus	lnc-KDM3A-1:4	-0,72	-0,26	-0,61	0,00451	0,83
Left.Hippocampus	lnc-LARP1B-1:15	-0,75	-0,56	-0,75	0,01209	0,80
Right.Amygdala	lnc-LARP1B-1:15	-0,75	-0,63	-0,71	0,01209	0,80
Left.Hippocampus	lnc-LARP1B-1:17	-0,75	-0,56	-0,75	0,01209	0,80
Right.Amygdala	lnc-LARP1B-1:17	-0,75	-0,63	-0,71	0,01209	0,80
Right.Amygdala	lnc-MAMDC2-1:1	-0,75	-0,72	-0,70	0,02418	0,77
Left.Hippocampus	lnc-MAP9-6:1	-0,79	-0,43	-0,87	0,01209	0,80
Right.Hippocampus	lnc-NAALADL2-8:1	-0,71	-0,28	-0,72	0,01449	0,79
Right.Hippocampus	lnc-NBPF14-1:2	-0,80	-0,38	-0,82	0,00364	0,84
Mediotemporal	lnc-NBPF14-1:2	-0,75	-0,37	-0,67	0,00364	0,84
Right.Amygdala	lnc-NBPF14-1:2	-0,73	-0,40	-0,60	0,00364	0,84
Left.Hippocampus	lnc-NBPF14-1:2	-0,72	-0,48	-0,52	0,00364	0,84
Right.Hippocampus	lnc-PIGB-1:5	-0,73	-0,26	-0,79	0,02418	0,77
Right.Amygdala	lnc-PLN-2:1	-0,77	-0,66	-0,72	0,03324	0,76
Mediotemporal	lnc-PLN-2:1	-0,76	-0,66	-0,67	0,03324	0,76
Left.Hippocampus	lnc-PLN-2:1	-0,75	-0,67	-0,64	0,03324	0,76
Right.Hippocampus	lnc-PLN-2:1	-0,73	-0,54	-0,68	0,03324	0,76
Left.Hippocampus	lnc-PTPN4-1:1	-0,74	-0,59	-0,69	0,02842	0,76
Right.Amygdala	lnc-SLC38A2-1:11	-0,76	-0,73	-0,57	0,01004	0,81
Left.Amygdala	lnc-SLC38A2-1:11	-0,73	-0,57	-0,38	0,01004	0,81
Right.Amygdala	lnc-SMARCA5-4:18	-0,72	-0,35	-0,78	0,01004	0,81
Mediotemporal	lnc-SMARCA5-4:18	-0,72	-0,29	-0,84	0,01004	0,81

Left.Amygdala	lnc-SMARCA5-4:18	-0,71	-0,30	-0,92	0,01004	0,81
lh_entorhinal	lnc-TMEM242-6:1	-0,77	-0,64	-0,78	0,02049	0,78
Mediotemporal	lnc-TMEM242-6:1	-0,72	-0,62	-0,63	0,02049	0,78
Right.Hippocampus	lnc-TPPP-1:2	-0,73	-0,03	-0,42	0,00014	0,92
Left.Hippocampus	lnc-TRIM43B-1:2	-0,75	-0,47	-0,72	0,01727	0,78
lh_entorhinal	lnc-TRMT11-4:1	-0,80	-0,86	-0,30	0,00829	0,81
Mediotemporal	lnc-TRMT11-4:1	-0,74	-0,73	-0,30	0,00829	0,81
Left.Amygdala	lnc-TRMT11-4:1	-0,73	-0,58	-0,35	0,00829	0,81
Left.Hippocampus	lnc-USP53-1:1	-0,75	-0,24	-0,84	0,01727	0,78
Left.Hippocampus	lnc-ZNF33B-6:3	-0,78	-0,40	-0,81	0,01209	0,80
Right.Amygdala	lnc-ZNF33B-6:3	-0,74	-0,47	-0,65	0,01209	0,80
Right.Amygdala	MIR29B2CHG:46	0,74	0,35	0,82	0,00829	0,19
rh_entorhinal	MIR29B2CHG:46	0,71	0,45	0,80	0,00829	0,19
Right.Amygdala	PCBP1-AS1:250	0,73	0,20	0,71	0,03872	0,25
Mediotemporal	PCBP1-AS1:250	0,71	0,19	0,70	0,03872	0,25

Modeling using Random Forest algorithm was also applied to a specific set of serum lncRNA candidates from Table 6 having both a statistically significant differential expression in AD patients versus healthy control populations and a good correlation (Pearson) with level of the CSF biomarkers of high relevance to AD pathology: Aβ42, tau or phosphorylated-tau: The results show that the signature of the following 18 top ranked lncRNAs enabled an excellent discrimination between AD patients and healthy control population with AUC=0.972 accuracy=0,917 sensitivity =0.83 and specificity=1.

lncRNA	Rank	lncRNA	Rank
lnc-TPPP-1:2	1	lnc-DNALI1-5:4	10
LINC02345:11	2	RORB-AS1:6	11
lnc-ZNF273-4:4	3	lnc-TPPP-1:3	12
lnc-TACC2-8:6	4	lnc-BMS1-2:1	13
LINC01206:20	5	lnc-ADRB1-4:1	14
lnc-C5orf67-3:1	6	lnc-XXYLT1-5:1	15
HAND2-AS1:58	7	MIR99AHG:104	16
lnc-PRDM9-20:1	8	LINC01748:17	17
lnc-CLK1-1:7	9	lnc-AKR1E2-15:1	18

Table 6: Serum lncRNAs of the present invention that correlate with CSF biomarkers

CSF BM	lncRNA	R_AD	PValue	AUC
Aβ42	LINC01748:17	-0,73	0,0242	0,77
Aβ42	lnc-C5orf67-3:1	0,72	0,0068	0,82
Aβ42	lnc-CYP2E1-1:1	-0,74	0,0332	0,24
Aβ42	lnc-FAP-3:1	-0,72	0,0083	0,81
Aβ42	lnc-FGD4-9:1	-0,73	0,0036	0,84
Aβ42	lnc-GLIPR1L1-2:3	0,72	0,0205	0,22
Aβ42	lnc-KDM3A-1:4	-0,77	0,0045	0,83
Aβ42	lnc-LRCH1-1:1	-0,75	0,0205	0,78
Aβ42	lnc-NPBWR1-2:2	0,81	0,0449	0,26
Aβ42	lnc-PLA2G2F-1:2	-0,74	0,0121	0,20
Aβ42	lnc-POU2AF1-1:2	-0,84	0,0205	0,78
Aβ42	lnc-RCSD1-4:1	-0,72	0,0387	0,75
Aβ42	lnc-SERPINI1-14:1	-0,74	0,0449	0,74
Aβ42	lnc-TAF9-10:1	-0,75	0,0284	0,76
Aβ42	lnc-TNFRSF19-2:1	0,71	0,0332	0,24
Aβ42	lnc-TPPP-1:2	-0,86	0,0001	0,92
Aβ42	lnc-TPPP-1:3	0,8	0,0056	0,17
Aβ42	lnc-ZNF273-4:4	-0,87	0,0036	0,84

CSF BM	lncRNA	R_AD	PValue	AUC
T-tau	HAND2-AS1:58	0,92	0,0045	0,83
T-tau	HAND2-AS1:59	0,9	0,0056	0,83
T-tau	HAND2-AS1:70	0,8	0,0018	0,86
T-tau	HAND2-AS1:71	0,8	0,0036	0,84
T-tau	LINC00200:6	0,71	0,0029	0,15
T-tau	LINC00649:23	-0,74	0,0036	0,84
T-tau	LINC01206:11	-0,74	0,0332	0,76
T-tau	LINC01355:9	0,83	0,0332	0,76
T-tau	lnc-ADRB1-4:1	0,8	0,0056	0,83
T-tau	lnc-AKR1E2-15:1	0,75	0,0205	0,22
T-tau	lnc-APBA1-5:1	0,8	0,0284	0,76
T-tau	lnc-BMS1-2:1	0,76	0,0332	0,24
T-tau	lnc-CA7-2:2	-0,73	0,0332	0,76
T-tau	lnc-CLK1-1:7	-0,83	0,0083	0,81
T-tau	lnc-DAPP1-2:11	0,8	0,0242	0,77
T-tau	lnc-DNALI1-5:4	-0,76	0,0045	0,83
T-tau	lnc-ELF1-5:1	0,86	0,0242	0,77
T-tau	lnc-LBH-4:1	-0,79	0,0332	0,24
T-tau	lnc-MVB12B-6:1	0,89	0,0242	0,77
T-tau	lnc-MYO18B-2:3	-0,72	0,0145	0,79
T-tau	lnc-OR8G5-7:2	-0,81	0,0284	0,76
T-tau	lnc-PAX8-6:2	0,71	0,0242	0,23
T-tau	lnc-POLE4-3:1	0,71	0,0145	0,79
T-tau	lnc-SERTM1-1:1	-0,72	0,0121	0,80
T-tau	lnc-SOX14-2:1	0,71	0,0018	0,86
T-tau	lnc-SYCP1-4:1	-0,83	0,0387	0,25
T-tau	lnc-TACC2-8:6	-0,78	0,0068	0,82
T-tau	lnc-TEAD4-1:1	-0,71	0,0449	0,26
T-tau	lnc-TF-4:1	0,82	0,0332	0,76
T-tau	lnc-TTF2-4:1	-0,8	0,0449	0,74
T-tau	lnc-XXYLT1-5:1	-0,71	0,0083	0,81
T-tau	lnc-ZC3H12D-2:3	-0,72	0,0173	0,78
T-tau	lnc-ZNF430-3:4	-0,79	0,01	0,81
T-tau	MIR99AHG:104	0,9	0,0045	0,83
T-tau	PITRM1-AS1:10	0,91	0,0242	0,23
T-tau	RORB-AS1:6	0,73	0,0056	0,83
T-tau	SEC24B-AS1:19	-0,93	0,0205	0,22
T-tau	ZNF528-AS1:1	-0,74	0,0387	0,75

CSF BM	lncRNA	R_AD	PValue	AUC
p-tau	BLACAT1:3	-0,71	0,0145	0,21
p-tau	HAND2-AS1:58	0,71	0,0045	0,83
p-tau	KAZN-AS1:4	-0,73	0,0205	0,78
p-tau	LINC00649:23	-0,71	0,0036	0,84
p-tau	LINC01206:11	-0,77	0,0332	0,76
p-tau	LINC01206:20	0,84	0,0205	0,22
p-tau	LINC01684:16	0,71	0,0242	0,77
p-tau	LINC02246:11	0,74	0,0173	0,78
p-tau	LINC02345:11	-0,75	0,0007	0,11
p-tau	lnc-AQP8-2:7	-0,82	0,0173	0,22
p-tau	lnc-AUH-2:9	-0,78	0,0332	0,24
p-tau	lnc-CA7-2:2	-0,79	0,0332	0,76
p-tau	lnc-CLK1-1:7	-0,73	0,0083	0,81
p-tau	lnc-ELF1-5:1	0,74	0,0242	0,77
p-tau	lnc-FER1L6-2:1	0,83	0,0242	0,77
p-tau	lnc-HS3ST3A1-1:1	0,77	0,01	0,81
p-tau	lnc-KCTD19-1:1	0,78	0,0332	0,76
p-tau	lnc-LMBRD1-5:17	-0,73	0,0387	0,75
p-tau	lnc-MVB12B-6:1	0,72	0,0242	0,77
p-tau	lnc-NKX6-1-2:1	0,79	0,0121	0,80
p-tau	lnc-OR8G5-7:2	-0,85	0,0284	0,76
p-tau	lnc-PACRGL-5:1	0,71	0,0332	0,76
p-tau	lnc-PRDM9-20:1	0,73	0,0173	0,78
p-tau	lnc-RHOB-1:3	-0,76	0,0205	0,78
p-tau	lnc-RPE65-4:2	-0,79	0,0056	0,83
p-tau	lnc-SERTM1-1:1	-0,82	0,0121	0,80
p-tau	lnc-SOX14-2:1	0,76	0,0018	0,86
p-tau	lnc-SPAG9-2:1	0,71	0,0173	0,78
p-tau	lnc-SPAG9-2:2	0,71	0,0173	0,78
p-tau	lnc-SYCP1-4:1	-0,76	0,0387	0,25
p-tau	lnc-TACC2-8:6	-0,75	0,0068	0,82
p-tau	lnc-TEKT3-3:1	-0,84	0,0387	0,75
p-tau	lnc-TF-4:1	0,73	0,0332	0,76
p-tau	lnc-TP53TG3D-2:1	0,71	0,0387	0,75
p-tau	MIR99AHG:104	0,92	0,0045	0,83
p-tau	RORB-AS1:6	0,81	0,0056	0,83
p-tau	SEC24B-AS1:19	-0,75	0,0205	0,22
p-tau	TM4SF19-AS1:10	0,76	0,0083	0,19

To identify additional brain lncRNAs implicated specifically in brain disorders, in particular in MCI, AD, for therapeutic applications, frozen tissue samples consisting of postmortem brain mediotemporal cortex from AD patients (tissue histo-pathologically showing typical AD lesions: amyloid plaques and tangles) and from non-demented healthy control (HC) subjects (tissue devoid from AD and other lesions) were used in the experiments of deep sequencing and quantification of novel lncRNAs and the 127802 lncRNAs based on LNCipedia, a database for annotated human lncRNA transcript sequences and structures.

A total of 1091 novel lncRNAs were identified in the AD and/or HC brains. These novel 1091 lncRNAs were subsequently added in the list of the sequenced 127802 lncRNAs

totalizing 128,894 lncRNAs profiled in all experiments in the brain. The 1091 novel lncRNAs are shown in Table 7.

Table 7: The 1091 novel lncRNAs identified by the invention and fold change and p-value (differential expression in AD group versus healthy control group).

lncRNA	SEQ	p-value	FC	lncRNA	SEQ	p-value	FC
TCONS_00062603	SEQ2031	0.00794	<0.01	TCONS_00000640	SEQ1046	0.54762	1.31
TCONS_00045361	SEQ1784	0.00794	0.36	TCONS_00045213	SEQ1743	0.54762	1.31
TCONS_00059198	SEQ1931	0.00794	0.32	TCONS_00008828	SEQ1150	0.54762	1.30
TCONS_00055496	SEQ1898	0.00794	0.30	TCONS_00066367	SEQ2071	0.54762	1.29
TCONS_00033736	SEQ1544	0.00794	5.08	TCONS_00040892	SEQ1684	0.54762	1.26
TCONS_00027765	SEQ1436	0.00794	4.55	TCONS_00021484	SEQ1343	0.54762	1.24
TCONS_00017427	SEQ1285	0.01193	0.36	TCONS_00062554	SEQ1984	0.54762	1.23
TCONS_00012083	SEQ1209	0.01193	0.09	TCONS_00027499	SEQ1475	0.54762	1.23
TCONS_00005009	SEQ1130	0.01193	0.08	TCONS_00050541	SEQ1830	0.54762	1.23
TCONS_00036823	SEQ1627	0.01193	2.26	TCONS_00062304	SEQ1987	0.54762	1.22
TCONS_00050539	SEQ1828	0.01471	22.25	TCONS_00026662	SEQ1405	0.54762	1.21
TCONS_00005139	SEQ1106	0.01587	0.34	TCONS_00037058	SEQ1623	0.54762	1.21
TCONS_00050178	SEQ1833	0.01587	0.11	TCONS_00062377	SEQ2034	0.54762	1.19
TCONS_00050218	SEQ1850	0.01587	0.03	TCONS_00027949	SEQ1486	0.54762	1.18
TCONS_00062555	SEQ1991	0.01587	19.87	TCONS_00059376	SEQ1926	0.54762	1.15
TCONS_00000634	SEQ1045	0.01587	5.10	TCONS_00000033	SEQ1016	0.54762	1.15
TCONS_00066462	SEQ2061	0.02118	9.50	TCONS_00023104	SEQ1348	0.54762	1.13
TCONS_00055487	SEQ1896	0.03175	0.50	TCONS_00055452	SEQ1889	0.54762	1.12
TCONS_00036834	SEQ1628	0.03175	0.45	TCONS_00014356	SEQ1229	0.54762	1.12
TCONS_00017409	SEQ1280	0.03175	0.43	TCONS_00004942	SEQ1112	0.54762	1.10
TCONS_00011974	SEQ1218	0.03175	0.42	TCONS_00036055	SEQ1613	0.54762	1.08
TCONS_00026584	SEQ1418	0.03175	0.40	TCONS_00021531	SEQ1316	0.54762	1.06
TCONS_00059199	SEQ1932	0.03175	0.37	TCONS_00005265	SEQ1124	0.54762	1.05
TCONS_00040994	SEQ1713	0.03175	0.36	TCONS_00000557	SEQ1027	0.54762	1.02
TCONS_00005325	SEQ1141	0.03175	0.34	TCONS_00027935	SEQ1466	0.54762	1.00
TCONS_00050200	SEQ1841	0.03175	0.31	TCONS_00023190	SEQ1369	0.54762	0.97
TCONS_00027438	SEQ1450	0.03175	0.22	TCONS_00026752	SEQ1423	0.54762	0.95
TCONS_00024916	SEQ1404	0.03175	11.52	TCONS_00050086	SEQ1810	0.54762	0.92
TCONS_00023309	SEQ1355	0.03175	4.71	TCONS_00019798	SEQ1305	0.54762	0.92
TCONS_00062602	SEQ2030	0.03175	3.75	TCONS_00062550	SEQ1980	0.54762	0.91
TCONS_00023240	SEQ1383	0.03175	3.68	TCONS_00000346	SEQ1079	0.54762	0.91
TCONS_00023401	SEQ1386	0.03175	2.81	TCONS_00000742	SEQ1070	0.54762	0.90
TCONS_00062306	SEQ1989	0.03175	2.27	TCONS_00062316	SEQ2001	0.54762	0.89
TCONS_00027556	SEQ1495	0.03445	0.32	TCONS_00021546	SEQ1323	0.54762	0.87
TCONS_00000570	SEQ1032	0.03615	0.31	TCONS_00050197	SEQ1839	0.54762	0.83

TCONS_00000571	SEQ1033	0.03615	0.25	TCONS_00027601	SEQ1506	0.54762	0.80
TCONS_00033653	SEQ1548	0.03615	7.72	TCONS_00008980	SEQ1184	0.54762	0.78
TCONS_00040878	SEQ1680	0.03615	7.58	TCONS_00008697	SEQ1161	0.54762	0.76
TCONS_00066358	SEQ2068	0.03615	2.31	TCONS_00055628	SEQ1921	0.54762	0.76
TCONS_00004915	SEQ1109	0.04322	0.15	TCONS_00045230	SEQ1747	0.54762	0.76
TCONS_00050234	SEQ1855	0.04587	0.19	TCONS_00027402	SEQ1445	0.54762	0.75
TCONS_00000601	SEQ1037	0.04653	0.44	TCONS_00035975	SEQ1594	0.54762	0.75
TCONS_00008841	SEQ1158	0.05556	0.44	TCONS_00014260	SEQ1248	0.54762	0.74
TCONS_00050014	SEQ1803	0.05556	0.44	TCONS_00027932	SEQ1463	0.54762	0.74
TCONS_00012062	SEQ1202	0.05556	0.43	TCONS_00036814	SEQ1625	0.54762	0.73
TCONS_00008942	SEQ1177	0.05556	0.43	TCONS_00011832	SEQ1192	0.54762	0.68
TCONS_00012009	SEQ1185	0.05556	0.42	TCONS_00050729	SEQ1881	0.54762	0.68
TCONS_00050606	SEQ1861	0.05556	0.32	TCONS_00033750	SEQ1545	0.54762	0.67
TCONS_00035031	SEQ1583	0.05556	0.32	TCONS_00066563	SEQ2107	0.54762	0.65
TCONS_00055481	SEQ1894	0.05556	0.31	TCONS_00027585	SEQ1500	0.54762	0.60
TCONS_00028007	SEQ1498	0.05556	0.15	TCONS_00050731	SEQ1882	0.54762	0.60
TCONS_00035091	SEQ1565	0.05556	2.67	TCONS_00000120	SEQ1029	0.54762	0.59
TCONS_00066501	SEQ2066	0.05556	2.54	TCONS_00045017	SEQ1766	0.54762	0.57
TCONS_00023133	SEQ1357	0.05556	2.54	TCONS_00059243	SEQ1945	0.54762	0.57
TCONS_00005141	SEQ1108	0.05556	2.21	TCONS_00023215	SEQ1375	0.54762	0.53
TCONS_00055535	SEQ1909	0.05556	1.88	TCONS_00005363	SEQ1145	0.59703	0.56
TCONS_00040949	SEQ1706	0.05556	1.88	TCONS_00014200	SEQ1234	0.59816	1.89
TCONS_00036895	SEQ1643	0.05556	1.57	TCONS_00037098	SEQ1633	0.59816	0.74
TCONS_00028131	SEQ1522	0.05556	0.60	TCONS_00027536	SEQ1494	0.59929	1.58
TCONS_00000237	SEQ1052	0.05556	0.57	TCONS_00035088	SEQ1563	0.59929	1.48
TCONS_00027683	SEQ1521	0.05556	0.56	TCONS_00008776	SEQ1180	0.59929	0.71
TCONS_00012063	SEQ1203	0.05556	0.56	TCONS_00019694	SEQ1291	0.59929	0.70
TCONS_00062422	SEQ2040	0.05556	0.54	TCONS_00000321	SEQ1069	0.60040	1.81
TCONS_00024801	SEQ1392	0.05701	0.15	TCONS_00017396	SEQ1278	0.60040	1.63
TCONS_00068994	SEQ2110	0.05701	6.03	TCONS_00040930	SEQ1700	0.60040	1.50
TCONS_00008747	SEQ1175	0.05933	4.40	TCONS_00066384	SEQ2081	0.60040	1.49
TCONS_00066312	SEQ2053	0.07201	1.09	TCONS_00036109	SEQ1601	0.60040	1.47
TCONS_00050655	SEQ1875	0.07464	0.19	TCONS_00050306	SEQ1870	0.60040	1.18
TCONS_00040935	SEQ1702	0.07491	6.49	TCONS_00005183	SEQ1111	0.60040	1.16
TCONS_00045332	SEQ1775	0.09269	0.31	TCONS_00000523	SEQ1019	0.60040	1.01
TCONS_00062739	SEQ2052	0.09269	2.40	TCONS_00062549	SEQ1979	0.60040	0.80
TCONS_00035032	SEQ1585	0.09369	0.46	TCONS_00066479	SEQ2064	0.60040	0.77
TCONS_00014419	SEQ1250	0.09369	0.40	TCONS_00062496	SEQ1966	0.60724	>100
TCONS_00045210	SEQ1742	0.09369	0.19	TCONS_00027590	SEQ1504	0.60724	10.54
TCONS_00040809	SEQ1720	0.09369	6.83	TCONS_00000531	SEQ1020	0.60724	2.40
TCONS_00021525	SEQ1313	0.09369	1.77	TCONS_00028006	SEQ1497	0.60724	1.02
TCONS_00066459	SEQ2058	0.09369	1.71	TCONS_00040662	SEQ1694	0.66231	1.25
TCONS_00000337	SEQ1073	0.09369	0.59	TCONS_00040905	SEQ1688	0.66843	1.54

TCONS_00028030	SEQ1505	0.09369	0.57	TCONS_00008965	SEQ1181	0.67040	2.00
TCONS_00027502	SEQ1479	0.09369	0.56	TCONS_00014150	SEQ1226	0.67040	1.90
TCONS_00000744	SEQ1071	0.09524	0.50	TCONS_00062278	SEQ1970	0.67137	0.36
TCONS_00059197	SEQ1930	0.09524	0.49	TCONS_00008851	SEQ1164	0.67137	0.19
TCONS_00037029	SEQ1675	0.09524	0.48	TCONS_00062704	SEQ2046	0.67137	1.16
TCONS_00045125	SEQ1790	0.09524	0.47	TCONS_00055724	SEQ1897	0.67137	0.69
TCONS_00066422	SEQ2093	0.09524	0.46	TCONS_00050563	SEQ1836	0.67234	2.39
TCONS_00017476	SEQ1261	0.09524	0.46	TCONS_00044945	SEQ1739	0.67234	1.36
TCONS_00000765	SEQ1085	0.09524	0.46	TCONS_00005005	SEQ1127	0.67234	0.71
TCONS_00012067	SEQ1204	0.09524	0.41	TCONS_00019799	SEQ1306	0.67424	1.48
TCONS_00050090	SEQ1814	0.09524	0.37	TCONS_00050235	SEQ1856	0.67424	1.06
TCONS_00027933	SEQ1464	0.09524	0.37	TCONS_00008677	SEQ1154	0.67424	0.57
TCONS_00019766	SEQ1300	0.09524	0.26	TCONS_00059214	SEQ1938	0.67517	2.88
TCONS_00005240	SEQ1115	0.09524	0.26	TCONS_00059212	SEQ1936	0.67517	2.41
TCONS_00005376	SEQ1147	0.09524	4.67	TCONS_00017530	SEQ1282	0.67517	1.93
TCONS_00028169	SEQ1538	0.09524	2.52	TCONS_00000551	SEQ1023	0.67517	1.49
TCONS_00055703	SEQ1892	0.09524	2.38	TCONS_00027471	SEQ1454	0.67517	0.86
TCONS_00021393	SEQ1318	0.09524	2.12	TCONS_00027750	SEQ1429	0.67517	0.70
TCONS_00028111	SEQ1513	0.09524	1.89	TCONS_00027703	SEQ1526	0.67517	0.54
TCONS_00000468	SEQ1014	0.09524	1.86	TCONS_00036836	SEQ1630	0.69048	0.47
TCONS_00027920	SEQ1455	0.09524	1.82	TCONS_00062275	SEQ1968	0.69048	0.34
TCONS_00036021	SEQ1604	0.09524	1.79	TCONS_00050089	SEQ1813	0.69048	0.29
TCONS_00036894	SEQ1642	0.09524	1.75	TCONS_00017348	SEQ1262	0.69048	2.42
TCONS_00062311	SEQ1996	0.09524	1.71	TCONS_00044919	SEQ1733	0.69048	2.23
TCONS_00027931	SEQ1462	0.09524	1.70	TCONS_00023221	SEQ1380	0.69048	1.93
TCONS_00021544	SEQ1320	0.09524	1.59	TCONS_00023323	SEQ1359	0.69048	1.91
TCONS_00021556	SEQ1332	0.09524	1.56	TCONS_00027767	SEQ1438	0.69048	1.88
TCONS_00045262	SEQ1758	0.09524	1.51	TCONS_00036034	SEQ1610	0.69048	1.81
TCONS_00019840	SEQ1292	0.09524	0.66	TCONS_00028167	SEQ1537	0.69048	1.76
TCONS_00033666	SEQ1553	0.09524	0.61	TCONS_00012068	SEQ1205	0.69048	1.73
TCONS_00026547	SEQ1410	0.09524	0.58	TCONS_00023174	SEQ1368	0.69048	1.72
TCONS_00023102	SEQ1346	0.09524	0.56	TCONS_00028054	SEQ1508	0.69048	1.60
TCONS_00014407	SEQ1245	0.09524	0.52	TCONS_00062558	SEQ1994	0.69048	1.55
TCONS_00062324	SEQ2004	0.09524	0.52	TCONS_00045182	SEQ1799	0.69048	1.52
TCONS_00044977	SEQ1753	0.11496	2.62	TCONS_00027944	SEQ1482	0.69048	1.44
TCONS_00028123	SEQ1519	0.11496	2.31	TCONS_00040703	SEQ1707	0.69048	1.44
TCONS_00055574	SEQ1917	0.11496	0.52	TCONS_00028113	SEQ1515	0.69048	1.43
TCONS_00011923	SEQ1208	0.11607	0.32	TCONS_00045346	SEQ1781	0.69048	1.41
TCONS_00026753	SEQ1424	0.11607	6.14	TCONS_00000260	SEQ1054	0.69048	1.39
TCONS_00040926	SEQ1698	0.11752	0.15	TCONS_00055508	SEQ1899	0.69048	1.38
TCONS_00008975	SEQ1183	0.13386	0.41	TCONS_00050070	SEQ1806	0.69048	1.33
TCONS_00040879	SEQ1681	0.13756	3.00	TCONS_00035093	SEQ1570	0.69048	1.29
TCONS_00026537	SEQ1408	0.13756	2.67	TCONS_00005037	SEQ1136	0.69048	1.29

TCONS_00062522	SEQ1976	0.13879	0.14	TCONS_00000650	SEQ1049	0.69048	1.29
TCONS_00005286	SEQ1134	0.13879	0.13	TCONS_00027494	SEQ1468	0.69048	1.28
TCONS_00033735	SEQ1543	0.13879	3.16	TCONS_00066504	SEQ2069	0.69048	1.27
TCONS_00000311	SEQ1063	0.13879	0.55	TCONS_00008871	SEQ1169	0.69048	1.26
TCONS_00000139	SEQ1035	0.14124	0.47	TCONS_00027416	SEQ1449	0.69048	1.25
TCONS_00037036	SEQ1616	0.14124	0.32	TCONS_00062579	SEQ2018	0.69048	1.24
TCONS_00040743	SEQ1715	0.14246	0.43	TCONS_00014136	SEQ1223	0.69048	1.23
TCONS_00037019	SEQ1672	0.14246	2.20	TCONS_00021619	SEQ1341	0.69048	1.23
TCONS_00037027	SEQ1674	0.14246	1.96	TCONS_00000009	SEQ1011	0.69048	1.23
TCONS_00040820	SEQ1721	0.14246	0.84	TCONS_00040658	SEQ1689	0.69048	1.22
TCONS_00050289	SEQ1866	0.14246	0.61	TCONS_00059271	SEQ1948	0.69048	1.22
TCONS_00045439	SEQ1795	0.14246	0.55	TCONS_00036123	SEQ1605	0.69048	1.20
TCONS_00066425	SEQ2096	0.15079	0.47	TCONS_00000751	SEQ1072	0.69048	1.20
TCONS_00024810	SEQ1396	0.15079	0.46	TCONS_00027400	SEQ1444	0.69048	1.17
TCONS_00027448	SEQ1451	0.15079	0.44	TCONS_00045438	SEQ1794	0.69048	1.15
TCONS_00035100	SEQ1577	0.15079	0.42	TCONS_00062551	SEQ1981	0.69048	1.14
TCONS_00035102	SEQ1579	0.15079	0.40	TCONS_00012059	SEQ1200	0.69048	1.14
TCONS_00059196	SEQ1929	0.15079	0.37	TCONS_00033689	SEQ1560	0.69048	1.13
TCONS_00027930	SEQ1461	0.15079	0.34	TCONS_00050017	SEQ1804	0.69048	1.12
TCONS_00000734	SEQ1066	0.15079	0.22	TCONS_00036113	SEQ1603	0.69048	1.11
TCONS_00024864	SEQ1388	0.15079	7.03	TCONS_00004983	SEQ1121	0.69048	1.11
TCONS_00023390	SEQ1384	0.15079	4.26	TCONS_00033710	SEQ1540	0.69048	1.10
TCONS_00035092	SEQ1569	0.15079	3.18	TCONS_00040895	SEQ1686	0.69048	1.10
TCONS_00059499	SEQ1963	0.15079	2.96	TCONS_00014428	SEQ1253	0.69048	1.07
TCONS_00024865	SEQ1389	0.15079	2.81	TCONS_00005077	SEQ1142	0.69048	1.06
TCONS_00066369	SEQ2072	0.15079	2.64	TCONS_00059297	SEQ1957	0.69048	1.04
TCONS_00035090	SEQ1564	0.15079	2.60	TCONS_00036901	SEQ1646	0.69048	1.03
TCONS_00050071	SEQ1807	0.15079	2.43	TCONS_00055681	SEQ1887	0.69048	1.00
TCONS_00033669	SEQ1555	0.15079	2.31	TCONS_00050638	SEQ1871	0.69048	0.99
TCONS_00004965	SEQ1114	0.15079	2.04	TCONS_00062730	SEQ2051	0.69048	0.98
TCONS_00062729	SEQ2050	0.15079	2.04	TCONS_00005008	SEQ1129	0.69048	0.97
TCONS_00035094	SEQ1573	0.15079	1.97	TCONS_00023131	SEQ1356	0.69048	0.95
TCONS_00045265	SEQ1761	0.15079	1.97	TCONS_00040590	SEQ1677	0.69048	0.94
TCONS_00005138	SEQ1105	0.15079	1.93	TCONS_00023085	SEQ1344	0.69048	0.93
TCONS_00066313	SEQ2054	0.15079	1.90	TCONS_00062305	SEQ1988	0.69048	0.92
TCONS_00027929	SEQ1460	0.15079	1.73	TCONS_00000127	SEQ1034	0.69048	0.92
TCONS_00055752	SEQ1906	0.15079	1.72	TCONS_00062347	SEQ2021	0.69048	0.89
TCONS_00062338	SEQ2009	0.15079	1.68	TCONS_00036813	SEQ1624	0.69048	0.89
TCONS_00005242	SEQ1118	0.15079	1.55	TCONS_00017328	SEQ1260	0.69048	0.89
TCONS_00027945	SEQ1483	0.15079	1.45	TCONS_00036984	SEQ1664	0.69048	0.89
TCONS_00027766	SEQ1437	0.15079	1.43	TCONS_00008856	SEQ1166	0.69048	0.87
TCONS_00026617	SEQ1422	0.15079	1.32	TCONS_00004943	SEQ1113	0.69048	0.86
TCONS_00066314	SEQ2055	0.15079	1.29	TCONS_00062572	SEQ2007	0.69048	0.86

TCONS_00062497	SEQ1967	0.15079	1.22	TCONS_00037090	SEQ1632	0.69048	0.85
TCONS_00019689	SEQ1290	0.15079	1.13	TCONS_00036093	SEQ1595	0.69048	0.83
TCONS_00062351	SEQ2026	0.15079	0.69	TCONS_00066409	SEQ2090	0.69048	0.83
TCONS_00066357	SEQ2067	0.15079	0.65	TCONS_00019776	SEQ1302	0.69048	0.82
TCONS_00062341	SEQ2012	0.15079	0.61	TCONS_00026614	SEQ1421	0.69048	0.82
TCONS_00037250	SEQ1673	0.15079	0.60	TCONS_00059284	SEQ1952	0.69048	0.82
TCONS_00017351	SEQ1265	0.15079	0.60	TCONS_00035978	SEQ1598	0.69048	0.82
TCONS_00019772	SEQ1301	0.15079	0.58	TCONS_00044941	SEQ1737	0.69048	0.81
TCONS_00027507	SEQ1484	0.15079	0.57	TCONS_00000345	SEQ1078	0.69048	0.81
TCONS_00000828	SEQ1096	0.15079	0.55	TCONS_00033664	SEQ1552	0.69048	0.80
TCONS_00036133	SEQ1607	0.15079	0.55	TCONS_00062302	SEQ1985	0.69048	0.79
TCONS_00050012	SEQ1801	0.15079	0.54	TCONS_00035096	SEQ1576	0.69048	0.79
TCONS_00035046	SEQ1588	0.15079	0.54	TCONS_00000006	SEQ1010	0.69048	0.79
TCONS_00044939	SEQ1736	0.15079	0.53	TCONS_00024807	SEQ1393	0.69048	0.77
TCONS_00014261	SEQ1249	0.15079	0.53	TCONS_00000735	SEQ1067	0.69048	0.73
TCONS_00055513	SEQ1901	0.15794	0.03	TCONS_00050598	SEQ1857	0.69048	0.71
TCONS_00019796	SEQ1303	0.16926	0.33	TCONS_00014211	SEQ1239	0.69048	0.71
TCONS_00008691	SEQ1159	0.17190	0.39	TCONS_00027711	SEQ1533	0.69048	0.69
TCONS_00000350	SEQ1084	0.17190	4.60	TCONS_00059424	SEQ1947	0.69048	0.69
TCONS_00000760	SEQ1083	0.17322	0.50	TCONS_00017350	SEQ1264	0.69048	0.65
TCONS_00019866	SEQ1295	0.17322	0.44	TCONS_00044948	SEQ1741	0.69048	0.64
TCONS_00055525	SEQ1907	0.17322	0.40	TCONS_00050219	SEQ1851	0.69048	0.64
TCONS_00033608	SEQ1541	0.17322	2.45	TCONS_00033649	SEQ1546	0.69048	0.64
TCONS_00036061	SEQ1614	0.17322	2.39	TCONS_00066412	SEQ2091	0.69048	0.63
TCONS_00033668	SEQ1554	0.17322	0.51	TCONS_00019765	SEQ1299	0.69048	0.59
TCONS_00021549	SEQ1327	0.17971	>100	TCONS_00014453	SEQ1256	0.69048	0.59
TCONS_00050263	SEQ1860	0.17971	>100	TCONS_00000723	SEQ1058	0.69048	0.54
TCONS_00068989	SEQ2111	0.17971	>100	TCONS_00027530	SEQ1491	0.72408	2.29
TCONS_00037221	SEQ1667	0.20309	0.16	TCONS_00050316	SEQ1872	0.74568	0.27
TCONS_00011831	SEQ1191	0.20309	4.10	TCONS_00055421	SEQ1885	0.75033	2.82
TCONS_00044961	SEQ1746	0.20309	2.12	TCONS_00005243	SEQ1120	0.75033	1.39
TCONS_00066547	SEQ2099	0.20309	2.08	TCONS_00000338	SEQ1074	0.75033	0.78
TCONS_00045056	SEQ1773	0.20450	0.50	TCONS_00066451	SEQ2105	0.75257	0.48
TCONS_00037177	SEQ1657	0.20450	0.46	TCONS_00027505	SEQ1480	0.75257	1.29
TCONS_00066513	SEQ2077	0.20450	1.13	TCONS_00040947	SEQ1704	0.75257	1.14
TCONS_00012089	SEQ1210	0.20450	0.55	TCONS_00021392	SEQ1317	0.75257	0.69
TCONS_00027715	SEQ1535	0.20590	0.24	TCONS_00005182	SEQ1110	0.75257	0.69
TCONS_00000536	SEQ1021	0.20730	0.45	TCONS_00026597	SEQ1420	0.75330	1.73
TCONS_00027498	SEQ1474	0.20730	1.34	TCONS_00062376	SEQ2033	0.75330	1.43
TCONS_00036797	SEQ1621	0.20730	0.75	TCONS_00024847	SEQ1403	0.75330	1.25
TCONS_00062437	SEQ2044	0.20869	0.47	TCONS_00035994	SEQ1602	0.75330	1.23
TCONS_00023224	SEQ1381	0.20869	2.27	TCONS_00045240	SEQ1748	0.75330	1.15
TCONS_00036792	SEQ1620	0.20869	2.03	TCONS_00050459	SEQ1808	0.75330	1.13

TCONS_00045156	SEQ1796	0.20869	1.59	TCONS_00059174	SEQ1924	0.75330	1.09
TCONS_00036933	SEQ1655	0.20869	0.75	TCONS_00050703	SEQ1879	0.75330	1.04
TCONS_00027513	SEQ1487	0.20869	0.51	TCONS_00050115	SEQ1817	0.75330	1.00
TCONS_00050460	SEQ1809	0.22222	0.50	TCONS_00066517	SEQ2082	0.75330	0.96
TCONS_00011972	SEQ1217	0.22222	0.50	TCONS_00008889	SEQ1172	0.75330	0.95
TCONS_00059439	SEQ1956	0.22222	0.49	TCONS_00024818	SEQ1399	0.75330	0.88
TCONS_00037143	SEQ1649	0.22222	0.44	TCONS_00040697	SEQ1701	0.75330	0.85
TCONS_00045093	SEQ1782	0.22222	0.40	TCONS_00028140	SEQ1532	0.75330	0.82
TCONS_00045133	SEQ1792	0.22222	0.33	TCONS_00024808	SEQ1394	0.75330	0.78
TCONS_00035101	SEQ1578	0.22222	0.28	TCONS_00059185	SEQ1927	0.75330	0.76
TCONS_00050087	SEQ1811	0.22222	0.20	TCONS_00019685	SEQ1289	0.75330	0.70
TCONS_00036899	SEQ1644	0.22222	16.33	TCONS_00024812	SEQ1397	0.75330	0.64
TCONS_00036100	SEQ1600	0.22222	4.21	TCONS_00055414	SEQ1883	0.79625	0.32
TCONS_00044916	SEQ1729	0.22222	4.18	TCONS_00068985	SEQ2108	0.79625	1.50
TCONS_00044921	SEQ1734	0.22222	4.01	TCONS_00045134	SEQ1793	0.79717	<0.01
TCONS_00035021	SEQ1566	0.22222	3.65	TCONS_00066372	SEQ2075	0.79717	<0.01
TCONS_00045203	SEQ1731	0.22222	3.29	TCONS_00014398	SEQ1241	0.79717	0.41
TCONS_00017370	SEQ1271	0.22222	2.90	TCONS_00019846	SEQ1293	0.79717	0.28
TCONS_00037224	SEQ1668	0.22222	2.08	TCONS_00037193	SEQ1658	0.79717	0.09
TCONS_00000357	SEQ1087	0.22222	1.98	TCONS_00045108	SEQ1783	0.82306	0.56
TCONS_00035024	SEQ1571	0.22222	1.90	TCONS_00026535	SEQ1406	0.82366	0.70
TCONS_00000204	SEQ1044	0.22222	1.65	TCONS_00026562	SEQ1415	0.82881	0.67
TCONS_00021407	SEQ1326	0.22222	1.65	TCONS_00023171	SEQ1367	0.82936	3.24
TCONS_00050176	SEQ1831	0.22222	1.62	TCONS_00059213	SEQ1937	0.82936	1.57
TCONS_00062700	SEQ2045	0.22222	1.61	TCONS_00019869	SEQ1296	0.82936	1.50
TCONS_00045048	SEQ1772	0.22222	1.61	TCONS_00040700	SEQ1703	0.82936	1.29
TCONS_00021555	SEQ1331	0.22222	1.60	TCONS_00008901	SEQ1173	0.83148	0.32
TCONS_00000202	SEQ1042	0.22222	1.59	TCONS_00024904	SEQ1401	0.83148	2.25
TCONS_00044996	SEQ1755	0.22222	1.58	TCONS_00000121	SEQ1030	0.83148	1.17
TCONS_00021554	SEQ1330	0.22222	1.54	TCONS_00062636	SEQ2035	0.83200	1.11
TCONS_00000809	SEQ1090	0.22222	1.48	TCONS_00023219	SEQ1378	0.83252	0.32
TCONS_00045266	SEQ1762	0.22222	1.47	TCONS_00027819	SEQ1441	0.83252	2.35
TCONS_00027936	SEQ1469	0.22222	1.44	TCONS_00044998	SEQ1763	0.83252	1.57
TCONS_00059492	SEQ1962	0.22222	1.42	TCONS_00045396	SEQ1788	0.83252	1.32
TCONS_00037052	SEQ1619	0.22222	1.42	TCONS_00045394	SEQ1787	0.83252	1.23
TCONS_00059234	SEQ1942	0.22222	0.76	TCONS_00062458	SEQ2048	0.83252	1.18
TCONS_00023148	SEQ1363	0.22222	0.73	TCONS_00066383	SEQ2080	0.83252	0.78
TCONS_00059245	SEQ1946	0.22222	0.69	TCONS_00027705	SEQ1528	0.83252	0.71
TCONS_00017373	SEQ1274	0.22222	0.68	TCONS_00059433	SEQ1953	0.83303	0.12
TCONS_00050224	SEQ1854	0.22222	0.67	TCONS_00008716	SEQ1168	0.83353	0.49
TCONS_00014393	SEQ1240	0.22222	0.65	TCONS_00045024	SEQ1767	0.83353	2.93
TCONS_00062299	SEQ1977	0.22222	0.64	TCONS_00040829	SEQ1723	0.83353	1.89
TCONS_00005308	SEQ1139	0.22222	0.62	TCONS_00055425	SEQ1886	0.83353	1.37

TCONS_00062317	SEQ2002	0.22222	0.61	TCONS_00008905	SEQ1174	0.83353	1.35
TCONS_00040718	SEQ1711	0.22222	0.61	TCONS_00005111	SEQ1144	0.83353	1.15
TCONS_00045364	SEQ1785	0.22222	0.55	TCONS_00055652	SEQ1884	0.83353	1.13
TCONS_00044917	SEQ1732	0.22222	0.54	TCONS_00011967	SEQ1215	0.83353	1.12
TCONS_00017354	SEQ1268	0.22222	0.53	TCONS_00017420	SEQ1283	0.83353	0.91
TCONS_00066426	SEQ2097	0.22222	0.53	TCONS_00045003	SEQ1765	0.83353	0.78
TCONS_00045333	SEQ1776	0.22222	0.52	TCONS_00027533	SEQ1493	0.83404	1.18
TCONS_00000341	SEQ1075	0.22222	0.52	TCONS_00062369	SEQ2032	0.83404	1.14
TCONS_00050220	SEQ1852	0.22222	0.51	TCONS_00008955	SEQ1179	0.83404	1.06
TCONS_00045227	SEQ1745	0.22222	0.51	TCONS_00036780	SEQ1615	0.83404	1.03
TCONS_00050127	SEQ1820	0.23932	0.07	TCONS_00066327	SEQ2060	0.83404	0.92
TCONS_00000692	SEQ1055	0.24184	0.21	TCONS_00000826	SEQ1093	0.83404	0.83
TCONS_00014277	SEQ1254	0.24332	0.90	TCONS_00021579	SEQ1338	0.83404	0.80
TCONS_00066518	SEQ2084	0.24771	0.49	TCONS_00012010	SEQ1186	0.83404	0.65
TCONS_00027340	SEQ1435	0.24771	4.23	TCONS_00062411	SEQ2036	0.83404	0.64
TCONS_00050549	SEQ1835	0.24771	1.25	TCONS_00045214	SEQ1744	0.84127	0.33
TCONS_00045466	SEQ1798	0.24771	0.91	TCONS_00008880	SEQ1171	0.84127	2.77
TCONS_00027787	SEQ1439	0.24771	0.57	TCONS_00014402	SEQ1243	0.84127	1.82
TCONS_00037103	SEQ1635	0.24915	0.47	TCONS_00036891	SEQ1639	0.84127	1.66
TCONS_00023136	SEQ1358	0.24915	5.81	TCONS_00033686	SEQ1557	0.84127	1.60
TCONS_00036799	SEQ1622	0.24915	0.68	TCONS_00012031	SEQ1196	0.84127	1.54
TCONS_00045086	SEQ1780	0.24915	0.66	TCONS_00044995	SEQ1754	0.84127	1.47
TCONS_00000556	SEQ1026	0.24915	0.59	TCONS_00023324	SEQ1360	0.84127	1.40
TCONS_00024823	SEQ1400	0.24915	0.58	TCONS_00037122	SEQ1647	0.84127	1.39
TCONS_00023237	SEQ1382	0.28733	3.80	TCONS_00040917	SEQ1691	0.84127	1.35
TCONS_00050217	SEQ1849	0.29035	0.39	TCONS_00050198	SEQ1840	0.84127	1.33
TCONS_00062303	SEQ1986	0.29035	0.01	TCONS_00037148	SEQ1653	0.84127	1.32
TCONS_00050615	SEQ1865	0.29035	1.60	TCONS_00059205	SEQ1933	0.84127	1.31
TCONS_00036878	SEQ1636	0.29035	1.46	TCONS_00037198	SEQ1659	0.84127	1.31
TCONS_00062432	SEQ2043	0.29184	0.36	TCONS_00005001	SEQ1125	0.84127	1.30
TCONS_00023255	SEQ1385	0.29184	1.40	TCONS_00014417	SEQ1247	0.84127	1.29
TCONS_00040948	SEQ1705	0.29184	0.62	TCONS_00050274	SEQ1863	0.84127	1.28
TCONS_00050540	SEQ1829	0.29333	2.93	TCONS_00062556	SEQ1992	0.84127	1.27
TCONS_00019817	SEQ1310	0.29333	1.52	TCONS_00055750	SEQ1904	0.84127	1.25
TCONS_00062492	SEQ1965	0.29333	0.71	TCONS_00059386	SEQ1940	0.84127	1.22
TCONS_00027901	SEQ1453	0.29480	0.26	TCONS_00028112	SEQ1514	0.84127	1.22
TCONS_00026536	SEQ1407	0.29480	2.63	TCONS_00000041	SEQ1017	0.84127	1.21
TCONS_00000424	SEQ1094	0.29480	1.61	TCONS_00045078	SEQ1777	0.84127	1.21
TCONS_00008797	SEQ1182	0.29480	0.71	TCONS_00050275	SEQ1864	0.84127	1.18
TCONS_00066544	SEQ2098	0.29480	0.63	TCONS_00005140	SEQ1107	0.84127	1.18
TCONS_00040973	SEQ1709	0.30952	0.50	TCONS_00040821	SEQ1722	0.84127	1.17
TCONS_00035104	SEQ1582	0.30952	0.47	TCONS_00050193	SEQ1838	0.84127	1.17
TCONS_00062518	SEQ1972	0.30952	0.46	TCONS_00036032	SEQ1609	0.84127	1.17

TCONS_00033687	SEQ1558	0.30952	0.41	TCONS_00036900	SEQ1645	0.84127	1.16
TCONS_00040951	SEQ1708	0.30952	0.40	TCONS_00026539	SEQ1409	0.84127	1.16
TCONS_00036892	SEQ1640	0.30952	0.38	TCONS_00023164	SEQ1365	0.84127	1.16
TCONS_00035976	SEQ1596	0.30952	0.35	TCONS_00036886	SEQ1637	0.84127	1.15
TCONS_00066533	SEQ2088	0.30952	0.35	TCONS_00000727	SEQ1060	0.84127	1.15
TCONS_00014406	SEQ1244	0.30952	0.34	TCONS_00062577	SEQ2016	0.84127	1.14
TCONS_00040803	SEQ1719	0.30952	0.29	TCONS_00014408	SEQ1246	0.84127	1.14
TCONS_00068990	SEQ2112	0.30952	7.13	TCONS_00028114	SEQ1516	0.84127	1.13
TCONS_00044915	SEQ1728	0.30952	3.75	TCONS_00050609	SEQ1862	0.84127	1.13
TCONS_00045202	SEQ1730	0.30952	2.94	TCONS_00014465	SEQ1258	0.84127	1.12
TCONS_00035025	SEQ1572	0.30952	2.73	TCONS_00000628	SEQ1039	0.84127	1.12
TCONS_00028005	SEQ1496	0.30952	2.50	TCONS_00062574	SEQ2013	0.84127	1.12
TCONS_00068991	SEQ2113	0.30952	2.49	TCONS_00014168	SEQ1228	0.84127	1.12
TCONS_00059210	SEQ1935	0.30952	2.45	TCONS_00005006	SEQ1128	0.84127	1.11
TCONS_00027492	SEQ1459	0.30952	1.96	TCONS_00062301	SEQ1982	0.84127	1.11
TCONS_00055571	SEQ1915	0.30952	1.87	TCONS_00050673	SEQ1878	0.84127	1.11
TCONS_00045041	SEQ1769	0.30952	1.85	TCONS_00027497	SEQ1473	0.84127	1.11
TCONS_00062340	SEQ2011	0.30952	1.84	TCONS_00055751	SEQ1905	0.84127	1.10
TCONS_00062276	SEQ1969	0.30952	1.80	TCONS_00012069	SEQ1206	0.84127	1.10
TCONS_00062557	SEQ1993	0.30952	1.69	TCONS_00062345	SEQ2020	0.84127	1.09
TCONS_00045252	SEQ1752	0.30952	1.62	TCONS_00021571	SEQ1337	0.84127	1.09
TCONS_00012112	SEQ1214	0.30952	1.61	TCONS_00000439	SEQ1099	0.84127	1.08
TCONS_00035027	SEQ1575	0.30952	1.60	TCONS_00050474	SEQ1816	0.84127	1.06
TCONS_00026721	SEQ1417	0.30952	1.60	TCONS_00000180	SEQ1038	0.84127	1.06
TCONS_00014391	SEQ1237	0.30952	1.58	TCONS_00023199	SEQ1373	0.84127	1.05
TCONS_00023372	SEQ1374	0.30952	1.58	TCONS_00012021	SEQ1193	0.84127	1.05
TCONS_00045309	SEQ1771	0.30952	1.57	TCONS_00062575	SEQ2014	0.84127	1.04
TCONS_00062327	SEQ2005	0.30952	1.56	TCONS_00017371	SEQ1272	0.84127	1.02
TCONS_00027493	SEQ1467	0.30952	1.52	TCONS_00023325	SEQ1361	0.84127	1.01
TCONS_00059139	SEQ1923	0.30952	1.52	TCONS_00027938	SEQ1477	0.84127	1.01
TCONS_00021559	SEQ1333	0.30952	1.49	TCONS_00017408	SEQ1279	0.84127	1.00
TCONS_00027495	SEQ1471	0.30952	1.49	TCONS_00028093	SEQ1509	0.84127	1.00
TCONS_00050207	SEQ1846	0.30952	1.48	TCONS_00045472	SEQ1800	0.84127	0.99
TCONS_00012060	SEQ1201	0.30952	1.45	TCONS_00000032	SEQ1015	0.84127	0.99
TCONS_00014141	SEQ1224	0.30952	1.44	TCONS_00005340	SEQ1143	0.84127	0.98
TCONS_00033703	SEQ1561	0.30952	1.41	TCONS_00008833	SEQ1151	0.84127	0.95
TCONS_00035095	SEQ1574	0.30952	1.41	TCONS_00062359	SEQ2028	0.84127	0.95
TCONS_00021427	SEQ1335	0.30952	1.40	TCONS_00050129	SEQ1821	0.84127	0.93
TCONS_00033615	SEQ1542	0.30952	1.33	TCONS_00066371	SEQ2074	0.84127	0.92
TCONS_00045264	SEQ1760	0.30952	1.33	TCONS_00021405	SEQ1325	0.84127	0.91
TCONS_00050203	SEQ1842	0.30952	1.33	TCONS_00062307	SEQ1990	0.84127	0.90
TCONS_00055690	SEQ1890	0.30952	1.31	TCONS_00000733	SEQ1065	0.84127	0.89
TCONS_00000437	SEQ1097	0.30952	1.27	TCONS_00035023	SEQ1568	0.84127	0.89

TCONS_00005137	SEQ1104	0.30952	1.15	TCONS_00050262	SEQ1859	0.84127	0.89
TCONS_00027501	SEQ1478	0.30952	1.15	TCONS_00059274	SEQ1950	0.84127	0.88
TCONS_00021372	SEQ1311	0.30952	1.10	TCONS_00033688	SEQ1559	0.84127	0.88
TCONS_00045398	SEQ1789	0.30952	0.84	TCONS_00062421	SEQ2039	0.84127	0.86
TCONS_00066424	SEQ2095	0.30952	0.83	TCONS_00036132	SEQ1606	0.84127	0.85
TCONS_00066441	SEQ2102	0.30952	0.79	TCONS_00036919	SEQ1650	0.84127	0.84
TCONS_00027951	SEQ1488	0.30952	0.74	TCONS_00000347	SEQ1080	0.84127	0.83
TCONS_00044932	SEQ1735	0.30952	0.73	TCONS_00005011	SEQ1132	0.84127	0.81
TCONS_00019873	SEQ1297	0.30952	0.73	TCONS_00035105	SEQ1584	0.84127	0.80
TCONS_00000438	SEQ1098	0.30952	0.72	TCONS_00024809	SEQ1395	0.84127	0.80
TCONS_00000416	SEQ1091	0.30952	0.71	TCONS_00062350	SEQ2025	0.84127	0.79
TCONS_00040733	SEQ1712	0.30952	0.71	TCONS_00021416	SEQ1328	0.84127	0.78
TCONS_00008952	SEQ1178	0.30952	0.70	TCONS_00035973	SEQ1593	0.84127	0.77
TCONS_00012038	SEQ1198	0.30952	0.70	TCONS_00066532	SEQ2087	0.84127	0.77
TCONS_00059378	SEQ1928	0.30952	0.69	TCONS_00000537	SEQ1022	0.84127	0.76
TCONS_00028120	SEQ1518	0.30952	0.68	TCONS_00027954	SEQ1489	0.84127	0.72
TCONS_00059394	SEQ1941	0.30952	0.67	TCONS_00045402	SEQ1791	0.84127	0.71
TCONS_00059321	SEQ1959	0.30952	0.67	TCONS_00036031	SEQ1608	0.84127	0.69
TCONS_00019850	SEQ1294	0.30952	0.66	TCONS_00008840	SEQ1157	0.84127	0.66
TCONS_00062349	SEQ2024	0.30952	0.65	TCONS_00005136	SEQ1103	0.84127	0.65
TCONS_00017349	SEQ1263	0.30952	0.64	TCONS_00036816	SEQ1626	0.84127	0.65
TCONS_00027658	SEQ1511	0.30952	0.63	TCONS_00000440	SEQ1100	0.84127	0.60
TCONS_00027934	SEQ1465	0.30952	0.60	TCONS_00040802	SEQ1718	0.84127	0.59
TCONS_00035030	SEQ1580	0.30952	0.56	TCONS_00027586	SEQ1501	0.84127	0.53
TCONS_00027702	SEQ1525	0.30952	0.54	TCONS_00021419	SEQ1329	0.91098	1.42
TCONS_00050192	SEQ1837	0.30952	0.54	TCONS_00027825	SEQ1446	0.91418	0.96
TCONS_00062313	SEQ1998	0.30952	0.52	TCONS_00005121	SEQ1146	0.91553	0.47
TCONS_00000002	SEQ1009	0.31430	5.14	TCONS_00027470	SEQ1452	0.91553	0.45
TCONS_00055627	SEQ1920	0.32579	0.31	TCONS_00066456	SEQ2056	0.91553	2.45
TCONS_00027725	SEQ1536	0.33827	2.21	TCONS_00021397	SEQ1321	0.91553	1.52
TCONS_00055542	SEQ1911	0.34427	3.03	TCONS_00040996	SEQ1714	0.91605	1.11
TCONS_00055450	SEQ1888	0.34427	2.82	TCONS_00045110	SEQ1786	0.91631	4.00
TCONS_00017439	SEQ1286	0.34427	2.36	TCONS_00026688	SEQ1412	0.91631	2.52
TCONS_00005307	SEQ1138	0.34427	1.77	TCONS_00000553	SEQ1025	0.91631	1.52
TCONS_00023357	SEQ1370	0.34574	0.49	TCONS_00055512	SEQ1900	0.91631	0.96
TCONS_00000147	SEQ1036	0.34574	0.41	TCONS_00055543	SEQ1912	0.91631	0.96
TCONS_00023193	SEQ1372	0.34574	0.41	TCONS_00033770	SEQ1550	0.91631	0.94
TCONS_00012126	SEQ1220	0.34574	2.38	TCONS_00027706	SEQ1529	0.91631	0.91
TCONS_00028014	SEQ1499	0.34574	2.35	TCONS_00059333	SEQ1961	0.91656	0.41
TCONS_00000427	SEQ1095	0.34574	1.88	TCONS_00028099	SEQ1510	0.91656	0.38
TCONS_00008852	SEQ1165	0.34574	1.80	TCONS_00000792	SEQ1088	0.91656	2.28
TCONS_00021588	SEQ1339	0.34574	1.63	TCONS_00062664	SEQ2037	0.91656	1.67
TCONS_00050505	SEQ1823	0.34574	1.33	TCONS_00000552	SEQ1024	0.91656	1.34

TCONS_00021547	SEQ1324	0.34574	1.24	TCONS_00066463	SEQ2062	0.91656	1.34
TCONS_00066397	SEQ2083	0.34574	0.75	TCONS_00008683	SEQ1156	0.91656	1.32
TCONS_00059405	SEQ1944	0.34574	0.66	TCONS_00000315	SEQ1068	0.91656	1.27
TCONS_00005302	SEQ1137	0.34574	0.64	TCONS_00005264	SEQ1123	0.91656	1.20
TCONS_00055591	SEQ1918	0.34652	0.30	TCONS_00000420	SEQ1092	0.91656	1.10
TCONS_00014196	SEQ1232	0.36605	0.14	TCONS_00050059	SEQ1805	0.91656	1.10
TCONS_00024813	SEQ1398	0.39614	1.29	TCONS_00059183	SEQ1925	0.91656	1.08
TCONS_00026636	SEQ1425	0.39614	1.16	TCONS_00000461	SEQ1013	0.91656	1.01
TCONS_00023192	SEQ1371	0.39761	5.31	TCONS_00059435	SEQ1954	0.91656	0.99
TCONS_00037244	SEQ1670	0.39761	4.55	TCONS_00011961	SEQ1212	0.91656	0.95
TCONS_00000122	SEQ1031	0.39761	1.42	TCONS_00000559	SEQ1028	0.91656	0.92
TCONS_00036983	SEQ1663	0.39761	1.01	TCONS_00066444	SEQ2104	0.91656	0.87
TCONS_00027697	SEQ1524	0.39761	0.87	TCONS_00066318	SEQ2057	0.91656	0.61
TCONS_00000305	SEQ1062	0.39761	0.58	TCONS_00011903	SEQ1207	1.00000	0.50
TCONS_00011954	SEQ1211	0.39908	1.81	TCONS_00045299	SEQ1768	1.00000	0.48
TCONS_00008860	SEQ1167	0.39908	1.45	TCONS_00059464	SEQ1958	1.00000	0.32
TCONS_00017451	SEQ1287	0.40053	3.43	TCONS_00017426	SEQ1284	1.00000	0.27
TCONS_00023333	SEQ1364	0.40053	2.91	TCONS_00050543	SEQ1834	1.00000	0.24
TCONS_00014210	SEQ1238	0.40053	1.59	TCONS_00062333	SEQ2006	1.00000	0.14
TCONS_00066400	SEQ2085	0.40053	1.43	TCONS_00027922	SEQ1456	1.00000	0.07
TCONS_00023086	SEQ1345	0.40053	1.20	TCONS_00069000	SEQ2114	1.00000	56.73
TCONS_00050221	SEQ1853	0.40053	0.78	TCONS_00004967	SEQ1119	1.00000	11.00
TCONS_00036782	SEQ1618	0.40053	0.61	TCONS_00004966	SEQ1117	1.00000	5.60
TCONS_00017363	SEQ1269	0.40053	0.57	TCONS_00000732	SEQ1064	1.00000	3.88
TCONS_00066494	SEQ2065	0.40197	1.89	TCONS_00008879	SEQ1170	1.00000	2.91
TCONS_00023122	SEQ1354	0.40197	1.71	TCONS_00023170	SEQ1366	1.00000	2.68
TCONS_00008663	SEQ1149	0.40197	1.40	TCONS_00012016	SEQ1188	1.00000	2.66
TCONS_00027714	SEQ1534	0.40197	0.90	TCONS_00050175	SEQ1827	1.00000	1.90
TCONS_00037110	SEQ1641	0.40197	0.74	TCONS_00000793	SEQ1089	1.00000	1.79
TCONS_00062521	SEQ1975	0.42063	0.46	TCONS_00050502	SEQ1822	1.00000	1.73
TCONS_00014425	SEQ1252	0.42063	0.43	TCONS_00005241	SEQ1116	1.00000	1.65
TCONS_00050494	SEQ1818	0.42063	0.14	TCONS_00005010	SEQ1131	1.00000	1.59
TCONS_00055453	SEQ1891	0.42063	2.33	TCONS_00000203	SEQ1043	1.00000	1.52
TCONS_00017372	SEQ1273	0.42063	2.03	TCONS_00021599	SEQ1340	1.00000	1.48
TCONS_00066562	SEQ2106	0.42063	2.00	TCONS_00062343	SEQ2019	1.00000	1.39
TCONS_00000343	SEQ1076	0.42063	1.98	TCONS_00040834	SEQ1725	1.00000	1.39
TCONS_00027923	SEQ1458	0.42063	1.77	TCONS_00000837	SEQ1102	1.00000	1.38
TCONS_00023114	SEQ1351	0.42063	1.75	TCONS_00062520	SEQ1974	1.00000	1.38
TCONS_00055786	SEQ1913	0.42063	1.68	TCONS_00055634	SEQ1922	1.00000	1.37
TCONS_00012029	SEQ1195	0.42063	1.61	TCONS_00036922	SEQ1651	1.00000	1.36
TCONS_00050177	SEQ1832	0.42063	1.57	TCONS_00050295	SEQ1868	1.00000	1.36
TCONS_00062728	SEQ2049	0.42063	1.53	TCONS_00021481	SEQ1342	1.00000	1.36
TCONS_00062427	SEQ2042	0.42063	1.50	TCONS_00024798	SEQ1390	1.00000	1.35

TCONS_00066420	SEQ2092	0.42063	1.49	TCONS_00036838	SEQ1631	1.00000	1.33
TCONS_00059385	SEQ1939	0.42063	1.47	TCONS_00050214	SEQ1848	1.00000	1.31
TCONS_00008693	SEQ1160	0.42063	1.42	TCONS_00014187	SEQ1231	1.00000	1.28
TCONS_00027937	SEQ1470	0.42063	1.42	TCONS_00062454	SEQ2047	1.00000	1.28
TCONS_00040601	SEQ1679	0.42063	1.37	TCONS_00017352	SEQ1266	1.00000	1.27
TCONS_00050574	SEQ1845	0.42063	1.36	TCONS_00035075	SEQ1590	1.00000	1.26
TCONS_00027496	SEQ1472	0.42063	1.31	TCONS_00012032	SEQ1197	1.00000	1.24
TCONS_00055468	SEQ1893	0.42063	1.25	TCONS_00036985	SEQ1665	1.00000	1.24
TCONS_00008918	SEQ1176	0.42063	1.24	TCONS_00000348	SEQ1081	1.00000	1.24
TCONS_00027531	SEQ1492	0.42063	1.24	TCONS_00000300	SEQ1061	1.00000	1.23
TCONS_00040919	SEQ1693	0.42063	1.24	TCONS_00004987	SEQ1122	1.00000	1.22
TCONS_00000201	SEQ1041	0.42063	1.22	TCONS_00026734	SEQ1419	1.00000	1.21
TCONS_00021541	SEQ1319	0.42063	1.21	TCONS_00050526	SEQ1824	1.00000	1.20
TCONS_00012109	SEQ1213	0.42063	1.16	TCONS_00011994	SEQ1222	1.00000	1.20
TCONS_00027754	SEQ1432	0.42063	1.16	TCONS_00008682	SEQ1155	1.00000	1.20
TCONS_00027500	SEQ1476	0.42063	1.07	TCONS_00026557	SEQ1413	1.00000	1.18
TCONS_00014326	SEQ1225	0.42063	0.95	TCONS_00019797	SEQ1304	1.00000	1.18
TCONS_00045322	SEQ1774	0.42063	0.93	TCONS_00045042	SEQ1770	1.00000	1.16
TCONS_00026552	SEQ1411	0.42063	0.89	TCONS_00011830	SEQ1190	1.00000	1.16
TCONS_00062559	SEQ1995	0.42063	0.87	TCONS_00037176	SEQ1656	1.00000	1.16
TCONS_00033704	SEQ1562	0.42063	0.85	TCONS_00041064	SEQ1726	1.00000	1.15
TCONS_00037031	SEQ1676	0.42063	0.84	TCONS_00017376	SEQ1277	1.00000	1.15
TCONS_00037216	SEQ1662	0.42063	0.83	TCONS_00037147	SEQ1652	1.00000	1.14
TCONS_00019918	SEQ1308	0.42063	0.82	TCONS_00033755	SEQ1547	1.00000	1.14
TCONS_00050212	SEQ1847	0.42063	0.82	TCONS_00017375	SEQ1276	1.00000	1.13
TCONS_00062420	SEQ2038	0.42063	0.81	TCONS_00005274	SEQ1133	1.00000	1.13
TCONS_00062314	SEQ1999	0.42063	0.81	TCONS_00037212	SEQ1661	1.00000	1.13
TCONS_00019917	SEQ1307	0.42063	0.80	TCONS_00036781	SEQ1617	1.00000	1.13
TCONS_00062315	SEQ2000	0.42063	0.79	TCONS_00036095	SEQ1599	1.00000	1.12
TCONS_00062503	SEQ1971	0.42063	0.78	TCONS_00037152	SEQ1654	1.00000	1.12
TCONS_00050088	SEQ1812	0.42063	0.78	TCONS_00027948	SEQ1485	1.00000	1.11
TCONS_00045244	SEQ1750	0.42063	0.77	TCONS_00066382	SEQ2079	1.00000	1.11
TCONS_00023220	SEQ1379	0.42063	0.77	TCONS_00050168	SEQ1825	1.00000	1.10
TCONS_00059438	SEQ1955	0.42063	0.76	TCONS_00008698	SEQ1162	1.00000	1.10
TCONS_00050204	SEQ1843	0.42063	0.74	TCONS_00037000	SEQ1669	1.00000	1.09
TCONS_00041037	SEQ1717	0.42063	0.74	TCONS_00062548	SEQ1978	1.00000	1.09
TCONS_00062348	SEQ2023	0.42063	0.74	TCONS_00040916	SEQ1690	1.00000	1.08
TCONS_00044971	SEQ1749	0.42063	0.73	TCONS_00062552	SEQ1983	1.00000	1.08
TCONS_00021570	SEQ1336	0.42063	0.73	TCONS_00014387	SEQ1235	1.00000	1.06
TCONS_00027397	SEQ1443	0.42063	0.70	TCONS_00059500	SEQ1964	1.00000	1.06
TCONS_00017374	SEQ1275	0.42063	0.70	TCONS_00011969	SEQ1216	1.00000	1.05
TCONS_00024800	SEQ1391	0.42063	0.69	TCONS_00023276	SEQ1347	1.00000	1.05
TCONS_00045249	SEQ1751	0.42063	0.69	TCONS_00012043	SEQ1199	1.00000	1.05

TCONS_00035103	SEQ1581	0.42063	0.68	TCONS_00014237	SEQ1242	1.00000	1.05
TCONS_00027339	SEQ1434	0.42063	0.67	TCONS_00066440	SEQ2101	1.00000	1.05
TCONS_00014199	SEQ1233	0.42063	0.67	TCONS_00066373	SEQ2076	1.00000	1.04
TCONS_00066535	SEQ2089	0.42063	0.66	TCONS_00023115	SEQ1352	1.00000	1.04
TCONS_00026643	SEQ1427	0.42063	0.65	TCONS_00000349	SEQ1082	1.00000	1.04
TCONS_00066423	SEQ2094	0.42063	0.63	TCONS_00023218	SEQ1377	1.00000	1.04
TCONS_00037245	SEQ1671	0.42063	0.63	TCONS_00055486	SEQ1895	1.00000	1.04
TCONS_00027389	SEQ1440	0.42063	0.61	TCONS_00027760	SEQ1433	1.00000	1.04
TCONS_00000010	SEQ1012	0.42063	0.58	TCONS_00066370	SEQ2073	1.00000	1.04
TCONS_00035977	SEQ1597	0.42063	0.55	TCONS_00040762	SEQ1716	1.00000	1.03
TCONS_00062426	SEQ2041	0.42063	0.51	TCONS_00040893	SEQ1685	1.00000	1.03
TCONS_00033768	SEQ1549	0.42371	<0.01	TCONS_00050604	SEQ1858	1.00000	1.03
TCONS_00045267	SEQ1764	0.42371	<0.01	TCONS_00014165	SEQ1227	1.00000	1.03
TCONS_00055749	SEQ1903	0.42371	<0.01	TCONS_00035022	SEQ1567	1.00000	1.03
TCONS_00062367	SEQ2029	0.42371	<0.01	TCONS_00008675	SEQ1152	1.00000	1.02
TCONS_00000657	SEQ1051	0.42371	>100	TCONS_00008699	SEQ1163	1.00000	1.02
TCONS_00021545	SEQ1322	0.42371	>100	TCONS_00040890	SEQ1683	1.00000	1.02
TCONS_00027410	SEQ1448	0.42371	>100	TCONS_00000224	SEQ1048	1.00000	1.02
TCONS_00040694	SEQ1699	0.42371	>100	TCONS_00055758	SEQ1908	1.00000	1.02
TCONS_00050293	SEQ1867	0.43385	0.32	TCONS_00026652	SEQ1428	1.00000	1.02
TCONS_00024843	SEQ1402	0.43858	10.00	TCONS_00026558	SEQ1414	1.00000	1.02
TCONS_00000344	SEQ1077	0.44069	>100	TCONS_00062589	SEQ2027	1.00000	1.01
TCONS_00045261	SEQ1757	0.44069	>100	TCONS_00045341	SEQ1778	1.00000	1.01
TCONS_00000836	SEQ1101	0.45781	1.19	TCONS_00000655	SEQ1050	1.00000	1.01
TCONS_00050345	SEQ1876	0.45781	1.17	TCONS_00027670	SEQ1520	1.00000	1.01
TCONS_00027963	SEQ1490	0.46060	1.51	TCONS_00027708	SEQ1530	1.00000	1.00
TCONS_00027394	SEQ1442	0.46198	1.94	TCONS_00062581	SEQ2022	1.00000	1.00
TCONS_00027745	SEQ1539	0.46198	1.10	TCONS_00037199	SEQ1660	1.00000	0.99
TCONS_00035112	SEQ1587	0.46334	2.00	TCONS_00014388	SEQ1236	1.00000	0.99
TCONS_00021382	SEQ1312	0.46334	1.70	TCONS_00050301	SEQ1869	1.00000	0.99
TCONS_00019813	SEQ1309	0.46334	1.62	TCONS_00026766	SEQ1426	1.00000	0.98
TCONS_00023106	SEQ1349	0.46334	1.61	TCONS_00050728	SEQ1880	1.00000	0.97
TCONS_00014185	SEQ1230	0.46334	1.53	TCONS_00040670	SEQ1696	1.00000	0.97
TCONS_00045175	SEQ1797	0.46334	0.79	TCONS_00050653	SEQ1874	1.00000	0.97
TCONS_00021388	SEQ1314	0.46334	0.65	TCONS_00050536	SEQ1826	1.00000	0.96
TCONS_00050126	SEQ1819	0.50233	0.15	TCONS_00027752	SEQ1430	1.00000	0.96
TCONS_00066442	SEQ2103	0.51790	1.19	TCONS_00040692	SEQ1697	1.00000	0.96
TCONS_00040618	SEQ1682	0.51925	1.51	TCONS_00017410	SEQ1281	1.00000	0.96
TCONS_00027637	SEQ1507	0.52058	0.45	TCONS_00023300	SEQ1353	1.00000	0.96
TCONS_00050646	SEQ1873	0.52322	0.15	TCONS_00062337	SEQ2008	1.00000	0.96
TCONS_00023144	SEQ1362	0.52452	0.52	TCONS_00040918	SEQ1692	1.00000	0.95
TCONS_00021528	SEQ1315	0.52709	0.40	TCONS_00059276	SEQ1951	1.00000	0.95
TCONS_00027689	SEQ1523	0.52836	0.50	TCONS_00066553	SEQ2100	1.00000	0.95

TCONS_00059396	SEQ1943	0.52836	0.43	TCONS_00040901	SEQ1687	1.00000	0.95
TCONS_00000296	SEQ1059	0.52836	0.40	TCONS_00062578	SEQ2017	1.00000	0.95
TCONS_00023262	SEQ1387	0.52836	2.32	TCONS_00035061	SEQ1589	1.00000	0.95
TCONS_00012120	SEQ1219	0.52836	2.13	TCONS_00000281	SEQ1056	1.00000	0.95
TCONS_00000773	SEQ1086	0.52836	1.58	TCONS_00066505	SEQ2070	1.00000	0.94
TCONS_00017460	SEQ1259	0.52836	1.11	TCONS_00014293	SEQ1257	1.00000	0.94
TCONS_00066515	SEQ2078	0.52836	1.06	TCONS_00040974	SEQ1710	1.00000	0.94
TCONS_00050346	SEQ1877	0.52836	0.55	TCONS_00040857	SEQ1727	1.00000	0.94
TCONS_00066404	SEQ2086	0.52962	1.57	TCONS_00040922	SEQ1695	1.00000	0.94
TCONS_00059427	SEQ1949	0.52962	1.39	TCONS_00027709	SEQ1531	1.00000	0.94
TCONS_00014431	SEQ1255	0.52962	1.06	TCONS_00019822	SEQ1288	1.00000	0.94
TCONS_00019761	SEQ1298	0.52962	0.98	TCONS_00036143	SEQ1611	1.00000	0.94
TCONS_00044946	SEQ1740	0.52962	0.90	TCONS_00055516	SEQ1902	1.00000	0.94
TCONS_00000256	SEQ1053	0.52962	0.75	TCONS_00005003	SEQ1126	1.00000	0.93
TCONS_00062576	SEQ2015	0.54762	3.63	TCONS_00035036	SEQ1586	1.00000	0.93
TCONS_00011991	SEQ1221	0.54762	2.36	TCONS_00033779	SEQ1556	1.00000	0.93
TCONS_00037101	SEQ1634	0.54762	2.17	TCONS_00027753	SEQ1431	1.00000	0.89
TCONS_00055570	SEQ1914	0.54762	2.00	TCONS_00044942	SEQ1738	1.00000	0.88
TCONS_00055541	SEQ1910	0.54762	1.90	TCONS_00037139	SEQ1648	1.00000	0.88
TCONS_00044997	SEQ1756	0.54762	1.58	TCONS_00036041	SEQ1612	1.00000	0.86
TCONS_00026700	SEQ1416	0.54762	1.56	TCONS_00036835	SEQ1629	1.00000	0.86
TCONS_00036986	SEQ1666	0.54762	1.55	TCONS_00068992	SEQ2109	1.00000	0.85
TCONS_00033771	SEQ1551	0.54762	1.54	TCONS_00028116	SEQ1517	1.00000	0.85
TCONS_00062339	SEQ2010	0.54762	1.54	TCONS_00059207	SEQ1934	1.00000	0.85
TCONS_00008820	SEQ1148	0.54762	1.54	TCONS_00062561	SEQ2003	1.00000	0.84
TCONS_00000059	SEQ1018	0.54762	1.46	TCONS_00005060	SEQ1140	1.00000	0.84
TCONS_00055612	SEQ1919	0.54762	1.46	TCONS_00066323	SEQ2059	1.00000	0.79
TCONS_00000708	SEQ1057	0.54762	1.45	TCONS_00000199	SEQ1040	1.00000	0.78
TCONS_00023281	SEQ1350	0.54762	1.44	TCONS_00014424	SEQ1251	1.00000	0.77
TCONS_00011829	SEQ1189	0.54762	1.43	TCONS_00050206	SEQ1844	1.00000	0.73
TCONS_00023217	SEQ1376	0.54762	1.41	TCONS_00050096	SEQ1815	1.00000	0.72
TCONS_00027589	SEQ1503	0.54762	1.39	TCONS_00040833	SEQ1724	1.00000	0.71
TCONS_00027943	SEQ1481	0.54762	1.36	TCONS_00059322	SEQ1960	1.00000	0.67
TCONS_00027704	SEQ1527	0.54762	1.35	TCONS_00036887	SEQ1638	1.00000	0.61
TCONS_00011821	SEQ1187	0.54762	1.34	TCONS_00027663	SEQ1512	1.00000	0.61
TCONS_00027587	SEQ1502	0.54762	1.33	TCONS_00055573	SEQ1916	1.00000	0.58
TCONS_00008676	SEQ1153	0.54762	1.33	TCONS_00027826	SEQ1447	1.00000	0.52
TCONS_00005287	SEQ1135	0.54762	1.32				

Out of 1091 novel brain lncRNAs (Table 7), 492 lncRNAs showed a fold change >1.1 and 431 lncRNAs showed a fold change <0.9 and represent potential novel therapeutic

candidates for silencing or to enhancing such lncRNA in the brain respectively, for treatment of brain disorder, in particular a cognitive disorder such as MCI and Alzheimer.

Out of the 1091 novel brain lncRNAs, some preferred novel lncRNA candidates for use for therapeutic applications with no or limited peripheral side effects are, for example, those novel brain lncRNAs with fold change $\leq$0.5 or $\geq$2 and p value <0.05 in brain and with low or no expression in the peripheral tissues and peripheral body fluids, such as blood.

Out of the total number of 10122 novel and lncRNAs from LINCipedia sequenced by the invention in the AD and control brains and having an expression > 5 CPM (median), 1202 lncRNAs, including 42 novel lncRNAs, which all showed a statistically significant differential expression when comparing AD brains to HC brains were identified. These 1202 lncRNAs are listed in Table 8 and represent therapeutic candidates for treatment of cognitive disorders in particular MCI and Alzheimer.

Table 8: The 1202 lncRNAs with known sequence identified by the present invention having a deficient expression (FC$\leq$0.84) or over-expression (FC$\geq$1.22) in human AD brain temporal cortex versus human healthy control brain temporal cortex.

lncRNA	SEQ	p-value	FC	AUC	lncRNA	SEQ	p-value	FC	AUC
MIR100HG:20	SEQ2115	0.00794	0.01	1.00	NIFK-AS1:24	SEQ3168	0.01587	2.70	0.96
lnc-CBSL-1:6	SEQ2117	0.00794	0.04	1.00	lnc-RABEP2-7:2	SEQ3172	0.01587	2.74	0.96
lnc-SMIM11B-4:3	SEQ2118	0.00794	0.04	1.00	lnc-ZBED4-7:1	SEQ3173	0.01587	2.74	0.96
CD27-AS1:18	SEQ2123	0.00794	0.08	1.00	lnc-GSG1L-1:12	SEQ3175	0.01587	2.77	0.96
lnc-ZRANB2-2:1	SEQ0654	0.00794	0.09	1.00	lnc-SBDS-4:11	SEQ3176	0.01587	2.78	0.96
MIR4500HG:2	SEQ2125	0.00794	0.09	1.00	lnc-OR4F21-3:4	SEQ3178	0.01587	2.80	0.96
LINC02338:2	SEQ2127	0.00794	0.09	1.00	LINC00574:9	SEQ3179	0.01587	2.80	0.96
lnc-GNA13-2:1	SEQ2128	0.00794	0.10	1.00	PSG8-AS1:2	SEQ3188	0.01587	2.97	0.96
lnc-FOXD4L6-1:5	SEQ2129	0.00794	0.11	1.00	lnc-TMEM144-3:1	SEQ3189	0.01587	2.97	0.96
lnc-ZNF644-1:16	SEQ2130	0.00794	0.11	1.00	lnc-RNF24-2:5	SEQ3190	0.01587	2.97	0.96
lnc-SYT16-4:9	SEQ2131	0.00794	0.11	1.00	lnc-ZNF236-7:1	SEQ3191	0.01587	2.98	0.96
THUMPD3-AS1:27	SEQ2132	0.00794	0.12	1.00	lnc-ZNF366-1:1	SEQ3197	0.01587	3.05	0.96
lnc-POM121L2-2:1	SEQ2133	0.00794	0.12	1.00	lnc-ZNF366-1:2	SEQ3198	0.01587	3.05	0.96
LY86-AS1:12	SEQ2134	0.00794	0.13	1.00	ITPKB-AS1:3	SEQ3199	0.01587	3.06	0.96
lnc-ZEB1-10:2	SEQ2135	0.00794	0.14	1.00	DUBR:16	SEQ3200	0.01587	3.06	0.96
lnc-SLC6A12-2:31	SEQ2137	0.00794	0.15	1.00	lnc-FAM71E1-2:9	SEQ3219	0.01587	3.34	0.96
lnc-SETSIP-2:8	SEQ2141	0.00794	0.17	1.00	lnc-ZNF131-1:24	SEQ3221	0.01587	3.38	0.96
lnc-ST3GAL4-10:12	SEQ2143	0.00794	0.17	1.00	XIST:8	SEQ3227	0.01587	3.56	0.96
lnc-DIS3-4:1	SEQ2144	0.00794	0.18	1.00	lnc-GOLGA6L6-14:1	SEQ3228	0.01587	3.60	0.96
lnc-PMM2-6:2	SEQ2146	0.00794	0.18	1.00	lnc-CAPN15-4:1	SEQ3229	0.01587	3.66	0.96
lnc-S100P-4:9	SEQ2152	0.00794	0.20	1.00	lnc-PAICS-3:5	SEQ3230	0.01587	3.67	0.96
lnc-KAAG1-1:1	SEQ2154	0.00794	0.20	1.00	XIST:10	SEQ3233	0.01587	3.74	0.96
lnc-POTEI-2:8	SEQ2155	0.00794	0.21	1.00	LINC01608:15	SEQ3240	0.01587	4.17	0.96
lnc-BANP-1:9	SEQ2160	0.00794	0.23	1.00	lnc-EMCN-1:1	SEQ3241	0.01587	4.17	0.96

lnc-ACSBG1-4:1	SEQ2161	0.00794	0.23	1.00	LINC02199:5	SEQ3244	0.01587	4.21	0.96
TPT1-AS1:42	SEQ2164	0.00794	0.24	1.00	lnc-ST18-4:2	SEQ3245	0.01587	4.22	0.96
RFPL1S:26	SEQ2166	0.00794	0.24	1.00	XIST:43	SEQ3248	0.01587	4.46	0.96
RFPL1S:5	SEQ2167	0.00794	0.24	1.00	LINC01608:16	SEQ3250	0.01587	4.56	0.96
lnc-ZMAT3-3:11	SEQ2169	0.00794	0.24	1.00	lnc-ENGASE-1:1	SEQ3252	0.01587	4.89	0.96
SNHG16:10	SEQ2173	0.00794	0.25	1.00	WAC-AS1:21	SEQ3255	0.01587	5.31	0.96
SNHG16:36	SEQ2174	0.00794	0.25	1.00	lnc-SLC38A8-4:5	SEQ3261	0.01587	5.93	0.96
LINC01122:9	SEQ2175	0.00794	0.25	1.00	lnc-SBDS-4:6	SEQ3263	0.01587	6.66	0.96
lnc-SVOP-1:1	SEQ2179	0.00794	0.26	1.00	lnc-EIF2AK3-1:6	SEQ3267	0.01587	6.96	0.96
lnc-ZNF644-1:29	SEQ2180	0.00794	0.26	1.00	lnc-LTBP3-2:2	SEQ3275	0.01587	24.44	0.96
PWRN1:28	SEQ2187	0.00794	0.28	1.00	lnc-LTBP3-2:3	SEQ3277	0.01587	25.74	0.96
RFPL1S:1	SEQ2191	0.00794	0.29	1.00	lnc-B3GNT5-11:1	SEQ2120	0.03175	0.06	0.92
LINC-PINT:16	SEQ2192	0.00794	0.29	1.00	lnc-DRICH1-3:22	SEQ2122	0.03175	0.08	0.92
lnc-LMF1-3:4	SEQ2202	0.00794	0.30	1.00	lnc-LAMTOR5-1:1	SEQ2124	0.03175	0.09	0.92
PWRN1:9	SEQ2208	0.00794	0.31	1.00	SLC26A4-AS1:17	SEQ2136	0.03175	0.14	0.92
ILF3-AS1:6	SEQ2209	0.00794	0.31	1.00	lnc-DGCR6-7:12	SEQ2138	0.03175	0.16	0.92
lnc-ACO1-10:1	SEQ2213	0.00794	0.31	1.00	LINC02389:3	SEQ2140	0.03175	0.16	0.92
lnc-LMF1-3:19	SEQ2218	0.00794	0.32	1.00	SNHG16:1	SEQ2142	0.03175	0.17	0.92
lnc-ZNF518B-2:2	SEQ2224	0.00794	0.32	1.00	lnc-SOWAHB-5:10	SEQ2145	0.03175	0.18	0.92
lnc-NEK6-2:2	SEQ2226	0.00794	0.32	1.00	lnc-GRAP-3:3	SEQ2147	0.03175	0.18	0.92
lnc-SPON2-1:2	SEQ2237	0.00794	0.35	1.00	lnc-GRAP-3:1	SEQ2148	0.03175	0.18	0.92
lnc-DFNA5-2:9	SEQ2239	0.00794	0.35	1.00	lnc-SRRD-1:6	SEQ2149	0.03175	0.19	0.92
lnc-DUSP1-2:1	SEQ2242	0.00794	0.35	1.00	lnc-POTEI-2:6	SEQ2151	0.03175	0.20	0.92
lnc-GABRA2-1:1	SEQ2243	0.00794	0.36	1.00	lnc-SNRPN-1:5	SEQ2153	0.03175	0.20	0.92
lnc-FNBP1L-2:6	SEQ2246	0.00794	0.36	1.00	DANT2:6	SEQ2157	0.03175	0.21	0.92
LY86-AS1:11	SEQ2252	0.00794	0.36	1.00	lnc-FBRSL1-3:6	SEQ2162	0.03175	0.23	0.92
SNHG8:9	SEQ2255	0.00794	0.37	1.00	lnc-GLB1L2-4:1	SEQ2163	0.03175	0.24	0.92
TTC28-AS1:1	SEQ2262	0.00794	0.38	1.00	LINC02009:2	SEQ2170	0.03175	0.24	0.92
lnc-ZCCHC7-2:24	SEQ2279	0.00794	0.40	1.00	lnc-FBXO28-1:12	SEQ2181	0.03175	0.26	0.92
lnc-IER5-3:1	SEQ2286	0.00794	0.40	1.00	lnc-EMP1-6:1	SEQ2182	0.03175	0.26	0.92
lnc-GABBR1-1:2	SEQ2290	0.00794	0.40	1.00	MRPL23-AS1:9	SEQ2183	0.03175	0.26	0.92
lnc-COMMD1-1:1	SEQ2294	0.00794	0.41	1.00	MAGI2-AS3:83	SEQ2184	0.03175	0.26	0.92
lnc-ZNF45-2:5	SEQ2301	0.00794	0.41	1.00	LINC00664:11	SEQ2185	0.03175	0.27	0.92
lnc-ATP6V1C1-12:1	SEQ2310	0.00794	0.42	1.00	lnc-ZNF721-4:1	SEQ2186	0.03175	0.27	0.92
lnc-KPNA2-6:15	SEQ2322	0.00794	0.43	1.00	lnc-NPBWR1-11:6	SEQ2188	0.03175	0.28	0.92
lnc-C11orf94-6:1	SEQ2324	0.00794	0.43	1.00	CADM3-AS1:3	SEQ2189	0.03175	0.28	0.92
lnc-COL3A1-3:1	SEQ2332	0.00794	0.43	1.00	lnc-COX7B2-1:1	SEQ2190	0.03175	0.29	0.92
lnc-AP3S1-4:15	SEQ2335	0.00794	0.43	1.00	LINC01476:4	SEQ2193	0.03175	0.29	0.92
lnc-PUM3-7:1	SEQ2337	0.00794	0.44	1.00	lnc-C14orf166-2:5	SEQ2194	0.03175	0.30	0.92
lnc-EML1-1:1	SEQ2344	0.00794	0.44	1.00	LINC01007:2	SEQ2196	0.03175	0.30	0.92
lnc-TUBB2A-1:1	SEQ2358	0.00794	0.45	1.00	LINC01007:6	SEQ2197	0.03175	0.30	0.92
OTUD6B-AS1:11	SEQ2360	0.00794	0.46	1.00	LINC01007:4	SEQ2198	0.03175	0.30	0.92
OTUD6B-AS1:9	SEQ2361	0.00794	0.46	1.00	lnc-FZD4-1:5	SEQ2199	0.03175	0.30	0.92

lnc-PRSS22-4:1	SEQ2362	0.00794	0.46	1.00	lnc-WNT5A-3:4	SEQ2200	0.03175	0.30	0.92
lnc-FNDC10-1:4	SEQ2367	0.00794	0.46	1.00	lnc-SRGAP2C-5:2	SEQ2201	0.03175	0.30	0.92
ATP2B1-AS1:5	SEQ2369	0.00794	0.46	1.00	MIR4500HG:1	SEQ2203	0.03175	0.31	0.92
lnc-C7orf77-5:1	SEQ2370	0.00794	0.46	1.00	lnc-LRCH1-1:1	SEQ0437	0.03175	0.31	0.92
lnc-CMTM7-2:3	SEQ2376	0.00794	0.46	1.00	lnc-LIPI-11:1	SEQ2204	0.03175	0.31	0.92
lnc-TEX15-4:1	SEQ2382	0.00794	0.46	1.00	LINC00507:2	SEQ2205	0.03175	0.31	0.92
LINC01128:37	SEQ2391	0.00794	0.47	1.00	lnc-KCNA3-4:2	SEQ2206	0.03175	0.31	0.92
lnc-SNAPC2-2:2	SEQ2400	0.00794	0.48	1.00	COPG2IT1:2	SEQ2207	0.03175	0.31	0.92
lnc-DUSP1-2:2	SEQ2407	0.00794	0.48	1.00	HTR5A-AS1:4	SEQ2210	0.03175	0.31	0.92
lnc-TINCR-3:1	SEQ2415	0.00794	0.48	1.00	lnc-KCNA3-4:1	SEQ2212	0.03175	0.31	0.92
lnc-VSTM5-1:13	SEQ2419	0.00794	0.49	1.00	lnc-APH1B-1:1	SEQ2215	0.03175	0.31	0.92
lnc-MACROD1-5:1	SEQ2422	0.00794	0.49	1.00	lnc-NPY5R-4:1	SEQ0823	0.03175	0.31	0.92
lnc-MASTL-6:1	SEQ2430	0.00794	0.49	1.00	lnc-ABCD2-4:1	SEQ2216	0.03175	0.32	0.92
ZNF529-AS1:14	SEQ2434	0.00794	0.49	1.00	lnc-NOL6-6:1	SEQ2217	0.03175	0.32	0.92
lnc-DPP7-2:2	SEQ2436	0.00794	0.49	1.00	lnc-ACOD1-5:1	SEQ2222	0.03175	0.32	0.92
lnc-EMC3-3:4	SEQ2441	0.00794	0.50	1.00	lnc-SIPA1L1-5:1	SEQ2225	0.03175	0.32	0.92
LINC00667:14	SEQ2442	0.00794	0.50	1.00	lnc-CADPS-1:1	SEQ2227	0.03175	0.32	0.92
lnc-SCPEP1-3:1	SEQ2448	0.00794	0.50	1.00	lnc-HDX-2:1	SEQ2228	0.03175	0.33	0.92
lnc-BBOX1-1:11	SEQ2450	0.00794	0.50	1.00	lnc-ZNF816-2:17	SEQ2229	0.03175	0.33	0.92
lnc-DFNB59-2:22	SEQ2451	0.00794	0.50	1.00	lnc-SENP6-3:11	SEQ2230	0.03175	0.33	0.92
lnc-MTMR2-4:1	SEQ2456	0.00794	0.51	1.00	lnc-KCNH5-3:1	SEQ2232	0.03175	0.34	0.92
lnc-KLHL10-2:1	SEQ2459	0.00794	0.51	1.00	lnc-TENM1-4:2	SEQ2234	0.03175	0.34	0.92
lnc-CCDC7-2:2	SEQ2460	0.00794	0.51	1.00	lnc-NYAP2-2:2	SEQ2236	0.03175	0.34	0.92
RASSF8-AS1:42	SEQ2467	0.00794	0.51	1.00	lnc-IL12RB2-1:1	SEQ2238	0.03175	0.35	0.92
lnc-POTEI-2:7	SEQ2476	0.00794	0.52	1.00	lnc-FAM106A-2:10	SEQ2240	0.03175	0.35	0.92
lnc-SLC10A7-8:1	SEQ2484	0.00794	0.53	1.00	lnc-ENC1-5:1	SEQ2244	0.03175	0.36	0.92
lnc-TRIML1-9:1	SEQ2490	0.00794	0.53	1.00	lnc-MYF5-2:3	SEQ2245	0.03175	0.36	0.92
VLDLR-AS1:21	SEQ2501	0.00794	0.53	1.00	lnc-TGS1-3:1	SEQ2251	0.03175	0.36	0.92
lnc-VAT1-4:1	SEQ2511	0.00794	0.54	1.00	lnc-UBE2B-2:1	SEQ2253	0.03175	0.37	0.92
lnc-NPIPB4-3:2	SEQ2518	0.00794	0.54	1.00	lnc-XKR4-3:1	SEQ2254	0.03175	0.37	0.92
CASC15:17	SEQ2522	0.00794	0.54	1.00	lnc-MPPED2-4:1	SEQ2256	0.03175	0.37	0.92
lnc-PCSK1N-3:3	SEQ2523	0.00794	0.54	1.00	LINC01197:31	SEQ2258	0.03175	0.37	0.92
lnc-MAVS-3:1	SEQ2534	0.00794	0.55	1.00	lnc-SMARCA5-4:18	SEQ0253	0.03175	0.37	0.92
lnc-LRRC57-1:1	SEQ2537	0.00794	0.55	1.00	MIR583HG:2	SEQ2260	0.03175	0.38	0.92
lnc-ESCO2-1:3	SEQ2554	0.00794	0.56	1.00	lnc-COL9A2-1:3	SEQ2261	0.03175	0.38	0.92
lnc-IL31RA-2:1	SEQ2557	0.00794	0.56	1.00	lnc-POM121L2-2:3	SEQ2263	0.03175	0.38	0.92
lnc-ATG12-3:2	SEQ2558	0.00794	0.56	1.00	lnc-SYT16-4:15	SEQ2264	0.03175	0.38	0.92
lnc-FGFBP3-2:3	SEQ2559	0.00794	0.56	1.00	lnc-NAA50-3:1	SEQ2266	0.03175	0.38	0.92
lnc-SPOPL-10:1	SEQ2567	0.00794	0.57	1.00	lnc-CTXN1-1:1	SEQ2267	0.03175	0.38	0.92
lnc-EIF5-2:1	SEQ2571	0.00794	0.57	1.00	lnc-DNAH9-4:1	SEQ2270	0.03175	0.39	0.92
lnc-RAI2-5:1	SEQ2575	0.00794	0.57	1.00	lnc-SNRPN-8:19	SEQ2271	0.03175	0.39	0.92
lnc-MAP1B-2:1	SEQ2587	0.00794	0.58	1.00	lnc-PKIA-3:2	SEQ2273	0.03175	0.39	0.92
lnc-ABTB2-4:2	SEQ2589	0.00794	0.58	1.00	lnc-CALN1-2:1	SEQ2274	0.03175	0.39	0.92

lnc-EIF2B1-1:1	SEQ2595	0.00794	0.59	1.00	lnc-CXorf67-1:5	SEQ2275	0.03175	0.39	0.92
lnc-CHD1L-5:1	SEQ2596	0.00794	0.59	1.00	lnc-CES5A-3:14	SEQ2276	0.03175	0.39	0.92
lnc-ERAL1-3:2	SEQ2598	0.00794	0.59	1.00	SLC8A1-AS1:1	SEQ2277	0.03175	0.39	0.92
lnc-ERAL1-3:4	SEQ2599	0.00794	0.59	1.00	lnc-STRAP-5:1	SEQ2280	0.03175	0.40	0.92
lnc-CCDC85C-2:1	SEQ2601	0.00794	0.59	1.00	KRTAP5-AS1:12	SEQ2281	0.03175	0.40	0.92
lnc-DUXA-4:1	SEQ2603	0.00794	0.59	1.00	lnc-FAM110C-1:11	SEQ2282	0.03175	0.40	0.92
lnc-CHMP2B-1:11	SEQ0679	0.00794	0.60	1.00	lnc-SOWAHB-5:3	SEQ2283	0.03175	0.40	0.92
lnc-SSTR2-1:2	SEQ2604	0.00794	0.60	1.00	lnc-NEUROD1-3:1	SEQ2284	0.03175	0.40	0.92
lnc-PAX1-5:1	SEQ2611	0.00794	0.60	1.00	lnc-SV2B-3:1	SEQ2285	0.03175	0.40	0.92
lnc-ASPHD2-2:2	SEQ2612	0.00794	0.60	1.00	lnc-METTL22-5:1	SEQ2287	0.03175	0.40	0.92
lnc-CDC42SE2-1:10	SEQ2613	0.00794	0.60	1.00	lnc-LINGO2-2:3	SEQ2288	0.03175	0.40	0.92
lnc-TMEM154-2:1	SEQ2616	0.00794	0.60	1.00	lnc-SPIDR-1:1	SEQ2292	0.03175	0.40	0.92
lnc-FEM1B-4:1	SEQ2624	0.00794	0.61	1.00	lnc-KNSTRN-2:1	SEQ2293	0.03175	0.41	0.92
lnc-PYGO1-1:1	SEQ2626	0.00794	0.61	1.00	lnc-TACR1-1:5	SEQ2295	0.03175	0.41	0.92
lnc-F2RL2-6:1	SEQ2628	0.00794	0.61	1.00	lnc-MYF5-2:4	SEQ2296	0.03175	0.41	0.92
LINC00205:7	SEQ2630	0.00794	0.61	1.00	lnc-SYT16-1:1	SEQ2297	0.03175	0.41	0.92
THUMPD3-AS1:78	SEQ2636	0.00794	0.62	1.00	lnc-FAAP100-2:1	SEQ2299	0.03175	0.41	0.92
lnc-SLC35F5-3:11	SEQ2639	0.00794	0.62	1.00	lnc-DLG5-5:1	SEQ2302	0.03175	0.41	0.92
lnc-SH3BGRL2-2:14	SEQ2644	0.00794	0.62	1.00	lnc-GTF2F2-14:1	SEQ2304	0.03175	0.41	0.92
lnc-NEMF-2:2	SEQ2656	0.00794	0.63	1.00	lnc-ITFG1-2:1	SEQ2307	0.03175	0.41	0.92
lnc-CCNG1-1:4	SEQ2660	0.00794	0.63	1.00	lnc-SYNE2-4:1	SEQ2308	0.03175	0.42	0.92
lnc-NEMF-2:1	SEQ2662	0.00794	0.64	1.00	lnc-CD59-2:5	SEQ2309	0.03175	0.42	0.92
lnc-NPR2-2:3	SEQ2685	0.00794	0.65	1.00	lnc-TNFRSF13B-2:1	SEQ2311	0.03175	0.42	0.92
lnc-HDGFL2-6:2	SEQ2688	0.00794	0.65	1.00	lnc-CHRM3-1:1	SEQ2312	0.03175	0.42	0.92
lnc-PLEKHA8-3:8	SEQ2689	0.00794	0.65	1.00	lnc-PPP5D1-1:1	SEQ2313	0.03175	0.42	0.92
lnc-TIMM21-5:8	SEQ2693	0.00794	0.65	1.00	lnc-ZNF674-1:12	SEQ2314	0.03175	0.42	0.92
lnc-EYA3-2:2	SEQ2694	0.00794	0.65	1.00	lnc-CBLN2-1:1	SEQ2318	0.03175	0.43	0.92
lnc-ATP6V1C2-2:2	SEQ2695	0.00794	0.66	1.00	lnc-SCN2A-7:1	SEQ2321	0.03175	0.43	0.92
lnc-RBPMS2-3:1	SEQ2697	0.00794	0.66	1.00	lnc-ZSCAN2-5:11	SEQ2323	0.03175	0.43	0.92
lnc-ADAM30-1:1	SEQ2698	0.00794	0.66	1.00	lnc-PPFIA4-1:1	SEQ2325	0.03175	0.43	0.92
lnc-GPR39-9:1	SEQ2704	0.00794	0.67	1.00	lnc-XRCC5-3:1	SEQ2326	0.03175	0.43	0.92
lnc-ITGB8-10:1	SEQ2706	0.00794	0.67	1.00	lnc-PLEKHB2-4:3	SEQ2327	0.03175	0.43	0.92
lnc-ANKRD55-6:1	SEQ2711	0.00794	0.68	1.00	LINC00665:2	SEQ2328	0.03175	0.43	0.92
lnc-CCDC186-1:1	SEQ2713	0.00794	0.68	1.00	lnc-CTAGE6-1:1	SEQ2329	0.03175	0.43	0.92
lnc-YIF1A-8:3	SEQ2715	0.00794	0.68	1.00	lnc-MEST-2:1	SEQ2333	0.03175	0.43	0.92
lnc-NUDT3-1:3	SEQ2725	0.00794	0.69	1.00	LINC00630:5	SEQ2334	0.03175	0.43	0.92
lnc-NAXD-4:1	SEQ2736	0.00794	0.70	1.00	MEF2C-AS1:49	SEQ2336	0.03175	0.44	0.92
lnc-AMMECR1L-1:2	SEQ2743	0.00794	0.72	1.00	THAP9-AS1:24	SEQ2338	0.03175	0.44	0.92
lnc-ZNF718-5:1	SEQ2744	0.00794	0.73	1.00	lnc-NHS-2:1	SEQ2339	0.03175	0.44	0.92
lnc-FAM72D-8:1	SEQ2753	0.00794	0.75	1.00	SNHG1:49	SEQ2340	0.03175	0.44	0.92
DLEU2:32	SEQ2776	0.00794	1.32	1.00	lnc-POM121L2-2:2	SEQ2341	0.03175	0.44	0.92
lnc-FAAH2-1:9	SEQ2785	0.00794	1.38	1.00	LIMD1-AS1:5	SEQ2342	0.03175	0.44	0.92

lnc-NEK6-2:4	SEQ2786	0.00794	1.38	1.00	lnc-APOL5-4:1	SEQ2343	0.03175	0.44	0.92
lnc-NEK6-2:1	SEQ2787	0.00794	1.38	1.00	lnc-PAM-1:10	SEQ2345	0.03175	0.44	0.92
lnc-PTPN14-2:6	SEQ2790	0.00794	1.40	1.00	lnc-ZFP69B-1:2	SEQ2346	0.03175	0.44	0.92
lnc-MAFF-6:1	SEQ2792	0.00794	1.41	1.00	lnc-ZFP69B-1:1	SEQ2347	0.03175	0.44	0.92
lnc-ANXA2R-6:1	SEQ2793	0.00794	1.41	1.00	lnc-PDK3-1:1	SEQ2348	0.03175	0.44	0.92
lnc-SPATA21-4:6	SEQ2798	0.00794	1.42	1.00	lnc-KBTBD6-2:1	SEQ2349	0.03175	0.45	0.92
lnc-ECHDC3-8:1	SEQ2799	0.00794	1.44	1.00	lnc-VPS33B-6:1	SEQ2350	0.03175	0.45	0.92
lnc-RBM19-2:1	SEQ2800	0.00794	1.45	1.00	lnc-SMURF1-2:1	SEQ2351	0.03175	0.45	0.92
CAHM:3	SEQ2810	0.00794	1.49	1.00	lnc-CLEC18B-7:5	SEQ2353	0.03175	0.45	0.92
lnc-OSBPL7-3:2	SEQ2813	0.00794	1.49	1.00	lnc-UGT3A2-3:1	SEQ0389	0.03175	0.45	0.92
lnc-ZNF331-1:1	SEQ2814	0.00794	1.49	1.00	lnc-PTPMT1-2:1	SEQ2354	0.03175	0.45	0.92
lnc-ZNF124-2:4	SEQ2822	0.00794	1.52	1.00	lnc-KIF1C-1:14	SEQ2355	0.03175	0.45	0.92
lnc-MID1-1:14	SEQ2829	0.00794	1.53	1.00	lnc-WBP4-2:9	SEQ2356	0.03175	0.45	0.92
lnc-DERL3-6:1	SEQ2835	0.00794	1.55	1.00	LINC01963:3	SEQ2357	0.03175	0.45	0.92
lnc-NPIPA8-3:1	SEQ2836	0.00794	1.55	1.00	LINC-PINT:59	SEQ2363	0.03175	0.46	0.92
lnc-PIGP-6:2	SEQ2843	0.00794	1.56	1.00	lnc-NMD3-1:1	SEQ2364	0.03175	0.46	0.92
lnc-LRRC56-1:4	SEQ2844	0.00794	1.57	1.00	lnc-MPPE1-8:2	SEQ2365	0.03175	0.46	0.92
lnc-C19orf47-1:1	SEQ2848	0.00794	1.58	1.00	NIPBL-AS1:8	SEQ2366	0.03175	0.46	0.92
lnc-OCIAD2-3:5	SEQ2849	0.00794	1.58	1.00	lnc-HIST2H3D-1:1	SEQ2368	0.03175	0.46	0.92
lnc-KCNRG-1:1	SEQ2856	0.00794	1.59	1.00	lnc-ERCC4-7:1	SEQ2371	0.03175	0.46	0.92
lnc-ZNF169-7:4	SEQ2857	0.00794	1.59	1.00	lnc-PPP5C-1:2	SEQ2372	0.03175	0.46	0.92
lnc-NMS-4:1	SEQ2859	0.00794	1.59	1.00	lnc-GCGR-1:2	SEQ2373	0.03175	0.46	0.92
ASAP1-IT2:1	SEQ2868	0.00794	1.61	1.00	lnc-TBL1XR1-17:1	SEQ2374	0.03175	0.46	0.92
lnc-WDR4-2:5	SEQ2874	0.00794	1.62	1.00	lnc-AKAP12-2:1	SEQ2375	0.03175	0.46	0.92
lnc-MAP3K2-4:1	SEQ2875	0.00794	1.62	1.00	lnc-KHDC3L-2:3	SEQ2377	0.03175	0.46	0.92
LINC01000:7	SEQ2877	0.00794	1.62	1.00	lnc-RBMS2-4:1	SEQ2378	0.03175	0.46	0.92
lnc-C19orf47-3:1	SEQ2881	0.00794	1.63	1.00	lnc-CACNA2D1-1:1	SEQ0897	0.03175	0.46	0.92
lnc-ZNF778-1:10	SEQ2882	0.00794	1.64	1.00	lnc-IPO5-7:1	SEQ0521	0.03175	0.46	0.92
LCMT1-AS1:9	SEQ2883	0.00794	1.64	1.00	lnc-SOWAHB-5:4	SEQ2381	0.03175	0.46	0.92
lnc-BIN3-2:1	SEQ2884	0.00794	1.64	1.00	MIF-AS1:8	SEQ2383	0.03175	0.46	0.92
lnc-FABP2-1:1	SEQ2886	0.00794	1.65	1.00	lnc-NXNL1-5:1	SEQ2384	0.03175	0.47	0.92
lnc-WDR70-5:4	SEQ2893	0.00794	1.67	1.00	lnc-ARHGAP6-2:1	SEQ2385	0.03175	0.47	0.92
lnc-ILKAP-6:1	SEQ2895	0.00794	1.68	1.00	lnc-CACNB2-1:1	SEQ2386	0.03175	0.47	0.92
lnc-CYP2E1-13:1	SEQ2901	0.00794	1.69	1.00	lnc-FAM120C-1:1	SEQ2388	0.03175	0.47	0.92
lnc-ZFP36L1-2:13	SEQ2904	0.00794	1.70	1.00	lnc-CENPVL2-3:1	SEQ2389	0.03175	0.47	0.92
lnc-SCAF11-4:1	SEQ2908	0.00794	1.71	1.00	LINC00884:15	SEQ2390	0.03175	0.47	0.92
lnc-NMRAL1-4:1	SEQ2910	0.00794	1.71	1.00	lnc-LINC00890-7:1	SEQ2393	0.03175	0.47	0.92
lnc-MNX1-10:1	SEQ0322	0.00794	1.72	1.00	lnc-TMCC2-2:1	SEQ2395	0.03175	0.47	0.92
CACTIN-AS1:5	SEQ2914	0.00794	1.73	1.00	lnc-ZNF333-4:2	SEQ2397	0.03175	0.48	0.92
lnc-FAHD2B-1:2	SEQ2915	0.00794	1.73	1.00	PEG3-AS1:1	SEQ2398	0.03175	0.48	0.92
lnc-LHFPL1-2:1	SEQ2916	0.00794	1.73	1.00	lnc-APTX-3:1	SEQ2399	0.03175	0.48	0.92
lnc-TAF9-2:3	SEQ2917	0.00794	1.74	1.00	lnc-PSEN2-4:1	SEQ2403	0.03175	0.48	0.92
lnc-PAG1-4:1	SEQ2928	0.00794	1.76	1.00	lnc-CMBL-8:2	SEQ2404	0.03175	0.48	0.92

lnc-ARMCX4-3:1	SEQ2939	0.00794	1.79	1.00	LINC00174:21	SEQ2406	0.03175	0.48	0.92
lnc-ZNF852-2:3	SEQ2944	0.00794	1.79	1.00	lnc-C8B-4:1	SEQ2410	0.03175	0.48	0.92
lnc-STARD10-1:6	SEQ0840	0.00794	1.80	1.00	lnc-EVX1-15:1	SEQ2412	0.03175	0.48	0.92
lnc-SERPIND1-2:1	SEQ2948	0.00794	1.80	1.00	lnc-BICD1-1:1	SEQ2413	0.03175	0.48	0.92
lnc-PMM2-2:4	SEQ2955	0.00794	1.82	1.00	lnc-SESN1-5:1	SEQ2414	0.03175	0.48	0.92
lnc-CRYM-4:1	SEQ2958	0.00794	1.84	1.00	lnc-DTNA-5:1	SEQ2416	0.03175	0.48	0.92
lnc-PRR26-5:1	SEQ2961	0.00794	1.85	1.00	MIR100HG:97	SEQ2417	0.03175	0.49	0.92
lnc-THAP3-2:2	SEQ2979	0.00794	1.91	1.00	OIP5-AS1:4	SEQ2423	0.03175	0.49	0.92
lnc-NOP9-1:2	SEQ2990	0.00794	1.94	1.00	lnc-AP3S1-4:3	SEQ2424	0.03175	0.49	0.92
lnc-PRPF40B-1:2	SEQ2997	0.00794	1.95	1.00	lnc-SCAF4-1:2	SEQ2425	0.03175	0.49	0.92
lnc-SAMD11-14:1	SEQ3001	0.00794	1.97	1.00	lnc-SNRPN-8:5	SEQ2426	0.03175	0.49	0.92
lnc-STX8-4:1	SEQ3002	0.00794	1.97	1.00	lnc-SRPRB-1:1	SEQ2427	0.03175	0.49	0.92
lnc-NRDE2-3:1	SEQ3003	0.00794	1.98	1.00	lnc-SLC3A2-6:1	SEQ2428	0.03175	0.49	0.92
lnc-SLC29A4-5:5	SEQ3004	0.00794	1.99	1.00	lnc-TMEM185B-9:1	SEQ2432	0.03175	0.49	0.92
lnc-SZT2-2:3	SEQ3006	0.00794	2.00	1.00	lnc-FGF13-1:1	SEQ2435	0.03175	0.49	0.92
lnc-SLC39A11-1:34	SEQ3008	0.00794	2.00	1.00	lnc-CHMP2B-5:1	SEQ2437	0.03175	0.50	0.92
lnc-MAFF-2:1	SEQ3013	0.00794	2.01	1.00	lnc-LASP1-5:1	SEQ2438	0.03175	0.50	0.92
lnc-ATP6V0E2-1:1	SEQ3014	0.00794	2.01	1.00	lnc-DAPP1-8:3	SEQ2439	0.03175	0.50	0.92
lnc-PHB2-7:1	SEQ3018	0.00794	2.02	1.00	SOX1-OT:5	SEQ2440	0.03175	0.50	0.92
lnc-AGRP-1:26	SEQ3020	0.00794	2.04	1.00	lnc-AADACL2-4:1	SEQ2443	0.03175	0.50	0.92
lnc-PPARA-3:13	SEQ3022	0.00794	2.04	1.00	SLC8A1-AS1:32	SEQ2444	0.03175	0.50	0.92
lnc-USP6-2:20	SEQ3027	0.00794	2.05	1.00	SNHG6:10	SEQ2446	0.03175	0.50	0.92
lnc-CANX-1:10	SEQ3029	0.00794	2.06	1.00	lnc-SLC25A3-7:1	SEQ2447	0.03175	0.50	0.92
lnc-ZMYND19-2:1	SEQ3032	0.00794	2.06	1.00	lnc-GBP2-1:2	SEQ2449	0.03175	0.50	0.92
lnc-DHRS7B-1:6	SEQ3034	0.00794	2.06	1.00	lnc-MRPS14-1:6	SEQ2452	0.03175	0.50	0.92
lnc-LEF1-3:13	SEQ3036	0.00794	2.07	1.00	lnc-FZD4-1:6	SEQ2454	0.03175	0.51	0.92
SMCR5:1	SEQ3037	0.00794	2.07	1.00	lnc-ZNF275-4:1	SEQ2455	0.03175	0.51	0.92
SRP14-AS1:20	SEQ3039	0.00794	2.08	1.00	lnc-CIB1-1:1	SEQ2457	0.03175	0.51	0.92
lnc-ERMARD-2:6	SEQ3042	0.00794	2.09	1.00	lnc-TMEM57-1:2	SEQ2461	0.03175	0.51	0.92
lnc-C8orf48-7:1	SEQ3046	0.00794	2.10	1.00	lnc-FOXM1-1:1	SEQ2462	0.03175	0.51	0.92
lnc-PPARA-3:7	SEQ3050	0.00794	2.12	1.00	lnc-CKAP2L-2:1	SEQ2463	0.03175	0.51	0.92
lnc-MISP3-5:1	SEQ3052	0.00794	2.13	1.00	RNF219-AS1:17	SEQ2464	0.03175	0.51	0.92
lnc-NAV1-9:6	SEQ3053	0.00794	2.13	1.00	lnc-DEFB115-5:2	SEQ2465	0.03175	0.51	0.92
lnc-HEATR4-5:1	SEQ3063	0.00794	2.16	1.00	lnc-POLD3-1:2	SEQ2469	0.03175	0.52	0.92
lnc-TEF-1:1	SEQ3075	0.00794	2.21	1.00	lnc-ZNF587-2:1	SEQ2470	0.03175	0.52	0.92
lnc-ZNF541-4:1	SEQ3078	0.00794	2.21	1.00	lnc-CENPM-4:1	SEQ2475	0.03175	0.52	0.92
HDAC2-AS2:10	SEQ3080	0.00794	2.22	1.00	lnc-MTA3-7:2	SEQ2477	0.03175	0.52	0.92
lnc-CAND2-2:5	SEQ3083	0.00794	2.23	1.00	lnc-GPR180-8:1	SEQ2478	0.03175	0.52	0.92
lnc-CAND2-2:6	SEQ3084	0.00794	2.23	1.00	lnc-DNAL1-1:1	SEQ2480	0.03175	0.52	0.92
lnc-CD40LG-2:9	SEQ3085	0.00794	2.24	1.00	lnc-SUMF1-18:1	SEQ2482	0.03175	0.52	0.92
lnc-PHYHD1-1:1	SEQ3086	0.00794	2.24	1.00	lnc-BAZ1A-2:1	SEQ2485	0.03175	0.53	0.92
lnc-PDYN-1:9	SEQ3089	0.00794	2.26	1.00	lnc-POTEI-2:11	SEQ2488	0.03175	0.53	0.92
lnc-MB-6:1	SEQ3094	0.00794	2.27	1.00	lnc-AACS-5:1	SEQ2489	0.03175	0.53	0.92

lnc-DNAL4-4:1	SEQ3095	0.00794	2.28	1.00	lnc-MOCS1-3:1	SEQ2491	0.03175	0.53	0.92
lnc-CTXN1-6:1	SEQ3096	0.00794	2.28	1.00	lnc-TFRC-7:2	SEQ2492	0.03175	0.53	0.92
lnc-TUBA1C-1:14	SEQ3099	0.00794	2.29	1.00	lnc-PSMC5-4:1	SEQ2496	0.03175	0.53	0.92
lnc-SHC3-5:3	SEQ3102	0.00794	2.30	1.00	lnc-CCDC125-1:6	SEQ2497	0.03175	0.53	0.92
lnc-SNRNP35-2:1	SEQ3103	0.00794	2.30	1.00	lnc-NDUFAB1-1:1	SEQ2498	0.03175	0.53	0.92
ATXN2-AS:5	SEQ3104	0.00794	2.30	1.00	lnc-ZNF41-2:1	SEQ2499	0.03175	0.53	0.92
lnc-CHRNE-4:1	SEQ3106	0.00794	2.32	1.00	lnc-C12orf40-1:1	SEQ2500	0.03175	0.53	0.92
lnc-MEGF6-2:1	SEQ3107	0.00794	2.32	1.00	lnc-EXTL3-2:2	SEQ2502	0.03175	0.53	0.92
lnc-CCDC146-4:6	SEQ3108	0.00794	2.32	1.00	lnc-ZFYVE9-2:2	SEQ2503	0.03175	0.53	0.92
lnc-UBE2H-2:3	SEQ3112	0.00794	2.32	1.00	lnc-PXN-1:1	SEQ2506	0.03175	0.53	0.92
lnc-SLC25A6-4:1	SEQ3114	0.00794	2.32	1.00	lnc-RPIA-1:4	SEQ2507	0.03175	0.54	0.92
lnc-POFUT2-5:1	SEQ3120	0.00794	2.37	1.00	lnc-REL-1:3	SEQ2508	0.03175	0.54	0.92
lnc-GNG13-5:1	SEQ3121	0.00794	2.37	1.00	lnc-SBDS-19:2	SEQ2509	0.03175	0.54	0.92
lnc-SEC24A-1:1	SEQ3126	0.00794	2.41	1.00	lnc-GFOD1-2:1	SEQ2510	0.03175	0.54	0.92
lnc-USP34-1:10	SEQ3127	0.00794	2.42	1.00	lnc-ZNF33B-6:1	SEQ0394	0.03175	0.54	0.92
lnc-RDH13-4:1	SEQ3134	0.00794	2.44	1.00	lnc-TACSTD2-2:4	SEQ0020	0.03175	0.54	0.92
lnc-PHB2-6:1	SEQ3135	0.00794	2.45	1.00	lnc-YTHDF3-6:3	SEQ2514	0.03175	0.54	0.92
lnc-DPH1-1:2	SEQ3136	0.00794	2.45	1.00	lnc-YTHDF3-6:1	SEQ2515	0.03175	0.54	0.92
lnc-BAZ1A-4:1	SEQ3138	0.00794	2.46	1.00	lnc-CENPV-2:1	SEQ2516	0.03175	0.54	0.92
lnc-PDE6B-1:11	SEQ3140	0.00794	2.47	1.00	lnc-DUSP1-6:1	SEQ2517	0.03175	0.54	0.92
lnc-SBDS-4:9	SEQ3145	0.00794	2.50	1.00	lnc-MOV10-2:1	SEQ2519	0.03175	0.54	0.92
lnc-PAXIP1-3:2	SEQ3147	0.00794	2.50	1.00	lnc-SHC3-1:2	SEQ2520	0.03175	0.54	0.92
lnc-NKX2-2-2:2	SEQ3150	0.00794	2.52	1.00	lnc-LEKR1-4:9	SEQ2521	0.03175	0.54	0.92
lnc-NLN-3:1	SEQ3152	0.00794	2.53	1.00	lnc-EIF2B1-6:1	SEQ2524	0.03175	0.54	0.92
lnc-SMG1-1:9	SEQ3156	0.00794	2.57	1.00	lnc-HSD11B2-1:1	SEQ2525	0.03175	0.54	0.92
lnc-RIPOR1-1:7	SEQ3158	0.00794	2.57	1.00	lnc-UGDH-3:3	SEQ2526	0.03175	0.54	0.92
lnc-SAMD11-10:1	SEQ3159	0.00794	2.59	1.00	lnc-CBY3-3:2	SEQ2527	0.03175	0.54	0.92
lnc-MOCS1-1:6	SEQ3160	0.00794	2.59	1.00	lnc-C14orf28-2:1	SEQ2528	0.03175	0.54	0.92
lnc-ANKRD9-1:1	SEQ3162	0.00794	2.62	1.00	lnc-FAM60A-3:1	SEQ2531	0.03175	0.54	0.92
MIR663AHG:66	SEQ3165	0.00794	2.67	1.00	lnc-DHX33-1:1	SEQ2533	0.03175	0.55	0.92
lnc-MOCS1-6:1	SEQ3167	0.00794	2.70	1.00	lnc-ARSG-2:8	SEQ2535	0.03175	0.55	0.92
lnc-HNRNPU-8:1	SEQ3170	0.00794	2.72	1.00	lnc-CA6-8:1	SEQ2536	0.03175	0.55	0.92
lnc-KIAA0141-1:2	SEQ3171	0.00794	2.74	1.00	lnc-DEFB115-5:3	SEQ2538	0.03175	0.55	0.92
lnc-HMOX1-2:2	SEQ3174	0.00794	2.75	1.00	lnc-PNLIPRP1-1:2	SEQ2540	0.03175	0.55	0.92
lnc-HDGFL2-7:1	SEQ3180	0.00794	2.83	1.00	lnc-FAM104A-2:1	SEQ2542	0.03175	0.55	0.92
lnc-UBASH3A-6:2	SEQ3182	0.00794	2.91	1.00	lnc-KCNA3-3:6	SEQ2546	0.03175	0.55	0.92
SLC2A1-AS1:15	SEQ3183	0.00794	2.94	1.00	lnc-PNLIPRP1-1:3	SEQ2548	0.03175	0.55	0.92
TRPM2-AS:5	SEQ3184	0.00794	2.95	1.00	lnc-KIAA1586-4:1	SEQ2549	0.03175	0.55	0.92
lnc-AGO2-2:3	SEQ0668	0.00794	2.95	1.00	lnc-H2AFJ-2:7	SEQ2551	0.03175	0.56	0.92
lnc-DENND1A-5:1	SEQ3185	0.00794	2.96	1.00	lnc-MED14-6:1	SEQ2552	0.03175	0.56	0.92
lnc-MOCS1-1:5	SEQ3186	0.00794	2.96	1.00	lnc-LRRC63-6:2	SEQ2555	0.03175	0.56	0.92
lnc-IL3RA-1:24	SEQ3193	0.00794	3.02	1.00	lnc-MAPK6-5:1	SEQ2556	0.03175	0.56	0.92
lnc-GRAP-1:1	SEQ3195	0.00794	3.04	1.00	lnc-CHN1-5:11	SEQ0419	0.03175	0.56	0.92

lnc-ANKRD13A-5:1	SEQ3196	0.00794	3.05	1.00	lnc-ARHGAP28-10:4	SEQ2560	0.03175	0.56	0.92
lnc-SPANXB1-5:4	SEQ3202	0.00794	3.10	1.00	lnc-AIDA-1:1	SEQ2562	0.03175	0.56	0.92
PACRG-AS3:6	SEQ3204	0.00794	3.13	1.00	lnc-CLDN19-3:1	SEQ2564	0.03175	0.56	0.92
lnc-ANKRD13A-5:3	SEQ3206	0.00794	3.14	1.00	lnc-TOR1AIP1-2:1	SEQ2565	0.03175	0.57	0.92
lnc-BCL2L13-4:1	SEQ3208	0.00794	3.15	1.00	lnc-DLGAP5-2:1	SEQ2566	0.03175	0.57	0.92
lnc-TFF3-1:1	SEQ3209	0.00794	3.15	1.00	lnc-TMEM55A-6:1	SEQ2568	0.03175	0.57	0.92
lnc-ZNF585B-5:7	SEQ3212	0.00794	3.20	1.00	lnc-ABTB1-1:1	SEQ2569	0.03175	0.57	0.92
MALAT1:25	SEQ3213	0.00794	3.21	1.00	lnc-KMT2C-1:1	SEQ2570	0.03175	0.57	0.92
lnc-ACSBG2-2:3	SEQ3214	0.00794	3.23	1.00	lnc-GNA14-3:1	SEQ2572	0.03175	0.57	0.92
lnc-HIPK2-1:1	SEQ3215	0.00794	3.23	1.00	lnc-ATG2B-9:2	SEQ2576	0.03175	0.57	0.92
LINC01159:14	SEQ3216	0.00794	3.27	1.00	lnc-IL13RA2-3:1	SEQ2577	0.03175	0.57	0.92
lnc-TMEM53-2:1	SEQ3218	0.00794	3.29	1.00	lnc-SHB-4:1	SEQ2579	0.03175	0.57	0.92
MIR646HG:26	SEQ3222	0.00794	3.38	1.00	lnc-SLC25A32-9:1	SEQ2581	0.03175	0.58	0.92
lnc-MUSK-3:1	SEQ3224	0.00794	3.39	1.00	OIP5-AS1:10	SEQ2582	0.03175	0.58	0.92
lnc-TMEM53-1:1	SEQ3226	0.00794	3.47	1.00	OIP5-AS1:34	SEQ2583	0.03175	0.58	0.92
lnc-NAIP-5:1	SEQ3231	0.00794	3.68	1.00	lnc-SPRED2-22:1	SEQ2584	0.03175	0.58	0.92
lnc-ZNF236-1:7	SEQ3232	0.00794	3.73	1.00	NORAD:8	SEQ2585	0.03175	0.58	0.92
TSIX:1	SEQ3234	0.00794	3.78	1.00	lnc-PHIP-3:1	SEQ2586	0.03175	0.58	0.92
lnc-MPHOSPH10-2:1	SEQ3236	0.00794	3.86	1.00	lnc-MAN2A2-2:3	SEQ2588	0.03175	0.58	0.92
lnc-ENGASE-4:1	SEQ3237	0.00794	3.97	1.00	lnc-DCAF8-1:1	SEQ2590	0.03175	0.58	0.92
HDAC2-AS2:35	SEQ3239	0.00794	4.10	1.00	lnc-MBOAT4-2:1	SEQ2592	0.03175	0.58	0.92
lnc-SPANXB1-5:3	SEQ3242	0.00794	4.19	1.00	lnc-FOXD4L5-18:4	SEQ2593	0.03175	0.58	0.92
lnc-ZNF236-1:6	SEQ3246	0.00794	4.26	1.00	lnc-SPINK2-4:1	SEQ2594	0.03175	0.59	0.92
lnc-THOC1-3:1	SEQ3247	0.00794	4.41	1.00	lnc-MLH1-1:1	SEQ2597	0.03175	0.59	0.92
lnc-TARDBP-5:6	SEQ3249	0.00794	4.51	1.00	lnc-AHCY-4:1	SEQ2600	0.03175	0.59	0.92
lnc-GPR37-1:1	SEQ0926	0.00794	4.72	1.00	lnc-MCTS1-2:1	SEQ2602	0.03175	0.59	0.92
LINC01608:9	SEQ3251	0.00794	4.76	1.00	lnc-SCD-2:4	SEQ2606	0.03175	0.60	0.92
SRP14-AS1:28	SEQ3253	0.00794	5.10	1.00	lnc-FAM103A1-2:5	SEQ2607	0.03175	0.60	0.92
lnc-CXorf51B-1:1	SEQ3257	0.00794	5.47	1.00	lnc-SURF2-4:1	SEQ2609	0.03175	0.60	0.92
lnc-ZNF608-20:2	SEQ3258	0.00794	5.65	1.00	lnc-HAO2-2:26	SEQ2610	0.03175	0.60	0.92
lnc-LEF1-3:4	SEQ3259	0.00794	5.77	1.00	SNHG7:15	SEQ2614	0.03175	0.60	0.92
LINC01515:31	SEQ3260	0.00794	5.90	1.00	lnc-HMG20A-6:1	SEQ2615	0.03175	0.60	0.92
lnc-BCL2L13-5:2	SEQ3262	0.00794	6.65	1.00	lnc-PANK3-13:2	SEQ2618	0.03175	0.60	0.92
lnc-LTBP3-2:6	SEQ3264	0.00794	6.67	1.00	lnc-ATCAY-1:1	SEQ2619	0.03175	0.60	0.92
NR2F1-AS1:49	SEQ3265	0.00794	6.78	1.00	EIF3J-AS1:21	SEQ0261	0.03175	0.61	0.92
LINC01608:12	SEQ3266	0.00794	6.91	1.00	lnc-DNAH8-2:6	SEQ2620	0.03175	0.61	0.92
lnc-NMUR2-4:1	SEQ3268	0.00794	6.99	1.00	lnc-ATOX1-4:1	SEQ2621	0.03175	0.61	0.92
LINC-PINT:27	SEQ3269	0.00794	8.08	1.00	lnc-AGAP2-1:4	SEQ2622	0.03175	0.61	0.92
lnc-DRICH1-3:26	SEQ3271	0.00794	8.28	1.00	lnc-HRASLS-5:3	SEQ2623	0.03175	0.61	0.92
MALAT1:23	SEQ3272	0.00794	10.88	1.00	lnc-HMGCS1-3:1	SEQ2627	0.03175	0.61	0.92
MALAT1:48	SEQ3273	0.00794	10.88	1.00	lnc-PANK3-13:1	SEQ2629	0.03175	0.61	0.92
lnc-BAHCC1-2:1	SEQ3274	0.00794	12.21	1.00	lnc-FAM174A-6:2	SEQ2631	0.03175	0.62	0.92
lnc-NDUFB4-1:3	SEQ2116	0.01116	0.02	1.00	lnc-UCHL3-1:1	SEQ2632	0.03175	0.62	0.92

lnc-CTH-14:1	SEQ2121	0.01193	0.07	1.00	lnc-PALLD-8:1	SEQ2633	0.03175	0.62	0.92
lnc-ZNF717-4:8	SEQ2119	0.01587	0.04	0.96	lnc-ZNF596-9:2	SEQ2634	0.03175	0.62	0.92
lnc-PSMB9-6:1	SEQ2126	0.01587	0.09	0.96	lnc-PTAR1-4:1	SEQ2638	0.03175	0.62	0.92
lnc-SYT16-4:11	SEQ2139	0.01587	0.16	0.96	lnc-GLRX2-1:2	SEQ2640	0.03175	0.62	0.92
lnc-ZNF705B-3:1	SEQ2150	0.01587	0.20	0.96	lnc-PHOSPHO2-2:1	SEQ2641	0.03175	0.62	0.92
lnc-DIRC3-1:4	SEQ2156	0.01587	0.21	0.96	lnc-KLHL28-3:5	SEQ2642	0.03175	0.62	0.92
lnc-NID2-2:1	SEQ2158	0.01587	0.22	0.96	CASC2:1	SEQ2645	0.03175	0.62	0.92
lnc-SYT16-4:10	SEQ2159	0.01587	0.23	0.96	lnc-KIF1C-1:2	SEQ2646	0.03175	0.62	0.92
lnc-MED10-3:1	SEQ2165	0.01587	0.24	0.96	lnc-STARD8-3:1	SEQ2647	0.03175	0.63	0.92
lnc-PRSS27-4:24	SEQ2168	0.01587	0.24	0.96	lnc-ASXL1-3:1	SEQ2650	0.03175	0.63	0.92
lnc-SCARB2-1:4	SEQ2171	0.01587	0.25	0.96	lnc-LPCAT3-1:1	SEQ2652	0.03175	0.63	0.92
lnc-GAPT-10:1	SEQ2172	0.01587	0.25	0.96	MCPH1-AS1:2	SEQ0308	0.03175	0.63	0.92
CERNA1:2	SEQ2176	0.01587	0.25	0.96	ZFAS1:23	SEQ2657	0.03175	0.63	0.92
lnc-HNRNPA2B1-15:16	SEQ2177	0.01587	0.25	0.96	lnc-SSB-2:1	SEQ2661	0.03175	0.63	0.92
THAP9-AS1:27	SEQ2178	0.01587	0.25	0.96	lnc-KANSL2-1:2	SEQ2664	0.03175	0.64	0.92
lnc-LIPI-7:1	SEQ2195	0.01587	0.30	0.96	lnc-BICRAL-3:1	SEQ2666	0.03175	0.64	0.92
lnc-PRDM4-6:5	SEQ2211	0.01587	0.31	0.96	lnc-USP53-8:5	SEQ2668	0.03175	0.64	0.92
lnc-SOCS6-10:1	SEQ2214	0.01587	0.31	0.96	LINC01124:11	SEQ2670	0.03175	0.64	0.92
lnc-UNC80-1:1	SEQ2219	0.01587	0.32	0.96	lnc-TARBP1-6:1	SEQ2671	0.03175	0.64	0.92
lnc-SYT16-4:3	SEQ2220	0.01587	0.32	0.96	lnc-MRPS16-2:4	SEQ2674	0.03175	0.64	0.92
lnc-SYT16-4:6	SEQ2221	0.01587	0.32	0.96	lnc-SIDT2-2:2	SEQ2675	0.03175	0.64	0.92
lnc-SMARCA5-4:7	SEQ2223	0.01587	0.32	0.96	lnc-C11orf94-1:1	SEQ2676	0.03175	0.64	0.92
lnc-USP17L7-1:1	SEQ0746	0.01587	0.33	0.96	lnc-GNA11-3:1	SEQ2681	0.03175	0.65	0.92
LINC00630:38	SEQ2231	0.01587	0.33	0.96	lnc-BTBD1-2:1	SEQ2683	0.03175	0.65	0.92
lnc-GUCY1A3-1:1	SEQ0520	0.01587	0.34	0.96	lnc-MZT2A-19:1	SEQ2684	0.03175	0.65	0.92
lnc-GLIPR1L1-2:3	SEQ0427	0.01587	0.34	0.96	lnc-SMC5-6:1	SEQ2686	0.03175	0.65	0.92
RFPL1S:11	SEQ2233	0.01587	0.34	0.96	lnc-NPIPB4-3:5	SEQ2687	0.03175	0.65	0.92
lnc-PPIE-5:1	SEQ2235	0.01587	0.34	0.96	lnc-TOX4-4:2	SEQ2696	0.03175	0.66	0.92
lnc-ITGBL1-2:1	SEQ2241	0.01587	0.35	0.96	lnc-KCNT1-6:1	SEQ2699	0.03175	0.66	0.92
NR2F1-AS1:6	SEQ2247	0.01587	0.36	0.96	lnc-ATPIF1-2:1	SEQ2700	0.03175	0.66	0.92
RFPL1S:10	SEQ2248	0.01587	0.36	0.96	lnc-ITGB1BP2-2:1	SEQ2701	0.03175	0.66	0.92
CHMP1B-AS1:2	SEQ2249	0.01587	0.36	0.96	lnc-TMEM186-1:2	SEQ2702	0.03175	0.66	0.92
lnc-PPP1R3C-4:1	SEQ2250	0.01587	0.36	0.96	lnc-INAFM2-1:1	SEQ2705	0.03175	0.67	0.92
lnc-SUSD1-1:5	SEQ0638	0.01587	0.37	0.96	lnc-RGPD8-5:2	SEQ2707	0.03175	0.67	0.92
LINC01184:30	SEQ2257	0.01587	0.37	0.96	lnc-CDT1-1:1	SEQ2708	0.03175	0.67	0.92
lnc-TMSB15A-3:1	SEQ2259	0.01587	0.37	0.96	lnc-BTBD6-2:1	SEQ2709	0.03175	0.67	0.92
lnc-COPG2-3:1	SEQ2265	0.01587	0.38	0.96	lnc-CRHR2-3:1	SEQ2710	0.03175	0.67	0.92
lnc-SNRPN-8:36	SEQ2268	0.01587	0.38	0.96	PINK1-AS:1	SEQ2712	0.03175	0.68	0.92
lnc-TYRO3-3:1	SEQ2269	0.01587	0.39	0.96	lnc-GUSB-4:1	SEQ2716	0.03175	0.68	0.92
lnc-ZNF736-1:2	SEQ2272	0.01587	0.39	0.96	lnc-GP1BA-1:1	SEQ2718	0.03175	0.68	0.92
lnc-NT5E-11:3	SEQ2278	0.01587	0.39	0.96	lnc-EDEM3-7:3	SEQ0272	0.03175	0.68	0.92
lnc-MUC20-5:2	SEQ2289	0.01587	0.40	0.96	lnc-PRCP-1:1	SEQ2720	0.03175	0.68	0.92
lnc-FANCM-8:3	SEQ2291	0.01587	0.40	0.96	lnc-ALX4-17:1	SEQ2722	0.03175	0.68	0.92

lnc-FSHR-4:1	SEQ2298	0.01587	0.41	0.96	lnc-AP3S1-1:3	SEQ2723	0.03175	0.68	0.92
lnc-LIPI-4:6	SEQ2300	0.01587	0.41	0.96	lnc-FUT9-1:1	SEQ2724	0.03175	0.69	0.92
lnc-VPREB1-7:3	SEQ2303	0.01587	0.41	0.96	lnc-CHD2-13:2	SEQ2726	0.03175	0.69	0.92
lnc-KHDC3L-2:16	SEQ2305	0.01587	0.41	0.96	lnc-BAG3-1:1	SEQ2727	0.03175	0.69	0.92
lnc-CHST7-2:1	SEQ2306	0.01587	0.41	0.96	lnc-TMEM243-1:1	SEQ2728	0.03175	0.69	0.92
lnc-PARD3B-4:1	SEQ2315	0.01587	0.42	0.96	lnc-RPS6KB1-1:7	SEQ2729	0.03175	0.69	0.92
SNHG3:5	SEQ2316	0.01587	0.42	0.96	lnc-ZC3HC1-4:1	SEQ2731	0.03175	0.70	0.92
lnc-ZNF704-7:6	SEQ2317	0.01587	0.42	0.96	lnc-PINK1-2:1	SEQ2734	0.03175	0.70	0.92
lnc-PRMT6-9:1	SEQ2319	0.01587	0.43	0.96	lnc-RTL9-2:1	SEQ2735	0.03175	0.70	0.92
lnc-GNA13-2:13	SEQ2320	0.01587	0.43	0.96	lnc-MAML3-2:1	SEQ0438	0.03175	0.71	0.92
lnc-FGFBP3-2:2	SEQ2330	0.01587	0.43	0.96	lnc-NOB1-1:1	SEQ2738	0.03175	0.71	0.92
lnc-NOL4-6:1	SEQ2331	0.01587	0.43	0.96	lnc-ANAPC11-2:9	SEQ2739	0.03175	0.71	0.92
IDI2-AS1:5	SEQ2352	0.01587	0.45	0.96	lnc-C14orf177-5:1	SEQ2740	0.03175	0.72	0.92
lnc-ZNF316-3:8	SEQ2359	0.01587	0.45	0.96	lnc-ACTRT3-5:1	SEQ2741	0.03175	0.72	0.92
ADIRF-AS1:2	SEQ2379	0.01587	0.46	0.96	lnc-GPBP1L1-1:8	SEQ2745	0.03175	0.73	0.92
lnc-CA6-8:2	SEQ2380	0.01587	0.46	0.96	lnc-ZNF221-2:6	SEQ2746	0.03175	0.73	0.92
lnc-DCAF4L1-2:1	SEQ2387	0.01587	0.47	0.96	lnc-LEAP2-2:1	SEQ2749	0.03175	0.74	0.92
SNAI3-AS1:6	SEQ2392	0.01587	0.47	0.96	lnc-CIB3-1:2	SEQ2750	0.03175	0.74	0.92
lnc-COX7B-2:1	SEQ2394	0.01587	0.47	0.96	lnc-SLTM-1:2	SEQ0982	0.03175	0.75	0.92
lnc-TAOK3-9:1	SEQ2396	0.01587	0.48	0.96	lnc-NR2C2-1:1	SEQ2751	0.03175	0.75	0.92
LINC01006:1	SEQ2401	0.01587	0.48	0.96	lnc-DFFA-12:2	SEQ2754	0.03175	0.75	0.92
LINC01006:2	SEQ2402	0.01587	0.48	0.96	lnc-PLEKHA8-3:5	SEQ0962	0.03175	0.75	0.92
lnc-AP3S1-1:2	SEQ2405	0.01587	0.48	0.96	lnc-PGBD5-1:1	SEQ2755	0.03175	0.75	0.92
OIP5-AS1:2	SEQ2408	0.01587	0.48	0.96	lnc-CDH8-4:1	SEQ2756	0.03175	0.76	0.92
lnc-FAM172A-7:8	SEQ2409	0.01587	0.48	0.96	lnc-TCTA-2:1	SEQ2757	0.03175	0.76	0.92
lnc-PMM2-6:4	SEQ2411	0.01587	0.48	0.96	lnc-ERVV-2-9:1	SEQ2758	0.03175	0.76	0.92
UGDH-AS1:10	SEQ0407	0.01587	0.49	0.96	lnc-DDX49-1:1	SEQ2759	0.03175	0.76	0.92
lnc-S100P-4:13	SEQ2418	0.01587	0.49	0.96	lnc-HSD11B1L-1:1	SEQ2760	0.03175	0.77	0.92
lnc-ZNF449-3:5	SEQ2420	0.01587	0.49	0.96	lnc-MOGAT2-4:1	SEQ2762	0.03175	0.78	0.92
lnc-ZNF449-3:4	SEQ2421	0.01587	0.49	0.96	lnc-C20orf96-1:1	SEQ2764	0.03175	0.79	0.92
lnc-GRAP2-2:1	SEQ2429	0.01587	0.49	0.96	lnc-TRIM59-1:1	SEQ2766	0.03175	0.79	0.92
lnc-TPTE2-4:1	SEQ2431	0.01587	0.49	0.96	lnc-GSDMB-1:1	SEQ2767	0.03175	0.84	0.92
lnc-H2AFV-3:1	SEQ2433	0.01587	0.49	0.96	lnc-RFNG-1:7	SEQ2768	0.03175	1.22	0.92
lnc-XXYLT1-5:1	SEQ0221	0.01587	0.50	0.96	lnc-SCRN1-1:5	SEQ2769	0.03175	1.25	0.92
lnc-EPC1-5:1	SEQ2445	0.01587	0.50	0.96	lnc-RRN3-3:5	SEQ2770	0.03175	1.26	0.92
lnc-NUB1-4:1	SEQ0126	0.01587	0.50	0.96	lnc-ANKS3-2:1	SEQ2771	0.03175	1.28	0.92
lnc-GPRIN2-2:1	SEQ2453	0.01587	0.50	0.96	lnc-ADAT3-5:1	SEQ2772	0.03175	1.28	0.92
lnc-ACTR10-6:1	SEQ2458	0.01587	0.51	0.96	lnc-TMC8-4:1	SEQ2775	0.03175	1.32	0.92
lnc-KCNE4-7:1	SEQ2466	0.01587	0.51	0.96	EP300-AS1:13	SEQ2778	0.03175	1.34	0.92
lnc-RMDN2-3:24	SEQ2468	0.01587	0.52	0.96	lnc-SLC22A18-1:1	SEQ2779	0.03175	1.34	0.92
OTUD6B-AS1:5	SEQ2471	0.01587	0.52	0.96	lnc-PARVG-5:1	SEQ2781	0.03175	1.35	0.92
lnc-CGREF1-2:1	SEQ2472	0.01587	0.52	0.96	lnc-MRPL3-2:6	SEQ2782	0.03175	1.36	0.92
lnc-FGF23-5:3	SEQ2473	0.01587	0.52	0.96	DUBR:25	SEQ2783	0.03175	1.38	0.92

lnc-FGF23-5:1	SEQ2474	0.01587	0.52	0.96	HDHD5-AS1:6	SEQ2784	0.03175	1.38	0.92
lnc-DLK1-18:121	SEQ2479	0.01587	0.52	0.96	lnc-NPIPB12-1:1	SEQ0822	0.03175	1.39	0.92
lnc-SMARCC2-5:1	SEQ2481	0.01587	0.52	0.96	lnc-CMTM3-1:1	SEQ2789	0.03175	1.39	0.92
lnc-ARHGAP15-2:3	SEQ2483	0.01587	0.52	0.96	lnc-SSH3-5:1	SEQ2791	0.03175	1.40	0.92
EIF3J-AS1:1	SEQ2486	0.01587	0.53	0.96	WDFY3-AS2:5	SEQ2794	0.03175	1.41	0.92
SNHG22:7	SEQ2487	0.01587	0.53	0.96	LINC00342:1	SEQ2795	0.03175	1.41	0.92
lnc-ST7L-5:1	SEQ2493	0.01587	0.53	0.96	lnc-TMEM211-1:1	SEQ2797	0.03175	1.42	0.92
NORAD:9	SEQ2494	0.01587	0.53	0.96	lnc-USP35-11:2	SEQ2802	0.03175	1.45	0.92
lnc-LEKR1-4:10	SEQ2495	0.01587	0.53	0.96	lnc-DHX38-4:13	SEQ2803	0.03175	1.45	0.92
lnc-CT47A1-1:1	SEQ2504	0.01587	0.53	0.96	lnc-RPP25-3:1	SEQ2804	0.03175	1.46	0.92
lnc-SOCS2-1:2	SEQ2505	0.01587	0.53	0.96	SEMA6A-AS1:1	SEQ2805	0.03175	1.47	0.92
lnc-ADGRA3-7:1	SEQ2512	0.01587	0.54	0.96	TRAF3IP2-AS1:58	SEQ2806	0.03175	1.47	0.92
lnc-CHODL-2:2	SEQ2513	0.01587	0.54	0.96	lnc-HBEGF-2:8	SEQ2807	0.03175	1.47	0.92
lnc-SSR3-11:1	SEQ2529	0.01587	0.54	0.96	HYI-AS1:3	SEQ2809	0.03175	1.48	0.92
NORAD:3	SEQ2530	0.01587	0.54	0.96	lnc-WDFY4-2:1	SEQ2812	0.03175	1.49	0.92
NORAD:4	SEQ2532	0.01587	0.55	0.96	lnc-KLHDC4-2:2	SEQ2815	0.03175	1.49	0.92
lnc-CIB3-6:1	SEQ2539	0.01587	0.55	0.96	lnc-CTNS-1:1	SEQ2816	0.03175	1.50	0.92
lnc-LRRK2-1:5	SEQ2541	0.01587	0.55	0.96	lnc-TRPM1-3:1	SEQ0388	0.03175	1.51	0.92
LINC01537:4	SEQ2543	0.01587	0.55	0.96	lnc-AUNIP-1:12	SEQ2821	0.03175	1.52	0.92
lnc-ANAPC11-2:12	SEQ2544	0.01587	0.55	0.96	lnc-MYOM1-4:5	SEQ2823	0.03175	1.52	0.92
lnc-COL20A1-3:2	SEQ2545	0.01587	0.55	0.96	lnc-SPATA21-6:3	SEQ2824	0.03175	1.52	0.92
lnc-JAG1-6:1	SEQ2547	0.01587	0.55	0.96	lnc-AGBL3-2:1	SEQ2825	0.03175	1.52	0.92
NORAD:1	SEQ2550	0.01587	0.55	0.96	lnc-NPIPB12-2:1	SEQ2827	0.03175	1.53	0.92
lnc-WDR77-1:2	SEQ2553	0.01587	0.56	0.96	lnc-C11orf95-1:2	SEQ2828	0.03175	1.53	0.92
lnc-TBCB-1:2	SEQ2561	0.01587	0.56	0.96	lnc-TPT1-2:1	SEQ2830	0.03175	1.54	0.92
lnc-ARMCX1-2:1	SEQ2563	0.01587	0.56	0.96	lnc-SLC25A16-1:2	SEQ2831	0.03175	1.54	0.92
lnc-SRD5A1-2:1	SEQ2573	0.01587	0.57	0.96	lnc-USP6-2:22	SEQ2832	0.03175	1.54	0.92
lnc-ZNF613-7:1	SEQ2574	0.01587	0.57	0.96	lnc-MED9-1:2	SEQ2833	0.03175	1.54	0.92
lnc-MPPE1-8:3	SEQ2578	0.01587	0.57	0.96	lnc-NOP14-3:4	SEQ2834	0.03175	1.54	0.92
lnc-RSPH10B2-1:3	SEQ2580	0.01587	0.57	0.96	lnc-ADAP1-1:1	SEQ2837	0.03175	1.55	0.92
GABPB1-IT1:5	SEQ2591	0.01587	0.58	0.96	lnc-ZFP3-3:1	SEQ2838	0.03175	1.55	0.92
lnc-ARHGEF2-3:4	SEQ2605	0.01587	0.60	0.96	KIAA1614-AS1:1	SEQ2839	0.03175	1.56	0.92
lnc-WASHC4-4:1	SEQ2608	0.01587	0.60	0.96	lnc-PLD3-3:1	SEQ2840	0.03175	1.56	0.92
lnc-ZNF639-4:1	SEQ2617	0.01587	0.60	0.96	lnc-TARBP2-2:1	SEQ2845	0.03175	1.57	0.92
lnc-MFSD4A-1:1	SEQ2625	0.01587	0.61	0.96	LINC01410:8	SEQ2846	0.03175	1.57	0.92
OIP5-AS1:1	SEQ2635	0.01587	0.62	0.96	lnc-CYP4F22-5:1	SEQ2850	0.03175	1.58	0.92
lnc-ZNF613-6:1	SEQ2637	0.01587	0.62	0.96	PPP3CB-AS1:22	SEQ2852	0.03175	1.58	0.92
lnc-SNX20-5:3	SEQ2643	0.01587	0.62	0.96	lnc-PPARA-3:8	SEQ2854	0.03175	1.58	0.92
lnc-KDM3A-1:3	SEQ2648	0.01587	0.63	0.96	lnc-MTG1-2:1	SEQ2858	0.03175	1.59	0.92
lnc-NOL6-6:2	SEQ2649	0.01587	0.63	0.96	DLEU2:26	SEQ0862	0.03175	1.60	0.92
lnc-FGL2-4:1	SEQ2651	0.01587	0.63	0.96	lnc-ABCE1-5:1	SEQ2862	0.03175	1.60	0.92
lnc-EIF1AD-1:1	SEQ2653	0.01587	0.63	0.96	IRAIN:2	SEQ2863	0.03175	1.60	0.92
lnc-TEX37-1:2	SEQ2654	0.01587	0.63	0.96	IRAIN:3	SEQ2864	0.03175	1.60	0.92

lnc-TEX37-1:1	SEQ2655	0.01587	0.63	0.96	lnc-ZNF778-1:4	SEQ2865	0.03175	1.60	0.92
lnc-POM121-2:5	SEQ2658	0.01587	0.63	0.96	MAGI2-AS3:85	SEQ2867	0.03175	1.61	0.92
lnc-SLC16A11-7:7	SEQ2659	0.01587	0.63	0.96	TPT1-AS1:54	SEQ2870	0.03175	1.61	0.92
lnc-PIGU-3:1	SEQ2663	0.01587	0.64	0.96	LINC02482:2	SEQ2871	0.03175	1.61	0.92
lnc-AGAP4-2:1	SEQ2665	0.01587	0.64	0.96	lnc-PPP6R2-2:2	SEQ2876	0.03175	1.62	0.92
lnc-URGCP-MRPS24-2:1	SEQ2667	0.01587	0.64	0.96	lnc-CLEC18B-5:1	SEQ2878	0.03175	1.63	0.92
lnc-EFEMP1-3:12	SEQ2669	0.01587	0.64	0.96	lnc-MYOZ1-1:2	SEQ2879	0.03175	1.63	0.92
lnc-SHISA5-1:2	SEQ2672	0.01587	0.64	0.96	LINC00599:13	SEQ2880	0.03175	1.63	0.92
lnc-GLOD4-3:1	SEQ2673	0.01587	0.64	0.96	LIMD1-AS1:2	SEQ2885	0.03175	1.64	0.92
lnc-STX10-3:1	SEQ2677	0.01587	0.64	0.96	lnc-TELO2-3:2	SEQ2887	0.03175	1.65	0.92
lnc-MAOA-5:1	SEQ2678	0.01587	0.64	0.96	lnc-DLK1-18:77	SEQ2888	0.03175	1.65	0.92
lnc-MB-5:1	SEQ2679	0.01587	0.64	0.96	lnc-MACC1-3:6	SEQ2890	0.03175	1.66	0.92
lnc-IL31RA-1:1	SEQ2680	0.01587	0.64	0.96	SVIL-AS1:39	SEQ2891	0.03175	1.66	0.92
lnc-FNTB-2:1	SEQ2682	0.01587	0.65	0.96	lnc-CELF4-10:1	SEQ2892	0.03175	1.67	0.92
lnc-FANCL-4:1	SEQ2690	0.01587	0.65	0.96	lnc-MED15-1:2	SEQ0620	0.03175	1.68	0.92
lnc-CES5A-1:2	SEQ2691	0.01587	0.65	0.96	lnc-LIPG-11:1	SEQ2894	0.03175	1.68	0.92
lnc-NOP53-2:1	SEQ2692	0.01587	0.65	0.96	lnc-TOB2-3:1	SEQ2902	0.03175	1.69	0.92
lnc-CPM-3:1	SEQ0228	0.01587	0.66	0.96	lnc-PLA2G1B-2:3	SEQ2905	0.03175	1.70	0.92
lnc-PTBP3-7:1	SEQ2703	0.01587	0.67	0.96	lnc-SLC37A2-2:1	SEQ2906	0.03175	1.71	0.92
lnc-FAM228B-2:1	SEQ2714	0.01587	0.68	0.96	lnc-RNF208-3:1	SEQ2911	0.03175	1.72	0.92
lnc-ABCC6-11:1	SEQ2717	0.01587	0.68	0.96	lnc-ANKRD36B-3:9	SEQ2913	0.03175	1.72	0.92
lnc-VLDLR-4:1	SEQ2719	0.01587	0.68	0.96	lnc-CD40LG-2:12	SEQ2919	0.03175	1.74	0.92
lnc-CYTIP-2:1	SEQ0200	0.01587	0.68	0.96	lnc-EVI5L-3:1	SEQ2920	0.03175	1.74	0.92
lnc-EPM2AIP1-9:2	SEQ2721	0.01587	0.68	0.96	lnc-ZNF587-1:1	SEQ2921	0.03175	1.74	0.92
lnc-LYN-8:1	SEQ0619	0.01587	0.69	0.96	lnc-SERPINE3-2:1	SEQ2922	0.03175	1.74	0.92
lnc-PSMC3IP-5:1	SEQ2730	0.01587	0.70	0.96	lnc-SHC3-5:1	SEQ2924	0.03175	1.75	0.92
lnc-P4HTM-2:1	SEQ2732	0.01587	0.70	0.96	lnc-RABEP2-6:1	SEQ2929	0.03175	1.77	0.92
lnc-GDPD4-1:3	SEQ2733	0.01587	0.70	0.96	lnc-NUDT4P1-1:12	SEQ2932	0.03175	1.78	0.92
lnc-KIFC2-1:8	SEQ2737	0.01587	0.70	0.96	lnc-CRYM-3:1	SEQ2933	0.03175	1.78	0.92
lnc-GAMT-6:2	SEQ2742	0.01587	0.72	0.96	GEMIN7-AS1:2	SEQ2934	0.03175	1.78	0.92
lnc-PRPF4B-5:1	SEQ2747	0.01587	0.73	0.96	lnc-FGFR1OP-11:1	SEQ2935	0.03175	1.78	0.92
lnc-CXorf65-2:1	SEQ2748	0.01587	0.74	0.96	lnc-NTAN1-5:1	SEQ2936	0.03175	1.78	0.92
lnc-AGO1-1:1	SEQ2752	0.01587	0.75	0.96	lnc-GOLGA8F-7:1	SEQ2938	0.03175	1.78	0.92
lnc-PMM1-1:1	SEQ2761	0.01587	0.77	0.96	lnc-LTC4S-1:1	SEQ2941	0.03175	1.79	0.92
lnc-GPAT4-2:2	SEQ2763	0.01587	0.78	0.96	lnc-RIPOR1-1:6	SEQ2943	0.03175	1.79	0.92
BACE1-AS:5	SEQ2765	0.01587	0.79	0.96	lnc-TIGD5-1:1	SEQ2945	0.03175	1.80	0.92
lnc-MFSD14B-18:1	SEQ2773	0.01587	1.30	0.96	lnc-NAIP-4:1	SEQ2946	0.03175	1.80	0.92
lnc-RARRES2-2:2	SEQ2774	0.01587	1.31	0.96	lnc-OR4F29-8:25	SEQ2949	0.03175	1.81	0.92
lnc-DNAH10-2:1	SEQ2777	0.01587	1.33	0.96	lnc-BDH1-5:8	SEQ2950	0.03175	1.81	0.92
lnc-OR4F15-4:5	SEQ2780	0.01587	1.35	0.96	lnc-SKI-5:1	SEQ2951	0.03175	1.81	0.92
lnc-IL17RA-33:6	SEQ2788	0.01587	1.39	0.96	MIR9-3HG:11	SEQ2957	0.03175	1.82	0.92
lnc-SEPT7-4:1	SEQ2796	0.01587	1.42	0.96	lnc-C1orf198-6:3	SEQ2959	0.03175	1.84	0.92
lnc-CCL27-2:1	SEQ2801	0.01587	1.45	0.96	CCDC183-AS1:3	SEQ2960	0.03175	1.85	0.92

lnc-ZNF417-1:2	SEQ2808	0.01587	1.48	0.96	lnc-OAZ3-2:12	SEQ2965	0.03175	1.86	0.92
lnc-PPP6R2-5:1	SEQ2811	0.01587	1.49	0.96	LHX4-AS1:3	SEQ2966	0.03175	1.86	0.92
lnc-PNOC-2:1	SEQ2817	0.01587	1.51	0.96	lnc-EPHA6-1:2	SEQ2967	0.03175	1.87	0.92
lnc-SPATA21-4:8	SEQ2818	0.01587	1.51	0.96	UGDH-AS1:8	SEQ2968	0.03175	1.87	0.92
lnc-EFCAB12-2:17	SEQ2819	0.01587	1.51	0.96	lnc-GRINA-2:1	SEQ2969	0.03175	1.87	0.92
lnc-TCP11-2:6	SEQ2820	0.01587	1.51	0.96	lnc-SAMD11-12:3	SEQ2970	0.03175	1.87	0.92
lnc-PDGFB-2:1	SEQ2826	0.01587	1.52	0.96	lnc-PLA2G6-1:2	SEQ2971	0.03175	1.88	0.92
lnc-YRDC-3:1	SEQ2841	0.01587	1.56	0.96	SVIL-AS1:17	SEQ2972	0.03175	1.88	0.92
lnc-RIOX2-3:4	SEQ2842	0.01587	1.56	0.96	SVIL-AS1:35	SEQ2973	0.03175	1.88	0.92
lnc-KMT2C-3:1	SEQ2847	0.01587	1.58	0.96	LINC01372:8	SEQ2975	0.03175	1.89	0.92
lnc-SULT1A4-4:1	SEQ2851	0.01587	1.58	0.96	lnc-IGIP-5:1	SEQ2977	0.03175	1.90	0.92
lnc-TSPAN33-1:1	SEQ2853	0.01587	1.58	0.96	lnc-ELK4-1:4	SEQ2978	0.03175	1.90	0.92
lnc-HMGCS2-1:2	SEQ2855	0.01587	1.59	0.96	MAGI2-AS3:51	SEQ2983	0.03175	1.92	0.92
lnc-NTN3-1:2	SEQ2860	0.01587	1.59	0.96	lnc-ZNF467-4:1	SEQ2985	0.03175	1.92	0.92
lnc-LAT-2:1	SEQ2861	0.01587	1.60	0.96	lnc-PABPN1L-1:1	SEQ2986	0.03175	1.93	0.92
lnc-HIST3H2BB-1:8	SEQ2866	0.01587	1.60	0.96	lnc-IGSF9B-2:1	SEQ2987	0.03175	1.93	0.92
lnc-CPLX1-2:8	SEQ2869	0.01587	1.61	0.96	lnc-MC5R-11:1	SEQ2989	0.03175	1.93	0.92
lnc-CXorf40B-3:1	SEQ2872	0.01587	1.62	0.96	lnc-CLRN2-1:2	SEQ2991	0.03175	1.94	0.92
lnc-FXYD2-2:1	SEQ2873	0.01587	1.62	0.96	lnc-COPZ2-1:8	SEQ2992	0.03175	1.94	0.92
lnc-FAAP20-2:1	SEQ2889	0.01587	1.66	0.96	lnc-DHRS7B-1:7	SEQ2993	0.03175	1.94	0.92
lnc-ANKRD34B-4:1	SEQ2896	0.01587	1.69	0.96	lnc-FAM184B-4:1	SEQ2994	0.03175	1.94	0.92
lnc-CA7-4:3	SEQ2897	0.01587	1.69	0.96	lnc-ISOC2-3:1	SEQ2996	0.03175	1.95	0.92
NTM-AS1:3	SEQ2898	0.01587	1.69	0.96	lnc-CSPG4-1:12	SEQ2998	0.03175	1.95	0.92
NTM-AS1:4	SEQ2899	0.01587	1.69	0.96	lnc-PPM1H-6:1	SEQ3011	0.03175	2.01	0.92
lnc-TCP10L-2:1	SEQ2900	0.01587	1.69	0.96	lnc-TTYH3-2:1	SEQ3012	0.03175	2.01	0.92
lnc-NAA38-4:1	SEQ2903	0.01587	1.70	0.96	lnc-TMC5-3:1	SEQ3015	0.03175	2.01	0.92
lnc-FAAP20-3:1	SEQ2907	0.01587	1.71	0.96	lnc-TMEM211-7:1	SEQ3023	0.03175	2.04	0.92
lnc-PGAM2-1:1	SEQ2909	0.01587	1.71	0.96	lnc-NBPF1-1:6	SEQ3026	0.03175	2.05	0.92
lnc-FBXO11-1:10	SEQ2912	0.01587	1.72	0.96	lnc-ATG4B-2:1	SEQ3030	0.03175	2.06	0.92
lnc-NEUROD1-2:3	SEQ2918	0.01587	1.74	0.96	lnc-PRKN-17:1	SEQ3031	0.03175	2.06	0.92
lnc-KLHL18-6:1	SEQ2923	0.01587	1.75	0.96	lnc-ATAD5-2:1	SEQ3035	0.03175	2.07	0.92
CCDC183-AS1:5	SEQ2925	0.01587	1.76	0.96	CNTFR-AS1:14	SEQ3038	0.03175	2.08	0.92
lnc-CNTN2-4:1	SEQ2926	0.01587	1.76	0.96	lnc-TRUB2-8:1	SEQ3040	0.03175	2.08	0.92
lnc-TAX1BP3-1:2	SEQ2927	0.01587	1.76	0.96	ASB16-AS1:9	SEQ3041	0.03175	2.08	0.92
lnc-UNC5B-1:1	SEQ2930	0.01587	1.77	0.96	lnc-RNF24-2:8	SEQ3043	0.03175	2.10	0.92
LMCD1-AS1:11	SEQ2931	0.01587	1.77	0.96	lnc-DNAJB6-10:3	SEQ3044	0.03175	2.10	0.92
lnc-ATAD5-5:1	SEQ2937	0.01587	1.78	0.96	lnc-DNAJB6-10:2	SEQ3045	0.03175	2.10	0.92
lnc-CASP9-5:1	SEQ2940	0.01587	1.79	0.96	lnc-DNAAF5-1:6	SEQ3048	0.03175	2.11	0.92
lnc-PEX6-1:1	SEQ2942	0.01587	1.79	0.96	lnc-SCIMP-1:1	SEQ3051	0.03175	2.13	0.92
lnc-SMAD7-2:3	SEQ2947	0.01587	1.80	0.96	lnc-PFDN4-11:4	SEQ3054	0.03175	2.13	0.92
lnc-RHNO1-1:1	SEQ0026	0.01587	1.81	0.96	PPP3CB-AS1:5	SEQ3057	0.03175	2.14	0.92
lnc-GTF2H2C-3:1	SEQ2952	0.01587	1.82	0.96	lnc-MSLNL-3:1	SEQ3059	0.03175	2.15	0.92
lnc-PPEF1-7:2	SEQ2953	0.01587	1.82	0.96	lnc-HAS1-2:1	SEQ3061	0.03175	2.15	0.92

lnc-SDCCAG8-5:1	SEQ2954	0.01587	1.82	0.96	lnc-CPLX1-11:1	SEQ3064	0.03175	2.16	0.92
lnc-BDH1-5:11	SEQ2956	0.01587	1.82	0.96	lnc-PPDPF-2:1	SEQ3067	0.03175	2.18	0.92
lnc-CRYM-3:2	SEQ2962	0.01587	1.85	0.96	lnc-GLRX5-2:2	SEQ3070	0.03175	2.20	0.92
lnc-CRABP2-3:1	SEQ2963	0.01587	1.86	0.96	TNRC6C-AS1:1	SEQ3072	0.03175	2.20	0.92
lnc-PRKN-10:1	SEQ2964	0.01587	1.86	0.96	ITPK1-AS1:2	SEQ3073	0.03175	2.20	0.92
lnc-PACRG-2:1	SEQ2974	0.01587	1.88	0.96	ITPK1-AS1:1	SEQ3074	0.03175	2.20	0.92
PCBP1-AS1:201	SEQ2976	0.01587	1.90	0.96	lnc-SLC7A14-3:12	SEQ3079	0.03175	2.22	0.92
lnc-NPTX1-4:1	SEQ2980	0.01587	1.91	0.96	MALAT1:26	SEQ3081	0.03175	2.23	0.92
lnc-CHN2-2:4	SEQ2981	0.01587	1.92	0.96	lnc-GPC2-2:6	SEQ3088	0.03175	2.25	0.92
lnc-ZNF705D-6:1	SEQ2982	0.01587	1.92	0.96	lnc-GSG1L-1:9	SEQ3090	0.03175	2.26	0.92
lnc-PCIF1-1:1	SEQ2984	0.01587	1.92	0.96	lnc-COX19-2:1	SEQ3091	0.03175	2.26	0.92
lnc-OSGIN1-1:9	SEQ2988	0.01587	1.93	0.96	lnc-LGR6-8:1	SEQ3092	0.03175	2.27	0.92
lnc-PEX10-6:1	SEQ2995	0.01587	1.95	0.96	lnc-LRIG2-5:1	SEQ3093	0.03175	2.27	0.92
lnc-OTOA-3:4	SEQ2999	0.01587	1.96	0.96	lnc-IL3RA-1:22	SEQ3101	0.03175	2.29	0.92
ADNP-AS1:7	SEQ3000	0.01587	1.96	0.96	lnc-POM121L2-2:5	SEQ3110	0.03175	2.32	0.92
lnc-LRRK1-3:4	SEQ0242	0.01587	1.97	0.96	lnc-NMRK2-5:9	SEQ3111	0.03175	2.32	0.92
lnc-TMEM211-2:8	SEQ0644	0.01587	1.99	0.96	lnc-COA6-1:2	SEQ3113	0.03175	2.32	0.92
lnc-LRRC56-1:7	SEQ3005	0.01587	2.00	0.96	lnc-ATAD2B-2:1	SEQ3116	0.03175	2.34	0.92
lnc-OR4F29-8:23	SEQ3007	0.01587	2.00	0.96	lnc-SSH3-5:2	SEQ3117	0.03175	2.35	0.92
lnc-PILRB-1:5	SEQ3009	0.01587	2.00	0.96	ZMIZ1-AS1:22	SEQ3122	0.03175	2.38	0.92
lnc-CEP83-7:1	SEQ3010	0.01587	2.01	0.96	lnc-GLRX5-7:2	SEQ3123	0.03175	2.38	0.92
lnc-ALG12-5:3	SEQ3016	0.01587	2.01	0.96	lnc-FAM184B-6:1	SEQ3128	0.03175	2.42	0.92
lnc-GTPBP1-1:2	SEQ3017	0.01587	2.02	0.96	lnc-PRR26-2:1	SEQ3129	0.03175	2.42	0.92
lnc-PPIF-1:3	SEQ3019	0.01587	2.02	0.96	MALAT1:14	SEQ3130	0.03175	2.43	0.92
lnc-TOP1MT-5:1	SEQ3021	0.01587	2.04	0.96	lnc-SPANXB1-7:1	SEQ3131	0.03175	2.44	0.92
lnc-RPL12-1:3	SEQ3024	0.01587	2.04	0.96	lnc-CEL-5:2	SEQ3132	0.03175	2.44	0.92
lnc-NKPD1-1:1	SEQ3025	0.01587	2.04	0.96	lnc-CANT1-3:1	SEQ3133	0.03175	2.44	0.92
lnc-NEURL4-1:4	SEQ3028	0.01587	2.05	0.96	OLMALINC:4	SEQ3137	0.03175	2.45	0.92
DLG5-AS1:5	SEQ3033	0.01587	2.06	0.96	lnc-CRLF3-3:1	SEQ3139	0.03175	2.46	0.92
lnc-GRINA-3:1	SEQ3047	0.01587	2.10	0.96	LINC01759:10	SEQ3141	0.03175	2.48	0.92
lnc-PLPP2-2:1	SEQ3049	0.01587	2.11	0.96	lnc-RGS9-16:1	SEQ3149	0.03175	2.52	0.92
lnc-TMEM163-2:1	SEQ3055	0.01587	2.14	0.96	lnc-KCNQ2-2:2	SEQ3151	0.03175	2.52	0.92
lnc-LGALS7B-1:4	SEQ3056	0.01587	2.14	0.96	lnc-FAM104A-8:2	SEQ3153	0.03175	2.56	0.92
lnc-CNP-1:1	SEQ3058	0.01587	2.14	0.96	lnc-EMX1-1:1	SEQ3154	0.03175	2.56	0.92
lnc-HGH1-1:1	SEQ3060	0.01587	2.15	0.96	lnc-SPANXB1-7:5	SEQ3157	0.03175	2.57	0.92
lnc-ERV3-1-10:8	SEQ3062	0.01587	2.16	0.96	lnc-MINDY1-2:1	SEQ3163	0.03175	2.66	0.92
ZMIZ1-AS1:31	SEQ3065	0.01587	2.17	0.96	lnc-PLEKHA2-4:1	SEQ3164	0.03175	2.67	0.92
lnc-SPANXB1-7:7	SEQ3066	0.01587	2.17	0.96	lnc-CDCA2-4:1	SEQ3166	0.03175	2.68	0.92
lnc-ERLEC1-6:1	SEQ3068	0.01587	2.18	0.96	SNHG12:10	SEQ3169	0.03175	2.71	0.92
lnc-NAV1-8:1	SEQ3069	0.01587	2.20	0.96	lnc-TXNDC15-1:1	SEQ3177	0.03175	2.79	0.92
lnc-SELENON-2:2	SEQ3071	0.01587	2.20	0.96	lnc-LRRC56-1:11	SEQ3181	0.03175	2.87	0.92
lnc-MYO15B-3:1	SEQ3076	0.01587	2.21	0.96	lnc-DRICH1-3:35	SEQ3187	0.03175	2.97	0.92
lnc-ARFRP1-1:1	SEQ3077	0.01587	2.21	0.96	lnc-SNX20-8:1	SEQ3192	0.03175	2.98	0.92

lnc-RFPL3S-4:1	SEQ3082	0.01587	2.23	0.96	lnc-SLC7A7-1:6	SEQ3194	0.03175	3.04	0.92
lnc-NPC1-1:1	SEQ3087	0.01587	2.24	0.96	lnc-ST18-4:4	SEQ3201	0.03175	3.09	0.92
LINC01608:19	SEQ3097	0.01587	2.29	0.96	lnc-CANT1-2:5	SEQ3203	0.03175	3.11	0.92
lnc-DRICH1-3:51	SEQ3098	0.01587	2.29	0.96	lnc-TRUB2-8:2	SEQ3205	0.03175	3.13	0.92
lnc-KIF13B-2:1	SEQ3100	0.01587	2.29	0.96	lnc-SLC29A4-5:9	SEQ3207	0.03175	3.15	0.92
lnc-TCF19-1:54	SEQ3105	0.01587	2.31	0.96	lnc-DCP1B-6:1	SEQ3210	0.03175	3.17	0.92
lnc-CCL25-1:5	SEQ3109	0.01587	2.32	0.96	lnc-SFTPA2-6:1	SEQ3211	0.03175	3.18	0.92
lnc-GOLGA8O-3:6	SEQ3115	0.01587	2.32	0.96	lnc-FAM187A-2:1	SEQ3217	0.03175	3.28	0.92
lnc-GRINA-1:1	SEQ3118	0.01587	2.36	0.96	DANT2:3	SEQ3220	0.03175	3.36	0.92
lnc-ANKRD20A3-19:1	SEQ3119	0.01587	2.36	0.96	lnc-BLM-6:5	SEQ3223	0.03175	3.39	0.92
lnc-CLRN2-1:1	SEQ3124	0.01587	2.40	0.96	lnc-OR4F3-5:9	SEQ3225	0.03175	3.42	0.92
NORAD:2	SEQ3125	0.01587	2.41	0.96	LINC00639:9	SEQ3235	0.03175	3.85	0.92
TNRC6C-AS1:5	SEQ3142	0.01587	2.48	0.96	lnc-SSTR2-5:1	SEQ3238	0.03175	4.08	0.92
TNRC6C-AS1:2	SEQ3143	0.01587	2.48	0.96	LINC01608:17	SEQ3243	0.03175	4.20	0.92
lnc-NBPF3-3:6	SEQ3144	0.01587	2.49	0.96	lnc-CD46-7:4	SEQ3254	0.03175	5.19	0.92
GSN-AS1:1	SEQ3146	0.01587	2.50	0.96	LINC01715:4	SEQ3256	0.03175	5.35	0.92
MIR646HG:31	SEQ3148	0.01587	2.51	0.96	TDRG1:6	SEQ3270	0.03175	8.23	0.92
lnc-IL3RA-1:18	SEQ3155	0.01587	2.57	0.96	MALAT1:11	SEQ3276	0.03175	25.39	0.92
lnc-SULT1A3-5:1	SEQ3161	0.01587	2.59	0.96	LINC00092:11	SEQ3278	0.03175	41.83	0.92

386 lncRNAs comprising 28 novel lncRNAs showed (i) high expression in postmortem brain (CPM>25), (ii) significant differential expression in AD brain versus HC brain, and (iii) no or low expression (<5 CPM) in plasma and blood (Paxgene) of living AD patients or healthy controls. These 386 lncRNAs are listed and their profile included in Tables 7 and 8.

To identify for diagnostic and therapeutic applications, circulating lncRNAs in the peripheral body fluids, blood and plasma lncRNA signatures involved specifically in the pathogenesis of brain disorders, including but not limited to cognitive disorders such as mild cognitive impairment (MCI), Alzheimer (AD), frontotemporal (FTD) dementia and/or dementia with Lewy bodies (DLB), a total of 128,893 lncRNAs comprising the 1091 novel lncRNAs and the 127802 lncRNAs based on LNCipedia were screened and profiled in the brain from AD cases and from non-demented cases as well as in plasma and/or whole blood samples from different groups of subjects, including a group of patients with MCI, a group of patients with mild AD, a group of patients with moderate-to-severe AD, a group of patients with DLB and a group of patients with FTD as well as a control reference group of cognitively intact healthy controls having normal neurocognitive scores and with no brain imaging abnormalities, have been screened.

Subsequently, out of 128 894 lncRNAs in all samples, 53747 lncRNAs in brain samples, 35618 lncRNAs in plasma samples, 71132 lncRNAs in whole blood (Paxgene RNA tubes) samples have been detected with the level of at least one count in a sample among the

samples included in the experiments. Further applying an additional threshold of expression level > 5CPM in 50% of samples from at least one of the subject groups studied, the following numbers of lncRNAs were retained for Statistical analysis: 10122 brain lncRNAs, 3774 plasma lncRNAs and 9367 whole blood lncRNAs.

For each lncRNA, the differential expression level was determined by comparing the expression level between two groups (for example AD group and healthy control group), using a two-tailed Welch t test and/or Wilcoxon Mann-Whitney test. Significant differential expression was identified as $p<0.05$. 410 lncRNAs were differentially expressed in AD plasma versus HC plasma, with statistically significance ($p<0.05$, Wilcoxon test) and a fold change FC<0.80 or >1.20. Table 9 shows the 410 plasma lncRNAs.

Table 9: The 410 plasma lncRNAs that are differentially expressed in AD plasma versus HC plasma.

lncRNA	SEQ	p value	FC	AUC	lncRNA	SEQ	p value	FC	AUC
lnc-KLHL36-2:2	SEQ3279	0.0022	2.46	1.00	lnc-PYDC2-5:1	SEQ3459	0.0022	10.28	1.00
LINC01000:5	SEQ3280	0.0022	0.20	1.00	lnc-PPIAL4D-5:7	SEQ3460	0.0411	0.38	0.86
lnc-ABCC5-3:1	SEQ3281	0.0022	2.44	1.00	lnc-REL-6:3	SEQ3461	0.0043	13.49	0.97
lnc-ABCC5-3:4	SEQ3282	0.0022	3.49	1.00	lnc-ZNF460-2:1	SEQ0473	0.0450	6.14	0.86
lnc-ANAPC11-2:8	SEQ3283	0.0022	2.51	1.00	lnc-TOP1-9:1	SEQ3462	0.0260	4.56	0.89
lnc-CLLU1-2:6	SEQ3284	0.0022	3.65	1.00	TCONS_00050494	SEQ1818	0.0087	3.27	0.94
lnc-CREB3L1-1:6	SEQ3285	0.0022	0.30	1.00	lnc-TAF9-10:1	SEQ0639	0.0411	3.12	0.86
lnc-FGL2-3:1	SEQ3286	0.0022	3.99	1.00	lnc-UROC1-1:1	SEQ3463	0.0115	12.52	0.94
lnc-HERC3-1:7	SEQ3287	0.0022	2.87	1.00	lnc-PMM2-6:4	SEQ2411	0.0260	3.55	0.89
lnc-IL9R-1:5	SEQ3288	0.0022	0.00	1.00	lnc-SPATA32-2:4	SEQ3464	0.0411	4.81	0.86
lnc-LCOR-4:3	SEQ3289	0.0022	4.31	1.00	lnc-ZNF843-2:4	SEQ3465	0.0303	347	0.89
lnc-LRRC10-1:1	SEQ3290	0.0022	3.26	1.00	lnc-RIPOR2-7:1	SEQ3466	0.0411	3.56	0.86
lnc-MAGEE2-2:1	SEQ3291	0.0050	5.09	1.00	lnc-NUTM1-6:4	SEQ3467	0.0043	6.40	0.97
lnc-NEK6-2:1	SEQ2787	0.0022	5.82	1.00	lnc-PFDN6-2:3	SEQ3468	0.0411	3.59	0.86
lnc-NEK6-2:4	SEQ2786	0.0022	4.65	1.00	lnc-SSH3-5:1	SEQ2791	0.0152	2.07	0.92
CCDC183-AS1:5	SEQ2925	0.0260	4.07	0.89	lnc-USP47-2:1	SEQ3469	0.0022	3.87	1.00
CRTC3-AS1:3	SEQ3292	0.0022	3.33	1.00	lnc-STX10-2:1	SEQ3470	0.0022	6.21	1.00
FGD5-AS1:14	SEQ3293	0.0152	2.71	0.92	lnc-SMN2-4:2	SEQ3471	0.0022	19.3	1.00
LINC02288:8	SEQ3294	0.0087	5.60	0.94	lnc-TCF7-1:3	SEQ0990	0.0022	3.05	1.00
lnc-ABTB2-3:1	SEQ3295	0.0129	4.23	0.94	lnc-SBK1-1:1	SEQ3472	0.0050	6.05	1.00
lnc-ARAF-4:1	SEQ3296	0.0260	2.34	0.89	lnc-RBM12B-10:1	SEQ3473	0.0087	0.42	0.94
lnc-ATP6V1C2-2:2	SEQ2695	0.0260	4.33	0.89	lnc-RNF39-9:1	SEQ3474	0.0087	1.54	0.94

lnc-ATXN2-1:1	SEQ0099	0.0087	1.62	0.94	lnc-ZC3H12B-1:5	SEQ3475	0.0043	0.51	0.97
lnc-BORA-25:1	SEQ3297	0.0260	3.39	0.89	lnc-RMDN2-3:24	SEQ2468	0.0022	2.35	1.00
lnc-DEFB115-5:1	SEQ3298	0.0081	174.03	0.97	lnc-ZNF552-3:1	SEQ3476	0.0022	2.28	1.00
lnc-DTX1-1:1	SEQ3299	0.0450	3.40	0.86	lnc-SPRYD3-1:17	SEQ3477	0.0043	2.84	0.97
lnc-EXOSC6-1:2	SEQ3300	0.0411	3.95	0.86	lnc-ROM1-7:1	SEQ3478	0.0022	2.57	1.00
lnc-FAM174A-6:2	SEQ2631	0.0411	2.87	0.86	lnc-OSBPL7-1:1	SEQ3479	0.0050	4.81	1.00
lnc-GCN1-3:1	SEQ3301	0.0450	3.14	0.86	lnc-ZNF559-ZNF177-1:1	SEQ3480	0.0043	11.85	1.00
lnc-GIMAP5-1:1	SEQ3302	0.0152	6.09	0.92	lnc-SLC45A3-3:1	SEQ3481	0.0022	3.96	1.00
lnc-IL18BP-1:1	SEQ3303	0.0411	2.29	0.86	lnc-PMM2-2:1	SEQ3482	0.0028	Inf	1.00
lnc-MIS12-3:1	SEQ3304	0.0260	1.66	0.89	SNHG12:13	SEQ3483	0.0022	26.17	1.00
lnc-NLRC4-3:3	SEQ3305	0.0087	3.16	0.94	TSPOAP1-AS1:39	SEQ3484	0.0022	169	1.00
lnc-NPIPB13-3:1	SEQ3306	0.0152	3.15	0.92	TCONS_00019798	SEQ1305	0.0022	4.07	1.00
CA3-AS1:13	SEQ3307	0.0087	0.25	0.94	lnc-PAPLN-1:1	SEQ3485	0.0411	2.41	0.86
CSTF3-AS1:10	SEQ3308	0.0152	2.30	0.92	lnc-SYCP1-7:1	SEQ3486	0.0260	1.50	0.89
EP300-AS1:13	SEQ2778	0.0043	0.45	0.97	lnc-RABL2B-3:1	SEQ3487	0.0411	6.26	0.86
FAM239A:16	SEQ3309	0.0260	2.85	0.89	lnc-SIAH1-1:1	SEQ3488	0.0152	1.80	0.92
FGD5-AS1:29	SEQ3310	0.0260	3.67	0.89	lnc-RAB17-2:1	SEQ3489	0.0087	2.41	0.94
FGD5-AS1:8	SEQ3311	0.0411	0.10	0.86	lnc-ZCCHC7-2:12	SEQ3490	0.0260	7.75	0.89
GAS5:31	SEQ3312	0.0411	4.65	0.86	lnc-NRGN-1:6	SEQ3491	0.0411	0.41	0.86
H1FX-AS1:15	SEQ3313	0.0260	3.93	0.89	lnc-TEKT1-2:1	SEQ3492	0.0087	2.51	0.94
HCG11:10	SEQ3314	0.0043	30.61	0.97	TCONS_00066544	SEQ2098	0.0303	6.13	0.89
HCG11:2	SEQ3315	0.0043	30.61	0.97	lnc-REL-1:3	SEQ2508	0.0260	2.57	0.89
HCG11:9	SEQ3316	0.0043	30.61	0.97	lnc-SATB1-8:1	SEQ3493	0.0043	4.01	0.97
IL10RB-AS1:3	SEQ3317	0.0022	4.E+11	1.00	lnc-RNMT-8:1	SEQ3494	0.0284	0.00	0.83
IQCH-AS1:17	SEQ3318	0.0129	6.46	0.94	lnc-YPEL5-5:1	SEQ0750	0.0152	2.94	0.92
JHDM1D-AS1:2	SEQ3319	0.0260	0.07	0.89	THRIL:1	SEQ3495	0.0115	30.93	0.94
LINC00869:69	SEQ3320	0.0411	0.23	0.86	TCONS_00050563	SEQ1836	0.0411	2.84	0.86
LINC00909:10	SEQ3321	0.0411	4.91	0.86	lnc-SYNJ2-1:1	SEQ3496	0.0152	2.94	0.92
LINC00926:6	SEQ3322	0.0260	27.17	0.89	lnc-STAT1-2:4	SEQ3497	0.0087	2.75	0.94
LINC01000:15	SEQ3323	0.0411	2.95	0.86	TCONS_00023171	SEQ1367	0.0284	Inf	0.83
LINC01419:1	SEQ3324	0.0411	7.61	0.86	PSMA3-AS1:27	SEQ3498	0.0152	0.41	0.92
LINC01473:6	SEQ3325	0.0078	0.07	0.97	TCONS_00045364	SEQ1785	0.0152	3.23	0.92
LINC01952:8	SEQ3326	0.0411	1.90	0.86	LRRC75A-AS1:3	SEQ3499	0.0260	4.37	0.89
LINC02062:2	SEQ3327	0.0152	179.88	0.92	lnc-TEAD2-2:4	SEQ3500	0.0260	3.19	0.89
LINC02397:10	SEQ3328	0.0152	8.19	0.92	lnc-YY1AP1-2:1	SEQ3501	0.0303	3.93	0.89
LIX1-AS1:2	SEQ3329	0.0152	13.41	0.92	lnc-STPG1-3:4	SEQ3502	0.0087	4.72	0.94
lnc-ACOT9-2:1	SEQ3330	0.0087	2.32	0.94	lnc-SH3D19-2:1	SEQ3503	0.0260	2.86	0.89
lnc-ADAM30-1:1	SEQ2698	0.0295	6.92	0.89	lnc-TRDMT1-5:3	SEQ3504	0.0087	2.45	0.94

lnc-AGO1-1:1	SEQ2752	0.0129	5.66	0.94	NNT-AS1:11	SEQ3505	0.0411	0.18	0.86
lnc-AGO3-3:1	SEQ3331	0.0411	3.66	0.86	lnc-OST4-6:2	SEQ0954	0.0260	6.67	0.89
lnc-AHSA2-5:6	SEQ3332	0.0438	6.26	0.86	lnc-SMG1-3:1	SEQ3506	0.0200	3.60	0.92
lnc-AIM2-3:3	SEQ3333	0.0411	2.53	0.86	lnc-ZNF613-2:1	SEQ3507	0.0438	2.87	0.86
lnc-AKAP12-2:1	SEQ2375	0.0260	2.25	0.89	lnc-ZNF891-1:1	SEQ3508	0.0260	5.52	0.89
lnc-AMPH-10:8	SEQ3334	0.0115	7.51	0.94	lnc-PTPA-3:4	SEQ3509	0.0152	6.31	0.92
lnc-ANAPC11-2:2	SEQ3335	0.0411	3.91	0.86	lnc-RAB37-1:4	SEQ3510	0.0152	2.19	0.92
lnc-ANGPTL1-2:1	SEQ3336	0.0411	2.22	0.86	lnc-TMEM212-1:4	SEQ3511	0.0152	0.09	0.92
lnc-ANKRD13A-4:1	SEQ3337	0.0048	8.02	1.00	lnc-RPL39L-3:1	SEQ3512	0.0303	4.08	0.89
lnc-ANKRD20A2-22:3	SEQ3338	0.0411	3.36	0.86	lnc-SLC25A47-5:1	SEQ3513	0.0043	2.75	0.97
lnc-ANO8-1:2	SEQ3339	0.0250	22.08	0.89	lnc-PLEKHA3-20:1	SEQ3514	0.0260	2.39	0.89
lnc-APBA2-5:4	SEQ3340	0.0129	6.87	0.94	lnc-TMEM30B-9:2	SEQ3515	0.0411	4.59	0.86
lnc-APTX-3:1	SEQ2399	0.0411	1.92	0.86	THAP9-AS1:28	SEQ3516	0.0043	5.97	0.97
lnc-ARF6-3:1	SEQ3341	0.0087	2.93	0.94	lnc-PAX8-6:1	SEQ3517	0.0200	7.45	0.92
lnc-ARL14EP-4:1	SEQ3342	0.0043	10.23	1.00	lnc-TAF1B-2:1	SEQ3518	0.0167	162	0.90
lnc-BCL2L13-3:1	SEQ3343	0.0260	2.56	0.89	lnc-ZNF121-1:1	SEQ3519	0.0043	3.91	0.97
lnc-BLACE-2:15	SEQ3344	0.0087	0.27	0.94	TCONS_00011972	SEQ1217	0.0087	2.22	0.94
lnc-BLACE-2:5	SEQ3345	0.0152	0.03	0.92	lnc-TIGD5-3:1	SEQ3520	0.0087	2.50	0.94
lnc-C10orf10-2:22	SEQ3346	0.0260	1.67	0.89	lnc-ROM1-7:5	SEQ3521	0.0411	2.36	0.86
lnc-C10orf10-2:23	SEQ3347	0.0260	1.67	0.89	lnc-RNF123-1:3	SEQ3522	0.0260	4.31	0.89
lnc-C11orf21-3:1	SEQ3348	0.0411	2.71	0.86	UGDH-AS1:10	SEQ0407	0.0411	6.05	0.86
lnc-C12orf73-1:1	SEQ3349	0.0411	2.02	0.86	lnc-RAB3C-1:1	SEQ3523	0.0411	2.75	0.86
lnc-C1orf112-4:2	SEQ3350	0.0200	4.47	0.92	lnc-ZNF506-2:3	SEQ3524	0.0152	5.13	0.92
lnc-C1QBP-1:1	SEQ3351	0.0438	3.96	0.86	WAC-AS1:12	SEQ3525	0.0043	3.99	0.97
lnc-C20orf96-1:1	SEQ2764	0.0152	2.76	0.92	SNHG16:2	SEQ3526	0.0411	7.48	0.86
lnc-C6orf106-2:2	SEQ3352	0.0043	1.79	0.97	TCONS_00037052	SEQ1619	0.0438	6.17	0.86
lnc-C9orf152-5:1	SEQ3353	0.0303	4.54	0.89	lnc-TMTC3-1:1	SEQ3527	0.0411	0.44	0.86
lnc-C9orf57-1:1	SEQ3354	0.0152	6.22	0.92	lnc-TSTD3-1:3	SEQ3528	0.0043	2.63	0.97
lnc-CBARP-2:1	SEQ3355	0.0411	2.34	0.86	ZMYM4-AS1:1	SEQ3529	0.0087	2.47	0.94
lnc-CCT4-1:8	SEQ3356	0.0411	2.60	0.86	lnc-PPP4C-2:7	SEQ3530	0.0087	2.23	0.94
lnc-CDC42BPB-4:1	SEQ3357	0.0411	3.25	0.86	lnc-TM2D2-1:1	SEQ3531	0.0260	2.74	0.89
lnc-CDH20-3:1	SEQ3358	0.0087	3.08	0.94	lnc-PCED1B-5:3	SEQ3532	0.0260	0.11	0.89

lnc-CDIPT-1:11	SEQ3359	0.0152	2.30	0.92	lnc-ZGRF1-8:1	SEQ3533	0.0260	2.15	0.89
lnc-CDK12-2:5	SEQ3360	0.0411	19.25	0.86	lnc-SAG-3:1	SEQ3534	0.0260	6.89	0.89
lnc-CDK2AP1-1:9	SEQ3361	0.0411	2.20	0.86	lnc-ZCCHC7-2:1	SEQ3535	0.0411	2.28	0.86
lnc-CEACAM21-5:6	SEQ3362	0.0087	5.09	0.94	lnc-TMX2-1:1	SEQ3536	0.0078	9.44	0.97
lnc-CECR2-1:4	SEQ3363	0.0152	74.37	0.92	lnc-SULT1A4-1:30	SEQ3537	0.0411	3.45	0.86
lnc-CELA3A-5:11	SEQ3364	0.0303	2.E+09	0.89	lnc-TET3-2:2	SEQ3538	0.0124	5.24	0.94
lnc-CEMP1-5:1	SEQ3365	0.0200	4.68	0.92	NDUFA6-AS1:42	SEQ3539	0.0260	2.90	0.89
lnc-CISD2-1:3	SEQ3366	0.0152	2.57	0.92	lnc-UBAC1-2:2	SEQ3540	0.0303	14.74	0.89
lnc-CKS1B-3:1	SEQ3367	0.0087	3.27	0.94	lnc-SNX14-5:1	SEQ3541	0.0152	2.14	0.92
lnc-CLDN11-7:1	SEQ3368	0.0260	0.32	0.89	lnc-PPA2-1:1	SEQ3542	0.0087	3.28	0.94
lnc-CLEC2D-8:7	SEQ3369	0.0152	4.52	0.92	lnc-S1PR1-6:1	SEQ3543	0.0260	2.34	0.89
lnc-CNTRL-6:8	SEQ3370	0.0250	5.E+05	0.89	lnc-TARS-6:1	SEQ3544	0.0260	2.32	0.89
lnc-CPM-1:1	SEQ3371	0.0048	21.75	1.00	lnc-USP35-11:2	SEQ2802	0.0411	1.87	0.86
lnc-CTSV-3:1	SEQ3372	0.0411	2.91	0.86	PSMA3-AS1:8	SEQ3545	0.0260	0.20	0.89
lnc-CXCL2-3:1	SEQ3373	0.0411	0.53	0.86	TCONS_00027402	SEQ1445	0.0295	0.07	0.89
lnc-DALRD3-1:4	SEQ3374	0.0260	3.91	0.89	OR2A1-AS1:19	SEQ3546	0.0129	24.12	0.94
lnc-DAO-3:1	SEQ0685	0.0043	1.70	0.97	lnc-POLR3E-3:4	SEQ3547	0.0152	1.71	0.92
lnc-DCAF1-1:1	SEQ3375	0.0087	2.54	0.94	lnc-RMDN2-3:2	SEQ3548	0.0411	3.24	0.86
lnc-DEF8-1:1	SEQ3376	0.0303	5.60	0.89	lnc-SLC25A29-1:2	SEQ3549	0.0081	8.76	0.97
lnc-DNAL4-4:1	SEQ3095	0.0411	4.63	0.86	ZBTB11-AS1:9	SEQ3550	0.0411	54.24	0.86
lnc-DPH5-5:1	SEQ3377	0.0048	17.28	1.00	PEG13:2	SEQ3551	0.0411	3.20	0.86
lnc-DUSP26-14:1	SEQ3378	0.0043	1.99	0.97	lnc-PHF3-12:1	SEQ3552	0.0152	2.20	0.92
lnc-EBF3-6:2	SEQ3379	0.0152	0.33	0.92	lnc-ZNF16-2:11	SEQ3553	0.0152	3.42	0.92
lnc-EFCAB8-1:3	SEQ3380	0.0411	2.73	0.86	RAD51-AS1:7	SEQ3554	0.0341	264.44	0.88
lnc-EIF1AD-1:1	SEQ2653	0.0152	2.12	0.92	lnc-SLC17A5-1:7	SEQ3555	0.0260	0.18	0.89
lnc-ENOPH1-3:3	SEQ3381	0.0087	2.42	0.94	lnc-TMEM155-3:1	SEQ3556	0.0043	3.02	0.97
lnc-EPGN-4:1	SEQ3382	0.0411	0.05	0.86	SH3BP5-AS1:2	SEQ3557	0.0260	2.54	0.89
lnc-ERCC6L2-14:1	SEQ3383	0.0152	2.20	0.92	lnc-SPRED2-22:1	SEQ2584	0.0260	2.44	0.89
lnc-ESRP2-2:9	SEQ3384	0.0260	2.54	0.89	lnc-NSUN5-2:1	SEQ3558	0.0411	2.72	0.86
lnc-EXOC3L4-3:1	SEQ3385	0.0043	13.96	0.97	lnc-TAGLN-2:1	SEQ3559	0.0043	2.88	0.97
lnc-EYS-1:1	SEQ3386	0.0411	3.12	0.86	lnc-OR1A2-1:1	SEQ3560	0.0411	2.72	0.86
lnc-FAAP100-2:1	SEQ2299	0.0260	1.40	0.89	lnc-SYNGR1-5:1	SEQ3561	0.0260	0.52	0.89
lnc-FAM103A1-2:5	SEQ2607	0.0087	2.37	0.94	POT1-AS1:2	SEQ3562	0.0260	5.77	0.89

lnc-FAM156A-2:1	SEQ3387	0.0129	3.46	0.94	TCONS_00011974	SEQ1218	0.0411	2.10	0.86
lnc-FAM177B-1:1	SEQ3388	0.0411	1.86	0.86	lnc-TMEM234-1:4	SEQ3563	0.0260	3.40	0.89
lnc-FAM231C-7:6	SEQ3389	0.0260	2.23	0.89	lnc-RRN3-3:5	SEQ2770	0.0043	3.61	0.97
lnc-FAM72B-7:2	SEQ3390	0.0152	4.07	0.92	lnc-STAU2-3:4	SEQ3564	0.0072	33.24	0.97
lnc-FAM72D-4:1	SEQ3391	0.0260	2.98	0.89	lnc-PLA2G15-2:2	SEQ3565	0.0411	2.29	0.86
lnc-FANCL-4:1	SEQ2690	0.0152	2.43	0.92	lnc-PXN-1:1	SEQ2506	0.0411	3.05	0.86
lnc-FBN1-3:2	SEQ3392	0.0043	7.16	0.97	lnc-UBAC1-2:1	SEQ3566	0.0411	4.42	0.86
lnc-FER-6:1	SEQ3393	0.0260	3.17	0.89	TUG1:21	SEQ3567	0.0411	0.36	0.86
lnc-FKBP6-4:1	SEQ3394	0.0152	2.65	0.92	MIR4453HG:2	SEQ3568	0.0411	2.78	0.86
lnc-FNDC1-9:9	SEQ3395	0.0411	2.55	0.86	lnc-SUGT1-3:1	SEQ0131	0.0341	56.87	0.88
lnc-GAPT-6:2	SEQ3396	0.0152	5.48	0.92	lnc-OSBPL7-3:1	SEQ3569	0.0260	0.44	0.89
lnc-GAS2-1:15	SEQ3397	0.0411	2.21	0.86	lnc-SLA2-1:1	SEQ3570	0.0411	2.70	0.86
lnc-GDAP2-3:2	SEQ3398	0.0411	1.82	0.86	lnc-TRIM28-13:1	SEQ3571	0.0152	3.75	0.92
lnc-GNA11-3:1	SEQ2681	0.0411	2.23	0.86	lnc-ZBTB20-1:4	SEQ3572	0.0411	3.11	0.86
lnc-GNA11-3:2	SEQ3399	0.0438	5.64	0.86	PXN-AS1:15	SEQ3573	0.0411	4.12	0.86
lnc-GOLGA8F-8:1	SEQ3400	0.0295	3.85	0.89	PSMA3-AS1:6	SEQ3574	0.0087	14.53	0.94
lnc-GPR160-2:1	SEQ3401	0.0411	1.49	0.86	lnc-SP140-3:4	SEQ3575	0.0124	11.42	0.94
lnc-GPR37L1-7:4	SEQ3402	0.0260	3.80	0.89	VIM-AS1:7	SEQ3576	0.0411	5.99	0.86
lnc-GPR83-5:1	SEQ3403	0.0043	1.86	0.97	lnc-TUFM-3:3	SEQ3577	0.0260	2.21	0.89
lnc-GRB7-1:1	SEQ3404	0.0043	48.62	0.97	lnc-SLC45A4-8:1	SEQ3578	0.0152	3.34	0.92
lnc-GRINA-2:1	SEQ2969	0.0411	2.10	0.86	lnc-RLIM-4:1	SEQ3579	0.0260	2.41	0.89
lnc-GRK4-2:7	SEQ3405	0.0411	1.97	0.86	lnc-RACK1-1:2	SEQ3580	0.0260	4.55	0.89
lnc-HAAO-7:6	SEQ3406	0.0411	0.25	0.86	lnc-TRIM28-13:2	SEQ3581	0.0260	10.16	0.89
lnc-HAO2-2:1	SEQ3407	0.0078	27.85	0.97	lnc-SPOCK2-1:2	SEQ3582	0.0416	2.43	0.86
lnc-HARS-1:1	SEQ3408	0.0411	0.50	0.86	lnc-USP44-3:1	SEQ3583	0.0411	3.20	0.86
lnc-HBG2-1:1	SEQ3409	0.0043	3.45	0.97	ZNF341-AS1:10	SEQ3584	0.0087	1.96	0.94
lnc-HEATR4-6:1	SEQ3410	0.0341	12.48	0.88	lnc-RBM11-5:4	SEQ3585	0.0278	6.38	0.89
lnc-HELB-2:1	SEQ3411	0.0260	3.55	0.89	TCONS_00066563	SEQ2107	0.0260	0.19	0.89
lnc-HLA-DOB-1:1	SEQ3412	0.0450	4.00	0.86	lnc-ROM1-7:3	SEQ3586	0.0152	2.37	0.92
lnc-HMBOX1-1:1	SEQ3413	0.0087	33.72	0.94	lnc-WNT1-5:1	SEQ3587	0.0411	2.54	0.86
lnc-HMGA1-2:11	SEQ3414	0.0411	5.75	0.86	lnc-WDR45B-1:2	SEQ3588	0.0194	9.06	0.92
lnc-HMGA1-2:4	SEQ3415	0.0260	2.70	0.89	lnc-ROM1-7:6	SEQ3589	0.0411	2.31	0.86
lnc-HMGN5-3:1	SEQ3416	0.0260	2.42	0.89	ST7-AS1:1	SEQ3590	0.0411	1.76	0.86
lnc-HMHB1-6:2	SEQ3417	0.0087	4.03	0.94	lnc-TBP-3:1	SEQ3591	0.0411	2.93	0.86

lnc-HTR1B-1:4	SEQ3418	0.0411	3.85	0.86	lnc-RASGRP1-6:1	SEQ3592	0.0200	6.95	0.92
lnc-IER5-3:1	SEQ2286	0.0284	Inf	0.83	lnc-ZNF726-5:2	SEQ3593	0.0260	2.69	0.89
lnc-IFFO1-3:1	SEQ3419	0.0152	1.35	0.92	TUG1:9	SEQ3594	0.0411	2.02	0.86
lnc-IFNG-3:1	SEQ3420	0.0450	5.01	0.86	lnc-SLC9A3-1:2	SEQ3595	0.0200	9.54	0.92
lnc-IGIP-2:3	SEQ3421	0.0087	3.95	0.94	lnc-RBL2-4:3	SEQ3596	0.0081	9.83	0.97
lnc-IGSF9B-2:1	SEQ2987	0.0152	3.85	0.92	lnc-VSNL1-5:1	SEQ3597	0.0260	2.45	0.89
lnc-IL18BP-1:2	SEQ3422	0.0411	2.29	0.86	TCONS_00059492	SEQ1962	0.0438	3.97	0.86
lnc-IL18BP-1:3	SEQ3423	0.0411	2.29	0.86	lnc-RIPOR2-3:1	SEQ3598	0.0411	2.37	0.86
lnc-IL20RA-3:1	SEQ3424	0.0260	0.27	0.89	lnc-TCTA-2:1	SEQ2757	0.0260	1.35	0.89
lnc-ITGB4-2:3	SEQ3425	0.0260	2.59	0.89	lnc-PSMC3IP-1:1	SEQ3599	0.0260	3.02	0.89
lnc-JAM2-11:1	SEQ3426	0.0152	1.77	0.92	lnc-PROC-1:11	SEQ3600	0.0152	4.36	0.92
lnc-JMJD6-1:5	SEQ3427	0.0411	4.30	0.86	TP53TG1:3	SEQ3601	0.0043	21.53	0.97
lnc-JMJD7-PLA2G4B-2:8	SEQ3428	0.0411	3.59	0.86	MALAT1:11	SEQ3276	0.0260	2.03	0.89
lnc-KALRN-5:10	SEQ3429	0.0260	3.54	0.89	lnc-PCGF2-4:1	SEQ3602	0.0260	6.82	0.89
lnc-KIAA1644-1:1	SEQ3430	0.0411	3.72	0.86	lnc-SQSTM1-2:2	SEQ3603	0.0411	1.77	0.86
lnc-KLHDC9-5:4	SEQ3431	0.0260	3.67	0.89	TUG1:44	SEQ3604	0.0411	6.33	0.86
lnc-KLHL25-6:1	SEQ3432	0.0152	2.93	0.92	SH3BP5-AS1:1	SEQ3605	0.0260	2.54	0.89
lnc-KRT80-3:1	SEQ3433	0.0438	3.65	0.86	TRG-AS1:14	SEQ3606	0.0152	20.18	0.92
lnc-LAMA5-1:4	SEQ3434	0.0022	10.44	1.00	lnc-RSC1A1-1:1	SEQ3607	0.0411	2.65	0.86
lnc-LAMA5-4:1	SEQ3435	0.0260	2.18	0.89	lnc-NUP153-3:5	SEQ3608	0.0450	3.13	0.86
lnc-LHPP-6:6	SEQ3436	0.0411	3.85	0.86	lnc-TAOK1-4:1	SEQ3609	0.0043	3.26	0.97
lnc-LIN7A-3:1	SEQ3437	0.0167	12.31	0.90	lnc-ZBTB2-6:1	SEQ3610	0.0411	3.43	0.86
lnc-LPIN3-1:1	SEQ3438	0.0124	5.66	0.94	lnc-PILRB-1:3	SEQ3611	0.0411	39.86	0.86
lnc-LRCH1-6:1	SEQ3439	0.0152	1.86	0.92	lnc-RBMS2-4:1	SEQ2378	0.0087	4.62	0.94
lnc-LRIG2-10:1	SEQ3440	0.0411	1.81	0.86	lnc-SUGCT-4:1	SEQ3612	0.0152	2.79	0.92
lnc-LRR1-1:2	SEQ0813	0.0411	0.29	0.86	lnc-RNF24-3:1	SEQ3613	0.0411	1.57	0.86
lnc-LRR1-1:3	SEQ0814	0.0411	0.81	0.86	lnc-NUS1-5:1	SEQ3614	0.0411	2.03	0.86
lnc-LRRC10-1:2	SEQ3441	0.0087	3.06	0.94	ZNF341-AS1:9	SEQ3615	0.0152	1.81	0.92
lnc-LRRC37A3-5:8	SEQ3442	0.0050	1.E+21	1.00	lnc-STAR-1:2	SEQ3616	0.0043	2.51	0.97
lnc-MANBA-2:9	SEQ3443	0.0260	2.39	0.89	TRHDE-AS1:14	SEQ3617	0.0087	0.23	0.94
lnc-MARCH7-3:1	SEQ3444	0.0260	3.61	0.89	lnc-SLC3A2-6:1	SEQ2428	0.0411	1.89	0.86
lnc-MASTL-6:1	SEQ2430	0.0278	5.38	0.89	lnc-WRB-7:2	SEQ3618	0.0411	2.32	0.86
lnc-MAX-16:1	SEQ3445	0.0260	1.68	0.89	lnc-PSMB9-6:5	SEQ3619	0.0260	3.91	0.89
lnc-MCTP2-7:4	SEQ3446	0.0411	3.33	0.86	lnc-TIPIN-1:1	SEQ3620	0.0303	5.03	0.89
lnc-MEP1B-2:1	SEQ3447	0.0260	2.36	0.89	lnc-SPATA32-4:1	SEQ3621	0.0087	3.81	0.94

lnc-MFSD13A-2:1	SEQ3448	0.0152	2.34	0.92	lnc-VSIG4-2:1	SEQ3622	0.0087	3.33	0.94
lnc-MIEN1-1:1	SEQ3449	0.0411	2.60	0.86	lnc-TRAK1-1:1	SEQ3623	0.0379	41.45	0.86
lnc-MLLT1-2:1	SEQ3450	0.0152	2.16	0.92	lnc-TMEM178A-1:7	SEQ3624	0.0295	21.47	0.89
lnc-MLX-3:1	SEQ3451	0.0087	3.16	0.94	PITPNA-AS1:3	SEQ3625	0.0260	3.07	0.89
lnc-MNX1-11:1	SEQ3452	0.0124	5.74	0.94	lnc-RNF135-1:27	SEQ3626	0.0129	117.53	0.94
lnc-MROH6-1:1	SEQ3453	0.0129	17.08	0.94	lnc-OTULIN-1:1	SEQ3627	0.0260	3.04	0.89
lnc-MYOM1-6:3	SEQ3454	0.0022	5.94	1.00	PSMA3-AS1:40	SEQ3628	0.0152	7.16	0.92
lnc-NAMPT-1:2	SEQ3455	0.0260	2.03	0.89	lnc-TSSK6-1:1	SEQ3629	0.0152	4.37	0.92
lnc-NINJ1-2:1	SEQ3456	0.0043	2.75	0.97	lnc-PLPP2-5:3	SEQ3630	0.0411	1.71	0.86
lnc-NR2F6-5:1	SEQ3457	0.0043	2.51	0.97	lnc-STON2-5:1	SEQ3631	0.0087	1.92	0.94
PCBP1-AS1:217	SEQ3458	0.0087	1.54	0.94	ZNF528-AS1:16	SEQ3632	0.0194	4.E+08	0.92

2847 lncRNAs were differentially expressed in whole blood (Paxgene RNA tube) of MCI group or mild AD group or moderate-to-severe AD group or both of these AD groups or FTD group or DLB group as compared to healthy control group, and having statistical significance (p value <0.05, Wilcoxon test) and a fold change FC≤0.80 or ≥1.20. These lncRNAs showed a differential expression with a statistical significance for at least one disease group when compared to healthy control group (p value<0.05, Wilcoxon). The 2847 lncRNAs are shown in Table 10.

Table 10: 2847 whole blood (Paxgene RNA tube) lncRNAs differentially expressed in MCI group or mild AD group or moderate-to-severe AD group or both of these AD groups or FTD group or DLB group as compared to healthy control group.

Group	lncRNA	SEQ	p-value	FC	Group	lncRNA	SEQ	p-value	FC
DLB	A1BG-AS1:13	SEQ5267	1.E-04	1.8	DLB	lnc-MRPS5-2:2	SEQ4304	1.E-03	1.8
MCI	A1BG-AS1:13	SEQ5267	5.E-04	1.6	miAD	lnc-MRPS5-2:2	SEQ4304	7.E-03	1.4
DLB	A2M-AS1:3	SEQ5584	2.E-04	2.5	All AD	lnc-MRPS5-2:2	SEQ4304	1.E-02	1.4
DLB	AATBC:4	SEQ4566	2.E-03	1.4	MCI	lnc-MRPS5-2:3	SEQ4165	1.E-04	2.1
DLB	AATBC:5	SEQ4567	2.E-03	1.4	miAD	lnc-MRPS5-2:3	SEQ4165	1.E-02	1.4
DLB	ACBD3-AS1:14	SEQ5759	8.E-05	2.2	All AD	lnc-MRPS5-2:3	SEQ4165	2.E-02	1.3
msAD	ACTN1-AS1:6	SEQ3638	3.E-02	1.2	MCI	lnc-MRPS5-4:3	SEQ5499	2.E-04	2.2
All AD	ACTN1-AS1:6	SEQ3638	4.E-02	1.2	DLB	lnc-MTERF1-5:1	SEQ4758	1.E-03	1.5
All AD	ADAMTSL4-AS1:1	SEQ3640	2.E-02	0.8	All AD	lnc-MTFR1L-1:4	SEQ5202	3.E-02	1.3
msAD	ADAMTSL4-AS1:1	SEQ3640	2.E-02	0.8	FTD	lnc-MTHFD1-3:1	SEQ4184	8.E-07	0.5
FTD	ADNP-AS1:12	SEQ0340	3.E-04	0.6	All AD	lnc-MTHFD1-3:1	SEQ4184	8.E-03	0.7
MCI	AGAP2-AS1:1	SEQ3643	4.E-05	2.0	miAD	lnc-MTHFD1-3:1	SEQ4184	1.E-02	0.6
All AD	AGAP2-AS1:1	SEQ3643	3.E-02	1.3	FTD	lnc-MTPN-1:1	SEQ4462	2.E-05	0.3
All AD	AIRN:2	SEQ3645	2.E-02	0.8	miAD	lnc-MTPN-1:1	SEQ4462	2.E-04	0.4
FTD	ANKRD10-IT1:2	SEQ5990	1.E-06	0.4	All AD	lnc-MTPN-1:1	SEQ4462	3.E-04	0.5

FTD	ANKRD44-IT1:1	SEQ4807	1.E-03	0.7	msAD	lnc-MTPN-1:1	SEQ4462	2.E-03	0.5
DLB	APOBEC3B-AS1:2	SEQ5079	2.E-05	0.4	miAD	lnc-MTRNR2L3-1:2	SEQ4241	1.E-02	1.3
MCI	APOBEC3B-AS1:2	SEQ5079	1.E-04	0.5	All AD	lnc-MTRNR2L3-1:2	SEQ4241	1.E-02	1.2
FTD	APOBEC3B-AS1:2	SEQ5079	6.E-04	0.5	DLB	lnc-MTUS2-9:1	SEQ4829	9.E-04	1.3
miAD	APTR:15	SEQ3651	4.E-03	0.7	DLB	lnc-MUC17-4:1	SEQ5244	5.E-04	1.4
All AD	APTR:15	SEQ3651	5.E-03	0.7	DLB	lnc-MUC20-16:1	SEQ4224	6.E-05	1.5
msAD	APTR:15	SEQ3651	3.E-02	0.8	MCI	lnc-MUC20-16:1	SEQ4224	6.E-05	1.5
All AD	APTR:16	SEQ3636	2.E-02	0.8	miAD	lnc-MUC20-16:1	SEQ4224	7.E-04	1.3
msAD	APTR:16	SEQ3636	5.E-02	0.8	All AD	lnc-MUC20-16:1	SEQ4224	1.E-03	1.3
miAD	APTR:17	SEQ0260	5.E-03	0.7	msAD	lnc-MUC20-16:1	SEQ4224	1.E-02	1.3
All AD	APTR:17	SEQ0260	9.E-03	0.7	MCI	lnc-MUC20-16:2	SEQ4127	4.E-07	2.1
DLB	ARAP1-AS1:1	SEQ4621	1.E-03	1.4	DLB	lnc-MUC20-16:2	SEQ4127	6.E-06	2.0
MCI	ASH1L-AS1:1	SEQ4883	9.E-04	2.3	FTD	lnc-MUC20-16:2	SEQ4127	1.E-05	1.9
DLB	ATP1A1-AS1:5	SEQ5498	2.E-04	2.0	miAD	lnc-MUC20-16:2	SEQ4127	2.E-03	1.4
DLB	ATP2A1-AS1:12	SEQ5180	5.E-04	1.4	All AD	lnc-MUC20-16:2	SEQ4127	2.E-03	1.3
DLB	ATP6V0E2-AS1:1	SEQ4643	1.E-03	1.6	msAD	lnc-MUC20-16:2	SEQ4127	1.E-02	1.3
MCI	ATP6V0E2-AS1:14	SEQ3659	3.E-06	2.3	DLB	lnc-MUC5B-1:1	SEQ5724	9.E-05	1.4
FTD	ATP6V0E2-AS1:14	SEQ3659	6.E-04	1.6	DLB	lnc-MUSTN1-1:1	SEQ5656	1.E-04	1.4
miAD	ATP6V0E2-AS1:14	SEQ3659	7.E-04	1.6	FTD	lnc-MVB12B-7:1	SEQ5716	1.E-04	0.5
All AD	ATP6V0E2-AS1:14	SEQ3659	2.E-02	1.3	DLB	lnc-MVP-3:6	SEQ5362	7.E-06	2.1
DLB	ATP6V0E2-AS1:18	SEQ3663	4.E-04	1.9	MCI	lnc-MVP-3:6	SEQ5362	1.E-05	2.3
MCI	ATP6V0E2-AS1:18	SEQ3663	2.E-03	1.6	FTD	lnc-MVP-3:6	SEQ5362	4.E-04	1.8
msAD	ATP6V0E2-AS1:18	SEQ3663	2.E-02	1.2	msAD	lnc-MYBBP1A-2:1	SEQ4100	1.E-02	1.4
All AD	ATP6V0E2-AS1:18	SEQ3663	3.E-02	1.2	All AD	lnc-MYBBP1A-2:1	SEQ4100	2.E-02	1.4
MCI	ATP6V0E2-AS1:19	SEQ4794	1.E-03	2.4	FTD	lnc-MYF5-2:3	SEQ2245	4.E-08	0.4
DLB	ATP6V0E2-AS1:22	SEQ5142	6.E-04	1.8	DLB	lnc-MYF5-2:3	SEQ2245	9.E-05	0.5
MCI	ATP6V0E2-AS1:27	SEQ5188	3.E-04	1.5	MCI	lnc-MYF5-2:3	SEQ2245	1.E-04	0.5
DLB	ATP6V0E2-AS1:27	SEQ5188	5.E-04	1.5	miAD	lnc-MYF5-2:3	SEQ2245	1.E-03	0.6
FTD	BACH1-IT1:1	SEQ5153	5.E-04	0.6	All AD	lnc-MYF5-2:3	SEQ2245	6.E-03	0.6
DLB	BISPR:20	SEQ5519	2.E-04	1.4	FTD	lnc-MYF5-2:4	SEQ2296	4.E-09	0.4
miAD	BOLA3-AS1:14	SEQ3673	9.E-05	2.3	MCI	lnc-MYF5-2:4	SEQ2296	3.E-05	0.4
All AD	BOLA3-AS1:14	SEQ3673	2.E-04	2.0	DLB	lnc-MYF5-2:4	SEQ2296	4.E-05	0.5
FTD	BOLA3-AS1:14	SEQ3673	3.E-04	2.8	miAD	lnc-MYF5-2:4	SEQ2296	2.E-04	0.5
msAD	BOLA3-AS1:14	SEQ3673	4.E-03	1.7	All AD	lnc-MYF5-2:4	SEQ2296	2.E-03	0.6
FTD	BOLA3-AS1:25	SEQ3677	1.E-05	0.6	msAD	lnc-MYF5-2:4	SEQ2296	4.E-02	0.6
All AD	BOLA3-AS1:25	SEQ3677	3.E-02	0.8	FTD	lnc-MYF5-2:5	SEQ4262	4.E-05	0.6
DLB	C6orf47-AS1:1	SEQ4838	9.E-04	1.4	miAD	lnc-MYF5-2:5	SEQ4262	9.E-03	0.7
DLB	CACTIN-AS1:2	SEQ3680	4.E-05	1.7	All AD	lnc-MYF5-2:5	SEQ4262	2.E-02	0.7
msAD	CACTIN-AS1:2	SEQ3680	1.E-03	1.3	All AD	lnc-MYH9-1:1	SEQ4021	1.E-02	0.7
All AD	CACTIN-AS1:2	SEQ3680	1.E-03	1.3	msAD	lnc-MYH9-1:1	SEQ4021	2.E-02	0.7
MCI	CACTIN-AS1:2	SEQ3680	1.E-03	1.3	DLB	lnc-MYLPF-3:2	SEQ5847	4.E-05	1.5
miAD	CACTIN-AS1:2	SEQ3680	6.E-03	1.3	MCI	lnc-MYO16-7:1	SEQ4673	1.E-03	0.8
DLB	CACTIN-AS1:5	SEQ2914	3.E-04	1.7	DLB	lnc-MYO1D-1:2	SEQ5020	7.E-04	1.4

MCI	CACTIN-AS1:5	SEQ2914	7.E-04	1.7	FTD	lnc-MYO6-1:1	SEQ4205	8.E-06	0.5
All AD	CACTIN-AS1:6	SEQ3686	5.E-02	1.2	miAD	lnc-MYO6-1:1	SEQ4205	1.E-02	0.7
DLB	CAPN10-AS1:2	SEQ5209	5.E-04	1.8	All AD	lnc-MYO6-1:1	SEQ4205	1.E-02	0.7
DLB	CARD8-AS1:5	SEQ4426	2.E-03	1.5	FTD	lnc-MYOM1-6:2	SEQ5872	3.E-05	0.6
DLB	CASC2:1	SEQ2645	5.E-05	1.5	DLB	lnc-N4BP2-3:1	SEQ3688	5.E-05	2.4
All AD	CATIP-AS1:6	SEQ3690	5.E-02	0.8	All AD	lnc-N4BP2-3:1	SEQ3688	3.E-02	1.3
DLB	CCDC144NL-AS1:22	SEQ4979	5.E-05	1.9	msAD	lnc-N4BP2-3:1	SEQ3688	5.E-02	1.3
MCI	CCDC144NL-AS1:22	SEQ4979	8.E-04	1.8	DLB	lnc-N4BP2L1-4:1	SEQ5458	3.E-04	2.0
DLB	CCDC144NL-AS1:50	SEQ3693	2.E-05	1.9	All AD	lnc-NAA35-13:2	SEQ5233	4.E-02	0.8
MCI	CCDC144NL-AS1:50	SEQ3693	2.E-05	2.1	FTD	lnc-NAA38-5:1	SEQ4193	5.E-04	0.7
msAD	CCDC144NL-AS1:50	SEQ3693	2.E-02	1.2	miAD	lnc-NAA38-5:1	SEQ4193	1.E-02	0.8
All AD	CCDC144NL-AS1:50	SEQ3693	4.E-02	1.2	All AD	lnc-NAA38-5:1	SEQ4193	4.E-02	0.8
DLB	CCDC144NL-AS1:51	SEQ3697	2.E-05	1.9	FTD	lnc-NABP1-1:1	SEQ5416	3.E-04	0.7
MCI	CCDC144NL-AS1:51	SEQ3697	4.E-05	2.0	FTD	lnc-NABP1-1:2	SEQ4356	1.E-05	0.6
FTD	CCDC144NL-AS1:51	SEQ3697	6.E-04	1.4	miAD	lnc-NABP1-1:2	SEQ4356	4.E-03	0.7
All AD	CCDC144NL-AS1:51	SEQ3697	1.E-02	1.2	All AD	lnc-NABP1-1:2	SEQ4356	1.E-02	0.7
msAD	CCDC144NL-AS1:51	SEQ3697	3.E-02	1.2	MCI	lnc-NABP1-5:1	SEQ4160	1.E-03	1.6
DLB	CCDC183-AS1:4	SEQ3701	2.E-05	1.5	All AD	lnc-NABP1-5:1	SEQ4160	7.E-03	1.3
MCI	CCDC183-AS1:4	SEQ3701	6.E-04	1.3	msAD	lnc-NABP1-5:1	SEQ4160	1.E-02	1.3
All AD	CCDC183-AS1:4	SEQ3701	2.E-02	1.1	FTD	lnc-NAMPT-1:2	SEQ3455	8.E-05	0.6
msAD	CCDC183-AS1:4	SEQ3701	2.E-02	1.1	DLB	lnc-NAT1-7:2	SEQ4687	1.E-03	1.4
MCI	CCDC183-AS1:5	SEQ2925	7.E-04	1.6	FTD	lnc-NAT9-1:1	SEQ4159	3.E-07	1.7
All AD	CCDC18-AS1:45	SEQ3706	5.E-02	1.3	MCI	lnc-NAT9-1:1	SEQ4159	1.E-06	2.1
miAD	CD27-AS1:1	SEQ3707	1.E-02	1.4	DLB	lnc-NAT9-1:1	SEQ4159	3.E-06	2.0
All AD	CD27-AS1:1	SEQ3707	2.E-02	1.3	miAD	lnc-NAT9-1:1	SEQ4159	1.E-02	1.2
FTD	CEBPB-AS1:2	SEQ4719	2.E-04	1.8	All AD	lnc-NAT9-1:1	SEQ4159	2.E-02	1.2
MCI	CEBPB-AS1:2	SEQ4719	5.E-04	1.9	DLB	lnc-NAT9-1:4	SEQ5013	7.E-04	1.4
DLB	CEBPB-AS1:2	SEQ4719	1.E-03	1.7	MCI	lnc-NAV1-9:1	SEQ5343	5.E-05	2.1
miAD	CFAP58-AS1:4	SEQ0109	1.E-02	0.7	DLB	lnc-NAV1-9:1	SEQ5343	4.E-04	2.2
All AD	CFAP58-AS1:4	SEQ0109	3.E-02	0.7	DLB	lnc-NAXD-4:1	SEQ2736	2.E-03	1.3
FTD	CFLAR-AS1:22	SEQ3712	2.E-05	0.6	FTD	lnc-NBN-2:1	SEQ3838	1.E-05	0.6
All AD	CFLAR-AS1:22	SEQ3712	2.E-02	0.7	All AD	lnc-NBN-2:1	SEQ3838	1.E-02	0.7
FTD	CHMP1B-AS1:2	SEQ2249	1.E-07	0.4	miAD	lnc-NBN-2:1	SEQ3838	1.E-02	0.7
MCI	CHMP1B-AS1:2	SEQ2249	3.E-04	0.4	msAD	lnc-NBN-2:1	SEQ3838	3.E-02	0.8
DLB	CHMP1B-AS1:2	SEQ2249	2.E-03	0.5	DLB	lnc-NBPF1-1:12	SEQ4728	2.E-04	3.1
All AD	CHMP1B-AS1:2	SEQ2249	2.E-02	0.6	MCI	lnc-NBPF1-1:12	SEQ4728	1.E-03	2.5
miAD	CKMT2-AS1:32	SEQ3713	3.E-03	1.7	DLB	lnc-NBPF1-1:6	SEQ3026	8.E-05	2.4
All AD	CKMT2-AS1:32	SEQ3713	9.E-03	1.5	FTD	lnc-NBPF1-1:6	SEQ3026	5.E-04	2.0
MCI	CPEB2-AS1:4	SEQ4788	1.E-03	1.8	MCI	lnc-NBPF1-1:6	SEQ3026	1.E-03	2.0
DLB	CTBP1-AS:2	SEQ4927	8.E-04	1.4	FTD	lnc-NBPF15-1:2	SEQ4591	1.E-03	1.6
DLB	CTBP1-AS:3	SEQ5245	2.E-05	1.6	MCI	lnc-NBPF15-1:2	SEQ4591	2.E-03	1.6
MCI	CTBP1-AS:3	SEQ5245	5.E-04	1.4	DLB	lnc-NBPF15-1:2	SEQ4591	2.E-03	1.8
FTD	CYTOR:49	SEQ3721	4.E-04	0.5	MCI	lnc-NBPF3-3:6	SEQ3144	1.E-03	1.7

miAD	CYTOR:49	SEQ3721	7.E-03	0.6	MCI	lnc-NBPF3-3:7	SEQ4651	2.E-04	1.8
All AD	CYTOR:49	SEQ3721	7.E-03	0.7	DLB	lnc-NBPF3-3:7	SEQ4651	1.E-03	1.8
msAD	CYTOR:49	SEQ3721	3.E-02	0.7	miAD	lnc-NBPF3-8:1	SEQ3929	4.E-03	0.6
DLB	CYTOR:50	SEQ5178	5.E-04	1.4	All AD	lnc-NBPF3-8:1	SEQ3929	5.E-03	0.7
FTD	DARS-AS1:43	SEQ3725	7.E-04	0.7	msAD	lnc-NBPF3-8:1	SEQ3929	3.E-02	0.7
All AD	DARS-AS1:43	SEQ3725	1.E-02	0.7	FTD	lnc-NCKAP1-5:2	SEQ4381	4.E-04	0.6
msAD	DARS-AS1:43	SEQ3725	3.E-02	0.7	miAD	lnc-NCKAP1-5:2	SEQ4381	3.E-03	0.7
MCI	DDIT4-AS1:2	SEQ5738	9.E-05	1.7	All AD	lnc-NCKAP1-5:2	SEQ4381	9.E-03	0.7
DLB	DGUOK-AS1:7	SEQ5186	5.E-04	1.5	FTD	lnc-NCOA4-6:1	SEQ5061	7.E-04	0.6
FTD	DIAPH2-AS1:8	SEQ4994	8.E-04	0.6	FTD	lnc-NDFIP2-13:1	SEQ4472	1.E-04	0.5
FTD	DLEU1:2	SEQ3732	3.E-07	0.5	MCI	lnc-NDFIP2-13:1	SEQ4472	2.E-03	0.6
miAD	DLEU1:2	SEQ3732	3.E-04	0.6	All AD	lnc-NDFIP2-13:1	SEQ4472	3.E-02	0.7
MCI	DLEU1:2	SEQ3732	2.E-03	0.6	DLB	lnc-NDFIP2-26:2	SEQ3696	4.E-04	1.4
All AD	DLEU1:2	SEQ3732	2.E-03	0.6	All AD	lnc-NDFIP2-26:2	SEQ3696	4.E-02	1.1
msAD	DLEU1:2	SEQ3732	3.E-02	0.7	msAD	lnc-NDFIP2-26:2	SEQ3696	5.E-02	1.1
FTD	DLEU1:3	SEQ3735	8.E-05	0.6	DLB	lnc-NDRG1-2:1	SEQ4828	2.E-04	1.4
All AD	DLEU1:3	SEQ3735	4.E-02	0.7	MCI	lnc-NDRG1-2:1	SEQ4828	9.E-04	1.3
FTD	DLEU1:54	SEQ3736	2.E-05	0.6	DLB	lnc-NDRG1-5:1	SEQ4864	2.E-05	1.8
All AD	DLEU1:54	SEQ3736	5.E-02	0.7	MCI	lnc-NDRG1-5:1	SEQ4864	9.E-04	1.6
All AD	DLEU2:26	SEQ0862	2.E-02	0.7	DLB	lnc-NDRG1-7:2	SEQ5432	3.E-04	1.4
All AD	DLEU2:32	SEQ2776	7.E-03	0.7	MCI	lnc-NDRG1-7:2	SEQ5432	3.E-04	1.4
miAD	DLEU2:32	SEQ2776	1.E-02	0.7	DLB	lnc-NDRG1-7:4	SEQ4677	2.E-04	1.3
msAD	DLEU2:32	SEQ2776	2.E-02	0.8	MCI	lnc-NDRG1-7:4	SEQ4677	1.E-03	1.3
FTD	DLEU2:45	SEQ0863	9.E-05	0.7	All AD	lnc-NDUFA4-2:1	SEQ5260	5.E-02	1.2
All AD	DLEU2:45	SEQ0863	2.E-03	0.7	msAD	lnc-NDUFA6-2:2	SEQ3899	3.E-02	1.2
miAD	DLEU2:45	SEQ0863	2.E-03	0.7	DLB	lnc-NDUFAF8-1:3	SEQ5031	7.E-04	1.5
msAD	DLEU2:45	SEQ0863	1.E-02	0.8	DLB	lnc-NDUFAF8-1:4	SEQ4629	1.E-03	1.4
MCI	DLEU2:5	SEQ5943	9.E-06	0.1	FTD	lnc-NDUFB3-3:3	SEQ3750	2.E-04	0.5
FTD	DLG5-AS1:10	SEQ5411	3.E-04	0.6	miAD	lnc-NDUFB3-3:3	SEQ3750	6.E-04	0.6
DLB	DLGAP4-AS1:11	SEQ4702	1.E-03	1.5	All AD	lnc-NDUFB3-3:3	SEQ3750	3.E-03	0.6
MCI	DNAJC9-AS1:9	SEQ4869	9.E-04	1.6	msAD	lnc-NDUFB3-3:3	SEQ3750	4.E-02	0.7
DLB	DPP9-AS1:1	SEQ4563	2.E-03	1.4	DLB	lnc-NECAB3-1:1	SEQ5198	3.E-04	1.8
FTD	DPYD-AS1:3	SEQ3747	5.E-05	0.7	MCI	lnc-NECAB3-1:1	SEQ5198	5.E-04	1.7
All AD	DPYD-AS1:3	SEQ3747	3.E-02	0.7	DLB	lnc-NEIL1-1:2	SEQ5266	7.E-06	1.7
msAD	DPYD-AS1:3	SEQ3747	4.E-02	0.8	FTD	lnc-NEIL1-1:2	SEQ5266	1.E-04	1.4
FTD	DPYD-AS2:1	SEQ4360	8.E-05	0.6	All AD	lnc-NEIL1-1:2	SEQ5266	4.E-02	1.2
miAD	DPYD-AS2:1	SEQ4360	4.E-03	0.7	DLB	lnc-NEK5-1:3	SEQ5482	2.E-04	1.5
FTD	EAF1-AS1:15	SEQ5886	3.E-05	0.7	FTD	lnc-NEK7-4:1	SEQ4217	4.E-06	0.5
FTD	EIF1B-AS1:18	SEQ5465	3.E-04	0.6	miAD	lnc-NEK7-4:1	SEQ4217	1.E-02	0.7
FTD	EIF3J-AS1:21	SEQ0261	9.E-04	0.6	All AD	lnc-NEK7-4:1	SEQ4217	2.E-02	0.7
DLB	ELOA-AS1:4	SEQ5251	5.E-04	1.5	FTD	lnc-NEMF-1:4	SEQ3674	3.E-11	4.2
FTD	ENTPD1-AS1:12	SEQ3757	9.E-04	0.6	MCI	lnc-NEMF-1:4	SEQ3674	3.E-05	3.0
miAD	ENTPD1-AS1:12	SEQ3757	3.E-03	0.6	msAD	lnc-NEMF-1:4	SEQ3674	5.E-02	1.3

All AD	ENTPD1-AS1:12	SEQ3757	8.E-03	0.7	FTD	lnc-NEMF-2:2	SEQ2656	6.E-08	5.6
All AD	ENTPD1-AS1:23	SEQ3758	3.E-02	0.8	MCI	lnc-NEMF-2:2	SEQ2656	6.E-05	4.1
FTD	ENTPD1-AS1:34	SEQ5552	2.E-04	0.7	DLB	lnc-NEMF-2:2	SEQ2656	2.E-03	3.0
All AD	ENTPD1-AS1:5	SEQ3760	5.E-02	0.8	All AD	lnc-NEMF-2:2	SEQ2656	2.E-02	2.3
FTD	FAM13A-AS1:1	SEQ3762	1.E-04	0.6	DLB	lnc-NEMF-4:1	SEQ4738	8.E-05	1.4
All AD	FAM13A-AS1:1	SEQ3762	8.E-03	0.7	MCI	lnc-NEMF-4:1	SEQ4738	1.E-03	1.3
miAD	FAM13A-AS1:1	SEQ3762	1.E-02	0.7	DLB	lnc-NEMP2-4:1	SEQ5668	1.E-04	1.7
msAD	FAM13A-AS1:1	SEQ3762	2.E-02	0.8	FTD	lnc-NETO2-3:1	SEQ5273	8.E-05	0.6
DLB	FAM13A-AS1:5	SEQ5865	4.E-05	3.2	All AD	lnc-NETO2-3:1	SEQ5273	4.E-02	0.8
MCI	FAM157C:3	SEQ5767	4.E-07	0.1	DLB	lnc-NEURL4-1:3	SEQ4617	1.E-03	1.4
FTD	FAM157C:3	SEQ5767	7.E-05	0.1	DLB	lnc-NEURL4-1:4	SEQ3028	1.E-04	1.6
DLB	FAM182A:4	SEQ4636	1.E-03	1.5	MCI	lnc-NEURL4-1:4	SEQ3028	2.E-04	1.6
miAD	FAM198B-AS1:7	SEQ3768	1.E-02	0.7	MCI	lnc-NFAM1-4:1	SEQ5147	1.E-04	2.0
All AD	FAM198B-AS1:7	SEQ3768	2.E-02	0.8	DLB	lnc-NFAM1-4:1	SEQ5147	6.E-04	2.0
DLB	FAM215B:1	SEQ4971	8.E-04	1.6	All AD	lnc-NFAM1-4:1	SEQ5147	3.E-02	1.2
MCI	FAM239A:9	SEQ3770	2.E-04	2.1	DLB	lnc-NGFR-1:1	SEQ3671	1.E-03	1.3
DLB	FAM239A:9	SEQ3770	2.E-03	1.8	All AD	lnc-NGFR-1:1	SEQ3671	2.E-02	1.2
All AD	FAM239A:9	SEQ3770	3.E-02	1.3	msAD	lnc-NGFR-1:1	SEQ3671	5.E-02	1.1
msAD	FAM30A:2	SEQ3772	1.E-02	1.6	All AD	lnc-NHS-2:1	SEQ2339	2.E-02	0.8
All AD	FAM30A:2	SEQ3772	2.E-02	1.5	FTD	lnc-NID1-4:4	SEQ4463	3.E-10	0.3
DLB	FAM53B-AS1:1	SEQ5494	2.E-04	1.8	MCI	lnc-NID1-4:4	SEQ4463	4.E-07	0.4
miAD	FAM99A:4	SEQ3775	7.E-03	0.6	miAD	lnc-NID1-4:4	SEQ4463	4.E-05	0.5
All AD	FAM99A:4	SEQ3775	2.E-02	0.7	All AD	lnc-NID1-4:4	SEQ4463	1.E-04	0.5
miAD	FAM99B:7	SEQ3777	1.E-02	0.7	DLB	lnc-NID1-4:4	SEQ4463	2.E-03	0.4
All AD	FAM99B:7	SEQ3777	3.E-02	0.7	msAD	lnc-NID1-4:4	SEQ4463	2.E-03	0.6
FTD	FGD5-AS1:11	SEQ3778	3.E-07	3.1	FTD	lnc-NIF3L1-3:1	SEQ5283	4.E-04	0.6
MCI	FGD5-AS1:11	SEQ3778	9.E-06	3.3	All AD	lnc-NIF3L1-3:1	SEQ5283	3.E-02	0.8
DLB	FGD5-AS1:11	SEQ3778	1.E-04	2.5	miAD	lnc-NIN-1:1	SEQ4149	1.E-02	0.6
msAD	FGD5-AS1:11	SEQ3778	1.E-02	1.4	All AD	lnc-NIN-1:1	SEQ4149	1.E-02	0.7
All AD	FGD5-AS1:11	SEQ3778	2.E-02	1.4	FTD	lnc-NINJ2-3:1	SEQ6000	3.E-07	0.4
DLB	FGD5-AS1:28	SEQ3782	5.E-04	2.4	FTD	lnc-NIPBL-3:1	SEQ5604	2.E-04	0.6
All AD	FGD5-AS1:28	SEQ3782	8.E-03	1.6	msAD	lnc-NKAP-4:2	SEQ4178	1.E-02	2.0
msAD	FGD5-AS1:28	SEQ3782	2.E-02	1.7	All AD	lnc-NKX2-4-6:3	SEQ4164	3.E-03	1.3
FTD	FGD5-AS1:30	SEQ3785	1.E-07	3.1	msAD	lnc-NKX2-4-6:3	SEQ4164	4.E-03	1.3
MCI	FGD5-AS1:30	SEQ3785	2.E-05	2.9	miAD	lnc-NKX2-4-6:3	SEQ4164	1.E-02	1.3
DLB	FGD5-AS1:30	SEQ3785	3.E-04	2.3	DLB	lnc-NKX6-3-1:1	SEQ5030	9.E-05	1.7
All AD	FGD5-AS1:30	SEQ3785	8.E-03	1.4	MCI	lnc-NKX6-3-1:1	SEQ5030	7.E-04	1.5
msAD	FGD5-AS1:30	SEQ3785	8.E-03	1.4	All AD	lnc-NKX6-3-1:1	SEQ5030	3.E-02	1.1
MCI	FGD5-AS1:6	SEQ4466	3.E-06	0.2	FTD	lnc-NLN-2:1	SEQ5286	4.E-06	0.5
FTD	FGD5-AS1:6	SEQ4466	9.E-04	0.2	All AD	lnc-NLN-2:1	SEQ5286	2.E-02	0.7
DLB	FGD5-AS1:6	SEQ4466	2.E-03	0.3	FTD	lnc-NLRC4-3:3	SEQ3305	3.E-04	0.7
miAD	FGD5-AS1:7	SEQ3784	2.E-03	0.4	All AD	lnc-NLRC4-3:3	SEQ3305	9.E-03	0.8
All AD	FGD5-AS1:7	SEQ3784	4.E-03	0.4	miAD	lnc-NLRC4-3:3	SEQ3305	1.E-02	0.7

msAD	FGD5-AS1:7	SEQ3784	4.E-02	0.5	msAD	lnc-NLRC4-3:3	SEQ3305	3.E-02	0.8
DLB	FGD5-AS1:9	SEQ4423	2.E-03	1.5	MCI	lnc-NLRC4-4:1	SEQ5821	2.E-05	1.9
DLB	FLNB-AS1:1	SEQ3796	2.E-04	1.9	DLB	lnc-NLRC4-4:1	SEQ5821	5.E-05	1.9
MCI	FLNB-AS1:1	SEQ3796	1.E-03	1.7	DLB	lnc-NLRP12-1:12	SEQ5265	5.E-04	1.6
All AD	FLNB-AS1:1	SEQ3796	3.E-03	1.5	FTD	lnc-NMD3-1:1	SEQ2364	4.E-04	0.6
msAD	FLNB-AS1:1	SEQ3796	6.E-03	1.5	DLB	lnc-NME3-1:2	SEQ5256	5.E-04	1.5
miAD	FLNB-AS1:1	SEQ3796	8.E-03	1.5	DLB	lnc-NMT1-1:2	SEQ3980	2.E-04	1.6
DLB	FLNB-AS1:3	SEQ3800	2.E-05	2.4	MCI	lnc-NMT1-1:2	SEQ3980	1.E-03	1.4
MCI	FLNB-AS1:3	SEQ3800	1.E-04	2.0	All AD	lnc-NMT1-1:2	SEQ3980	2.E-02	1.2
All AD	FLNB-AS1:3	SEQ3800	4.E-04	1.5	msAD	lnc-NMT1-1:2	SEQ3980	2.E-02	1.2
msAD	FLNB-AS1:3	SEQ3800	1.E-03	1.5	FTD	lnc-NNT-3:5	SEQ4905	9.E-04	0.7
miAD	FLNB-AS1:3	SEQ3800	1.E-03	1.6	DLB	lnc-NOB1-1:1	SEQ2738	1.E-04	1.5
FTD	FOXP1-IT1:1	SEQ3805	1.E-05	0.6	All AD	lnc-NOB1-1:1	SEQ2738	3.E-02	1.1
miAD	FOXP1-IT1:1	SEQ3805	1.E-02	0.7	FTD	lnc-NOD1-1:1	SEQ5295	2.E-05	0.6
All AD	FOXP1-IT1:1	SEQ3805	3.E-02	0.7	All AD	lnc-NOD1-1:1	SEQ5295	4.E-02	0.7
FTD	FRY-AS1:6	SEQ5829	5.E-05	0.6	DLB	lnc-NOL6-7:1	SEQ5516	2.E-04	1.4
FTD	FTX:19	SEQ3811	3.E-09	0.1	DLB	lnc-NOP14-3:4	SEQ2834	4.E-04	1.6
MCI	FTX:19	SEQ3811	2.E-07	0.1	MCI	lnc-NOP16-2:6	SEQ4973	5.E-04	1.7
DLB	FTX:19	SEQ3811	7.E-06	0.1	DLB	lnc-NOP16-2:6	SEQ4973	8.E-04	1.7
All AD	FTX:19	SEQ3811	4.E-03	0.1	DLB	lnc-NOP9-1:2	SEQ2990	3.E-04	1.4
miAD	FTX:19	SEQ3811	5.E-03	0.1	DLB	lnc-NOS2-2:1	SEQ4307	1.E-03	1.7
msAD	FTX:19	SEQ3811	1.E-02	0.2	msAD	lnc-NOS2-2:1	SEQ4307	7.E-03	1.4
FTD	FTX:24	SEQ5089	6.E-04	0.7	All AD	lnc-NOS2-2:1	SEQ4307	3.E-02	1.3
FTD	FTX:28	SEQ4395	1.E-04	0.5	DLB	lnc-NPB-1:5	SEQ4837	8.E-04	1.4
MCI	FTX:28	SEQ4395	2.E-03	0.5	MCI	lnc-NPB-1:5	SEQ4837	9.E-04	1.4
All AD	FTX:37	SEQ3814	3.E-02	0.7	FTD	lnc-NPEPL1-3:1	SEQ5470	3.E-04	0.7
DLB	FTX:4	SEQ4793	1.E-03	2.1	MCI	lnc-NPIPA7-4:1	SEQ4441	2.E-03	1.6
DLB	FTX:44	SEQ4642	1.E-03	1.6	FTD	lnc-NPIPB12-2:2	SEQ5357	4.E-04	0.6
FTD	FTX:50	SEQ3819	3.E-08	0.3	FTD	lnc-NPIPB12-4:1	SEQ5858	4.E-05	0.7
MCI	FTX:50	SEQ3819	8.E-05	0.4	DLB	lnc-NPIPB3-1:1	SEQ4519	6.E-05	1.7
All AD	FTX:50	SEQ3819	3.E-02	0.6	MCI	lnc-NPIPB3-1:1	SEQ4519	2.E-03	1.5
DLB	FTX:52	SEQ5282	3.E-05	2.2	DLB	lnc-NPIPB3-2:1	SEQ4765	1.E-03	1.5
MCI	FTX:52	SEQ5282	5.E-04	1.9	All AD	lnc-NPL-2:1	SEQ5306	2.E-02	0.7
FTD	FTX:54	SEQ4798	1.E-03	0.4	FTD	lnc-NPL-2:2	SEQ3740	3.E-04	0.6
DLB	GABPB1-AS1:24	SEQ3823	7.E-06	3.8	All AD	lnc-NPL-2:2	SEQ3740	1.E-02	0.7
FTD	GABPB1-AS1:24	SEQ3823	1.E-03	1.9	msAD	lnc-NPL-2:2	SEQ3740	4.E-02	0.8
MCI	GABPB1-AS1:24	SEQ3823	1.E-03	2.4	FTD	lnc-NPM2-3:1	SEQ5780	7.E-05	0.6
miAD	GABPB1-AS1:24	SEQ3823	3.E-03	1.6	DLB	lnc-NPTX1-2:12	SEQ4521	2.E-03	1.6
All AD	GABPB1-AS1:24	SEQ3823	8.E-03	1.4	DLB	lnc-NPTX1-2:2	SEQ5131	6.E-04	1.6
FTD	GABPB1-IT1:2	SEQ3828	2.E-04	2.4	msAD	lnc-NPTX1-2:5	SEQ4251	9.E-03	0.6
All AD	GABPB1-IT1:2	SEQ3828	4.E-02	1.3	All AD	lnc-NPTX1-2:5	SEQ4251	2.E-02	0.6
miAD	GABPB1-IT1:5	SEQ2591	7.E-03	1.6	msAD	lnc-NPTX1-2:6	SEQ3742	4.E-02	0.8
All AD	GABPB1-IT1:5	SEQ2591	1.E-02	1.4	DLB	lnc-NPTX1-2:9	SEQ5130	6.E-04	1.6

msAD	GABPB1-IT1:5	SEQ2591	5.E-02	1.3	msAD	lnc-NR1D1-1:6	SEQ4228	1.E-02	0.7
DLB	GAS6-AS1:3	SEQ5908	2.E-05	2.3	All AD	lnc-NR1D1-1:6	SEQ4228	4.E-02	0.8
msAD	GFOD1-AS1:3	SEQ3957	3.E-02	1.5	FTD	lnc-NR1I2-3:1	SEQ5229	5.E-04	0.6
DLB	GHRLOS:9	SEQ5051	7.E-04	2.0	DLB	lnc-NR2C2-1:1	SEQ2751	8.E-04	1.3
miAD	GK-AS1:1	SEQ3749	7.E-03	0.6	DLB	lnc-NR2F6-5:1	SEQ3457	6.E-04	1.4
All AD	GK-AS1:1	SEQ3749	9.E-03	0.7	MCI	lnc-NR2F6-5:1	SEQ3457	2.E-03	1.4
msAD	GK-AS1:1	SEQ3749	4.E-02	0.7	FTD	lnc-NRBF2-2:1	SEQ4087	1.E-08	0.4
DLB	GLYCTK-AS1:7	SEQ5124	6.E-04	1.6	MCI	lnc-NRBF2-2:1	SEQ4087	5.E-04	0.6
DLB	GLYCTK-AS1:8	SEQ5015	7.E-04	1.4	miAD	lnc-NRBF2-2:1	SEQ4087	2.E-03	0.5
miAD	GSEC:2	SEQ3835	4.E-03	0.6	All AD	lnc-NRBF2-2:1	SEQ4087	2.E-03	0.6
All AD	GSEC:2	SEQ3835	3.E-02	0.7	msAD	lnc-NRBF2-2:1	SEQ4087	1.E-02	0.6
MCI	H1FX-AS1:15	SEQ3313	2.E-05	1.6	FTD	lnc-NRF1-2:1	SEQ5313	4.E-05	0.5
DLB	H1FX-AS1:15	SEQ3313	5.E-05	1.6	All AD	lnc-NRF1-2:1	SEQ5313	4.E-02	0.7
FTD	H1FX-AS1:15	SEQ3313	2.E-04	1.5	FTD	lnc-NT5C2-2:1	SEQ3787	1.E-04	0.6
All AD	H1FX-AS1:15	SEQ3313	3.E-03	1.3	miAD	lnc-NT5C2-2:1	SEQ3787	6.E-03	0.7
msAD	H1FX-AS1:15	SEQ3313	5.E-03	1.3	All AD	lnc-NT5C2-2:1	SEQ3787	8.E-03	0.7
miAD	H1FX-AS1:15	SEQ3313	8.E-03	1.3	msAD	lnc-NT5C2-2:1	SEQ3787	4.E-02	0.8
DLB	H1FX-AS1:16	SEQ3841	2.E-04	1.8	DLB	lnc-NT5M-1:3	SEQ5274	5.E-04	1.7
miAD	H1FX-AS1:16	SEQ3841	1.E-03	1.5	FTD	lnc-NTNG1-4:1	SEQ4301	1.E-05	0.6
All AD	H1FX-AS1:16	SEQ3841	1.E-03	1.4	miAD	lnc-NTNG1-4:1	SEQ4301	7.E-03	0.7
msAD	H1FX-AS1:16	SEQ3841	8.E-03	1.4	All AD	lnc-NTNG1-4:1	SEQ4301	1.E-02	0.8
DLB	HCG26:5	SEQ5696	1.E-04	1.6	DLB	lnc-NTNG2-2:1	SEQ5661	1.E-04	1.5
DLB	HCP5:1	SEQ5322	4.E-04	1.5	All AD	lnc-NUAK1-5:1	SEQ5317	4.E-02	0.9
DLB	HCP5:3	SEQ5476	2.E-04	1.3	FTD	lnc-NUCB2-1:1	SEQ4907	9.E-04	0.7
FTD	HCP5:4	SEQ5344	3.E-04	2.4	All AD	lnc-NUDT3-1:3	SEQ2725	3.E-02	1.2
MCI	HCP5:4	SEQ5344	4.E-04	2.2	FTD	lnc-NUDT4P1-1:11	SEQ5954	7.E-06	0.5
DLB	HCP5:7	SEQ5321	4.E-04	1.5	DLB	lnc-NUDT4P1-1:13	SEQ4757	1.E-03	1.5
FTD	HCP5:9	SEQ5345	3.E-04	2.4	DLB	lnc-NUDT4P1-1:2	SEQ4564	2.E-03	1.4
MCI	HCP5:9	SEQ5345	4.E-04	2.2	FTD	lnc-NUDT4P1-1:5	SEQ5899	2.E-05	0.6
FTD	HOTAIRM1:14	SEQ3852	2.E-04	0.7	FTD	lnc-NUDT4P1-9:1	SEQ4171	1.E-07	0.5
msAD	HOTAIRM1:14	SEQ3852	9.E-03	0.7	MCI	lnc-NUDT4P1-9:1	SEQ4171	4.E-05	0.6
All AD	HOTAIRM1:14	SEQ3852	1.E-02	0.6	All AD	lnc-NUDT4P1-9:1	SEQ4171	3.E-03	0.7
DLB	IL21R-AS1:1	SEQ4596	2.E-03	1.7	miAD	lnc-NUDT4P1-9:1	SEQ4171	4.E-03	0.6
DLB	IL21R-AS1:2	SEQ5206	5.E-04	1.7	msAD	lnc-NUDT4P1-9:1	SEQ4171	1.E-02	0.7
DLB	IL21R-AS1:3	SEQ4595	2.E-03	1.7	All AD	lnc-NUMB-1:11	SEQ5325	5.E-02	0.8
MCI	IRAIN:2	SEQ2863	1.E-03	1.6	All AD	lnc-NUMB-1:6	SEQ5326	4.E-02	0.8
MCI	IRAIN:3	SEQ2864	1.E-03	1.6	All AD	lnc-NUMB-2:1	SEQ5327	2.E-02	0.8
DLB	ITFG2-AS1:3	SEQ5620	2.E-04	1.6	DLB	lnc-NUP188-1:1	SEQ4556	2.E-03	1.3
DLB	ITPKB-IT1:1	SEQ4587	2.E-03	1.6	All AD	lnc-NUS1-5:1	SEQ3614	2.E-02	1.2
FTD	JMJD1C-AS1:6	SEQ5643	1.E-04	0.6	DLB	lnc-NXNL1-7:2	SEQ4402	2.E-03	1.3
FTD	JPX:13	SEQ4473	3.E-07	0.5	FTD	lnc-NXPH2-1:1	SEQ4903	9.E-04	0.6
MCI	JPX:13	SEQ4473	2.E-03	0.7	All AD	lnc-NXPH2-1:1	SEQ4903	2.E-02	0.8
FTD	JPX:20	SEQ5292	4.E-04	0.6	FTD	lnc-NXPH2-3:10	SEQ4666	7.E-05	0.3

FTD	JPX:22	SEQ5885	3.E-05	0.5	MCI	lnc-NXPH2-3:10	SEQ4666	9.E-05	0.3
FTD	KCNJ2-AS1:3	SEQ3865	5.E-04	0.6	DLB	lnc-NXPH2-3:10	SEQ4666	1.E-03	0.3
miAD	KCNJ2-AS1:3	SEQ3865	2.E-03	0.6	miAD	lnc-NXPH2-3:5	SEQ3634	1.E-02	0.6
All AD	KCNJ2-AS1:3	SEQ3865	7.E-03	0.6	All AD	lnc-NXPH2-3:5	SEQ3634	1.E-02	0.7
DLB	KCNQ1OT1:1	SEQ4434	2.E-03	1.5	msAD	lnc-NXPH2-3:5	SEQ3634	5.E-02	0.8
FTD	KCNQ1OT1:2	SEQ5774	7.E-05	0.5	MCI	lnc-OBSCN-AS1-2:1	SEQ5039	7.E-04	1.6
DLB	KCNQ1OT1:3	SEQ4433	2.E-03	1.5	DLB	lnc-OCM-3:4	SEQ5076	2.E-08	3.3
FTD	KCNQ1OT1:5	SEQ5762	8.E-05	0.5	MCI	lnc-OCM-3:4	SEQ5076	4.E-08	3.1
FTD	KCNQ1OT1:8	SEQ0139	2.E-04	0.6	msAD	lnc-OCM-3:4	SEQ5076	6.E-05	1.7
DLB	KDM4A-AS1:5	SEQ4616	1.E-03	1.4	All AD	lnc-OCM-3:4	SEQ5076	7.E-05	1.7
DLB	KIF9-AS1:9	SEQ4492	2.E-03	1.4	miAD	lnc-OCM-3:4	SEQ5076	7.E-04	1.7
DLB	LAMTOR5-AS1:1	SEQ5672	1.E-04	1.7	FTD	lnc-ODF1-9:1	SEQ0824	2.E-06	0.6
DLB	LCMT1-AS2:4	SEQ4657	1.E-03	1.9	DLB	lnc-OGDH-2:3	SEQ4682	1.E-03	1.4
MCI	LEF1-AS1:1	SEQ3877	1.E-03	1.9	DLB	lnc-OIP5-1:1	SEQ5863	4.E-05	1.9
DLB	LEF1-AS1:1	SEQ3877	2.E-03	1.9	FTD	lnc-OIT3-1:1	SEQ5230	5.E-04	0.6
miAD	LEF1-AS1:1	SEQ3877	3.E-03	1.6	msAD	lnc-OLIG1-3:2	SEQ4101	1.E-02	1.6
All AD	LEF1-AS1:1	SEQ3877	4.E-03	1.5	DLB	lnc-OPLAH-1:1	SEQ5811	5.E-05	1.4
msAD	LEF1-AS1:1	SEQ3877	2.E-02	1.4	miAD	lnc-OR10V1-1:1	SEQ4329	6.E-03	0.8
MCI	LEF1-AS1:2	SEQ3882	3.E-04	2.3	All AD	lnc-OR10V1-1:1	SEQ4329	3.E-02	0.8
DLB	LEF1-AS1:2	SEQ3882	4.E-04	2.3	DLB	lnc-OR1A2-1:1	SEQ3560	1.E-03	1.4
miAD	LEF1-AS1:2	SEQ3882	2.E-03	1.7	msAD	lnc-OR1J1-2:1	SEQ3840	3.E-02	1.3
All AD	LEF1-AS1:2	SEQ3882	3.E-03	1.6	DLB	lnc-OR4F15-4:5	SEQ2780	4.E-07	1.7
msAD	LEF1-AS1:2	SEQ3882	2.E-02	1.5	MCI	lnc-OR4F15-4:5	SEQ2780	3.E-05	1.3
All AD	LEF1-AS1:24	SEQ3886	4.E-02	1.3	FTD	lnc-OR4F15-4:5	SEQ2780	8.E-04	1.3
DLB	LIMD1-AS1:2	SEQ2885	2.E-03	1.5	msAD	lnc-OR4F15-4:5	SEQ2780	1.E-02	1.2
msAD	LINC00205:10	SEQ3689	5.E-02	1.3	All AD	lnc-OR4F15-4:5	SEQ2780	4.E-02	1.1
MCI	LINC00205:26	SEQ4533	6.E-04	1.9	All AD	lnc-OR4F16-15:5	SEQ5342	5.E-02	0.7
DLB	LINC00205:26	SEQ4533	2.E-03	1.9	FTD	lnc-OR4F17-5:1	SEQ5002	8.E-04	0.7
MCI	LINC00211:13	SEQ4965	8.E-04	1.6	miAD	lnc-OR4F17-8:1	SEQ4085	3.E-03	0.6
FTD	LINC00211:15	SEQ3890	3.E-04	0.4	All AD	lnc-OR4F17-8:1	SEQ4085	3.E-03	0.6
All AD	LINC00211:15	SEQ3890	6.E-03	0.5	msAD	lnc-OR4F17-8:1	SEQ4085	1.E-02	0.6
msAD	LINC00211:15	SEQ3890	7.E-03	0.4	All AD	lnc-OR4F29-1:10	SEQ5346	4.E-02	0.6
MCI	LINC00235:1	SEQ3731	5.E-04	2.1	DLB	lnc-OR4F29-11:1	SEQ4438	2.E-03	1.5
DLB	LINC00235:1	SEQ3731	9.E-04	2.3	DLB	lnc-OR4F29-11:5	SEQ5967	4.E-06	1.9
All AD	LINC00235:1	SEQ3731	2.E-02	1.4	DLB	lnc-OR4F29-11:6	SEQ5611	2.E-04	1.4
msAD	LINC00235:1	SEQ3731	4.E-02	1.4	miAD	lnc-OR4F29-3:11	SEQ0044	2.E-03	0.5
All AD	LINC00402:4	SEQ3893	2.E-02	1.3	All AD	lnc-OR4F29-3:11	SEQ0044	4.E-03	0.6
FTD	LINC00472:23	SEQ4670	5.E-04	0.7	msAD	lnc-OR4F29-3:11	SEQ0044	4.E-02	0.7
MCI	LINC00472:23	SEQ4670	1.E-03	0.8	miAD	lnc-OR4F29-3:7	SEQ4602	1.E-03	0.6
FTD	LINC00472:38	SEQ5930	1.E-05	0.6	All AD	lnc-OR4F29-3:7	SEQ4602	7.E-03	0.7
FTD	LINC00472:41	SEQ3848	3.E-11	0.1	All AD	lnc-OR4F29-8:3	SEQ3836	2.E-02	0.7
MCI	LINC00472:41	SEQ3848	2.E-08	0.2	msAD	lnc-OR4F29-8:3	SEQ3836	3.E-02	0.7
miAD	LINC00472:41	SEQ3848	3.E-05	0.3	DLB	lnc-OR4F29-8:30	SEQ5241	5.E-04	1.4

DLB	LINC00472:41	SEQ3848	9.E-05	0.2	FTD	lnc-OR4F29-8:48	SEQ5882	3.E-05	0.4
All AD	LINC00472:41	SEQ3848	7.E-04	0.3	All AD	lnc-OR4F3-5:4	SEQ5350	3.E-02	0.6
msAD	LINC00472:41	SEQ3848	3.E-02	0.3	msAD	lnc-OR4F4-4:3	SEQ3996	2.E-02	1.7
All AD	LINC00476:1	SEQ3719	2.E-02	1.3	miAD	lnc-OR4F5-2:1	SEQ4371	4.E-03	0.6
msAD	LINC00476:1	SEQ3719	4.E-02	1.3	All AD	lnc-OR4F5-2:1	SEQ4371	8.E-03	0.6
FTD	LINC00533:8	SEQ3864	5.E-04	0.5	DLB	lnc-OR4F6-1:1	SEQ4266	6.E-05	2.0
miAD	LINC00533:8	SEQ3864	6.E-03	0.5	msAD	lnc-OR4F6-1:1	SEQ4266	9.E-03	1.4
All AD	LINC00533:8	SEQ3864	7.E-03	0.6	All AD	lnc-OR4F6-1:1	SEQ4266	2.E-02	1.3
msAD	LINC00533:8	SEQ3864	3.E-02	0.6	msAD	lnc-OR52K2-1:1	SEQ4300	7.E-03	0.7
DLB	LINC00649:37	SEQ5639	2.E-04	2.1	All AD	lnc-OR52K2-1:1	SEQ4300	1.E-02	0.8
MCI	LINC00659:10	SEQ4726	1.E-03	2.2	DLB	lnc-OR6C65-3:1	SEQ5441	3.E-04	1.5
FTD	LINC00667:21	SEQ5085	6.E-04	0.6	DLB	lnc-OR7C2-1:2	SEQ5740	9.E-05	1.9
FTD	LINC00667:3	SEQ5304	4.E-04	1.9	MCI	lnc-OSBPL7-3:1	SEQ3569	5.E-05	1.6
DLB	LINC00677:6	SEQ4555	2.E-03	1.3	FTD	lnc-OSBPL7-3:1	SEQ3569	1.E-04	1.6
DLB	LINC00685:6	SEQ4963	3.E-04	1.8	DLB	lnc-OSBPL7-3:1	SEQ3569	2.E-03	1.5
MCI	LINC00685:6	SEQ4963	8.E-04	1.6	All AD	lnc-OSBPL7-3:2	SEQ2813	4.E-02	0.8
DLB	LINC00847:2	SEQ4857	9.E-04	1.5	FTD	lnc-OSBPL7-3:3	SEQ0534	2.E-05	0.7
miAD	LINC00847:3	SEQ3912	5.E-03	1.7	miAD	lnc-OSBPL7-3:3	SEQ0534	1.E-02	0.8
All AD	LINC00847:3	SEQ3912	3.E-02	1.4	All AD	lnc-OSBPL7-3:3	SEQ0534	2.E-02	0.8
FTD	LINC00861:6	SEQ3915	3.E-08	5.9	FTD	lnc-OSBPL7-3:4	SEQ0535	4.E-05	0.7
DLB	LINC00861:6	SEQ3915	6.E-08	6.6	FTD	lnc-OSBPL7-3:6	SEQ0536	4.E-05	0.7
MCI	LINC00861:6	SEQ3915	3.E-06	5.1	All AD	lnc-OSBPL7-3:6	SEQ0536	3.E-02	0.8
All AD	LINC00861:6	SEQ3915	1.E-04	1.8	msAD	lnc-OSMR-2:2	SEQ4340	5.E-03	0.6
miAD	LINC00861:6	SEQ3915	3.E-04	1.8	FTD	lnc-OTOA-1:2	SEQ3943	1.E-04	0.5
msAD	LINC00861:6	SEQ3915	1.E-03	1.8	All AD	lnc-OTOA-1:2	SEQ3943	6.E-03	0.6
MCI	LINC00869:68	SEQ3730	3.E-04	2.1	miAD	lnc-OTOA-1:2	SEQ3943	7.E-03	0.6
DLB	LINC00869:68	SEQ3730	8.E-04	1.9	msAD	lnc-OTOA-1:2	SEQ3943	3.E-02	0.7
miAD	LINC00869:68	SEQ3730	1.E-03	1.7	DLB	lnc-OTULIN-4:1	SEQ5694	1.E-04	1.5
All AD	LINC00869:68	SEQ3730	4.E-03	1.5	DLB	lnc-P4HTM-4:1	SEQ5334	4.E-04	1.7
msAD	LINC00869:68	SEQ3730	4.E-02	1.4	MCI	lnc-PABPC1L2B-3:1	SEQ4448	3.E-04	1.7
miAD	LINC00869:73	SEQ3922	3.E-03	0.5	DLB	lnc-PABPC1L2B-3:1	SEQ4448	2.E-03	1.6
All AD	LINC00869:73	SEQ3922	3.E-03	0.6	DLB	lnc-PABPN1L-1:1	SEQ2986	2.E-03	1.6
msAD	LINC00869:73	SEQ3922	2.E-02	0.6	MCI	lnc-PACSIN1-1:1	SEQ5452	1.E-04	1.6
All AD	LINC00877:15	SEQ3743	3.E-02	0.8	DLB	lnc-PACSIN1-1:1	SEQ5452	3.E-04	1.8
msAD	LINC00877:15	SEQ3743	4.E-02	0.8	DLB	lnc-PADI2-1:1	SEQ5936	1.E-05	1.8
FTD	LINC00894:50	SEQ3925	6.E-05	0.6	DLB	lnc-PAF1-3:1	SEQ5113	6.E-04	1.4
All AD	LINC00894:50	SEQ3925	4.E-02	0.7	MCI	lnc-PAGR1-2:8	SEQ5430	1.E-04	1.4
msAD	LINC00910:32	SEQ3926	2.E-02	1.3	DLB	lnc-PAGR1-2:8	SEQ5430	3.E-04	1.4
All AD	LINC00910:32	SEQ3926	4.E-02	1.2	FTD	lnc-PAIP2B-2:1	SEQ5874	3.E-05	0.6
msAD	LINC00926:2	SEQ3927	2.E-02	1.6	FTD	lnc-PALLD-8:1	SEQ2633	2.E-05	0.6
All AD	LINC00926:2	SEQ3927	4.E-02	1.5	DLB	lnc-PANK3-13:1	SEQ2629	5.E-04	1.5
miAD	LINC00937:21	SEQ3930	1.E-02	0.6	FTD	lnc-PANK3-13:2	SEQ2618	7.E-05	0.6
All AD	LINC00937:21	SEQ3930	2.E-02	0.7	DLB	lnc-PANO1-1:1	SEQ5485	2.E-04	1.5

msAD	LINC00938:7	SEQ3931	2.E-02	1.4	MCI	lnc-PAPD5-2:1	SEQ5851	4.E-05	1.8
All AD	LINC00938:7	SEQ3931	3.E-02	1.2	DLB	lnc-PAPD5-2:1	SEQ5851	4.E-05	1.9
DLB	LINC00957:7	SEQ5252	4.E-05	1.7	FTD	lnc-PAPLN-2:1	SEQ5163	5.E-04	0.8
MCI	LINC00957:7	SEQ5252	5.E-04	1.5	FTD	lnc-PAPPA2-2:1	SEQ4328	2.E-05	0.6
MCI	LINC00963:12	SEQ5349	2.E-04	0.5	miAD	lnc-PAPPA2-2:1	SEQ4328	6.E-03	0.7
FTD	LINC00963:12	SEQ5349	4.E-04	0.5	All AD	lnc-PAPPA2-2:1	SEQ4328	1.E-02	0.8
DLB	LINC00963:7	SEQ4528	2.E-03	1.7	FTD	lnc-PAPPA2-6:1	SEQ4247	5.E-04	0.7
MCI	LINC00989:1	SEQ3938	6.E-04	1.6	miAD	lnc-PAPPA2-6:1	SEQ4247	9.E-03	0.7
msAD	LINC00989:1	SEQ3938	4.E-03	1.4	All AD	lnc-PAPPA2-6:1	SEQ4247	1.E-02	0.8
All AD	LINC00989:1	SEQ3938	5.E-03	1.3	FTD	lnc-PAPPA2-7:1	SEQ0165	2.E-04	0.6
DLB	LINC01000:7	SEQ2877	2.E-04	1.5	All AD	lnc-PAPPA2-7:1	SEQ0165	2.E-03	0.7
MCI	LINC01002:1	SEQ5287	3.E-04	0.6	miAD	lnc-PAPPA2-7:1	SEQ0165	2.E-03	0.7
FTD	LINC01002:1	SEQ5287	4.E-04	0.5	msAD	lnc-PAPPA2-7:1	SEQ0165	8.E-03	0.7
miAD	LINC01002:27	SEQ3945	2.E-03	0.5	miAD	lnc-PAPSS2-10:1	SEQ4072	1.E-02	0.7
All AD	LINC01002:27	SEQ3945	1.E-02	0.6	All AD	lnc-PAPSS2-10:1	SEQ4072	3.E-02	0.8
miAD	LINC01002:9	SEQ3759	5.E-03	0.5	All AD	lnc-PATL2-9:1	SEQ3944	1.E-02	0.7
All AD	LINC01002:9	SEQ3759	7.E-03	0.6	msAD	lnc-PATL2-9:1	SEQ3944	3.E-02	0.7
msAD	LINC01002:9	SEQ3759	4.E-02	0.7	FTD	lnc-PAWR-14:1	SEQ4343	3.E-05	0.5
DLB	LINC01089:27	SEQ5862	2.E-05	1.9	miAD	lnc-PAWR-14:1	SEQ4343	5.E-03	0.6
MCI	LINC01089:27	SEQ5862	4.E-05	1.9	All AD	lnc-PAWR-14:1	SEQ4343	7.E-03	0.6
DLB	LINC01089:3	SEQ5705	5.E-05	1.9	All AD	lnc-PAXX-2:1	SEQ3639	4.E-02	0.8
MCI	LINC01089:3	SEQ5705	1.E-04	1.8	msAD	lnc-PAXX-2:1	SEQ3639	5.E-02	0.9
DLB	LINC01128:4	SEQ3953	1.E-04	1.9	miAD	lnc-PCBP1-2:1	SEQ3999	2.E-03	0.6
MCI	LINC01128:4	SEQ3953	3.E-04	1.7	All AD	lnc-PCBP1-2:1	SEQ3999	3.E-03	0.6
All AD	LINC01128:4	SEQ3953	6.E-03	1.3	msAD	lnc-PCBP1-2:1	SEQ3999	2.E-02	0.6
miAD	LINC01128:4	SEQ3953	6.E-03	1.3	FTD	lnc-PCDHGA1-1:3	SEQ5923	1.E-05	0.6
msAD	LINC01128:4	SEQ3953	2.E-02	1.3	FTD	lnc-PCDHGA1-1:4	SEQ5922	1.E-05	0.6
All AD	LINC01136:8	SEQ3958	2.E-03	0.5	FTD	lnc-PCDHGA1-3:2	SEQ4819	4.E-07	0.4
miAD	LINC01136:8	SEQ3958	2.E-03	0.5	MCI	lnc-PCDHGA1-3:2	SEQ4819	4.E-04	0.5
msAD	LINC01136:8	SEQ3958	8.E-03	0.5	miAD	lnc-PCDHGA1-3:2	SEQ4819	1.E-03	0.5
DLB	LINC01138:20	SEQ3672	6.E-04	1.7	DLB	lnc-PCGF2-3:1	SEQ5700	1.E-04	1.6
msAD	LINC01138:20	SEQ3672	5.E-02	1.2	DLB	lnc-PCGF2-4:1	SEQ3602	4.E-05	1.5
msAD	LINC01138:23	SEQ3889	3.E-02	0.8	FTD	lnc-PCNX4-3:1	SEQ4285	1.E-08	0.5
All AD	LINC01138:23	SEQ3889	3.E-02	0.8	MCI	lnc-PCNX4-3:1	SEQ4285	8.E-05	0.5
FTD	LINC01154:11	SEQ5747	9.E-05	0.7	miAD	lnc-PCNX4-3:1	SEQ4285	7.E-03	0.7
MCI	LINC01215:3	SEQ3963	2.E-04	2.5	All AD	lnc-PCNX4-3:1	SEQ4285	1.E-02	0.7
msAD	LINC01215:3	SEQ3963	1.E-02	1.5	FTD	lnc-PCP4L1-3:2	SEQ4902	9.E-04	0.6
All AD	LINC01215:3	SEQ3963	4.E-02	1.3	DLB	lnc-PCSK7-1:4	SEQ5619	2.E-04	1.6
DLB	LINC01224:32	SEQ5454	3.E-04	1.8	FTD	lnc-PCYOX1-4:1	SEQ5998	2.E-07	0.3
DLB	LINC01224:33	SEQ4653	2.E-04	2.1	MCI	lnc-PCYOX1-4:1	SEQ5998	4.E-07	0.4
MCI	LINC01224:33	SEQ4653	1.E-03	1.8	FTD	lnc-PDCD4-6:1	SEQ5384	2.E-05	0.6
DLB	LINC01224:56	SEQ5278	5.E-04	1.8	All AD	lnc-PDCD4-6:1	SEQ5384	5.E-02	0.8
DLB	LINC01311:5	SEQ3967	6.E-04	1.5	FTD	lnc-PDCL2-4:1	SEQ5475	2.E-07	0.6

MCI	LINC01311:5	SEQ3967	1.E-03	1.5	MCI	lnc-PDCL2-4:1	SEQ5475	2.E-04	0.7
All AD	LINC01311:5	SEQ3967	4.E-02	1.2	msAD	lnc-PDE6D-3:1	SEQ3793	4.E-02	1.3
FTD	LINC01355:1	SEQ5509	2.E-04	0.6	MCI	lnc-PDGFA-6:2	SEQ5057	4.E-08	6.3
miAD	LINC01359:11	SEQ3826	1.E-03	0.6	FTD	lnc-PDGFA-6:2	SEQ5057	7.E-06	3.3
All AD	LINC01359:11	SEQ3826	4.E-03	0.6	DLB	lnc-PDGFA-6:2	SEQ5057	7.E-04	3.1
msAD	LINC01359:11	SEQ3826	4.E-02	0.7	All AD	lnc-PDGFA-6:5	SEQ5389	4.E-02	0.6
FTD	LINC01410:15	SEQ5978	5.E-07	0.2	miAD	lnc-PDGFA-6:6	SEQ4378	3.E-03	0.7
MCI	LINC01410:15	SEQ5978	3.E-06	0.2	All AD	lnc-PDGFA-6:6	SEQ4378	1.E-02	0.7
FTD	LINC01410:17	SEQ3799	9.E-05	0.5	DLB	lnc-PDGFB-2:1	SEQ2826	5.E-04	1.6
All AD	LINC01410:17	SEQ3799	1.E-02	0.6	FTD	lnc-PDK3-1:1	SEQ2348	7.E-04	0.7
msAD	LINC01410:17	SEQ3799	4.E-02	0.7	All AD	lnc-PDK3-1:1	SEQ2348	3.E-02	0.8
DLB	LINC01465:1	SEQ4432	1.E-04	1.8	FTD	lnc-PDS5B-2:1	SEQ5392	5.E-06	0.6
FTD	LINC01465:1	SEQ4432	6.E-04	1.6	All AD	lnc-PDS5B-2:1	SEQ5392	3.E-02	0.8
MCI	LINC01465:1	SEQ4432	2.E-03	1.5	FTD	lnc-PDSS1-4:1	SEQ5363	1.E-08	0.5
FTD	LINC01481:13	SEQ5902	1.E-08	0.1	MCI	lnc-PDSS1-4:1	SEQ5363	2.E-06	0.5
MCI	LINC01481:13	SEQ5902	2.E-05	0.1	miAD	lnc-PDSS1-4:1	SEQ5363	4.E-04	0.7
FTD	LINC01481:8	SEQ0478	4.E-06	0.5	All AD	lnc-PDSS1-4:1	SEQ5363	4.E-03	0.7
All AD	LINC01550:1	SEQ3981	4.E-02	1.3	FTD	lnc-PDSS1-6:1	SEQ4152	2.E-07	0.5
MCI	LINC01550:11	SEQ5742	9.E-05	3.5	miAD	lnc-PDSS1-6:1	SEQ4152	1.E-02	0.7
FTD	LINC01578:13	SEQ3985	6.E-09	0.4	FTD	lnc-PDSS1-7:1	SEQ3851	2.E-04	0.6
MCI	LINC01578:13	SEQ3985	4.E-05	0.4	miAD	lnc-PDSS1-7:1	SEQ3851	7.E-03	0.7
miAD	LINC01578:13	SEQ3985	8.E-04	0.6	All AD	lnc-PDSS1-7:1	SEQ3851	8.E-03	0.7
DLB	LINC01578:13	SEQ3985	1.E-03	0.6	msAD	lnc-PDSS1-7:1	SEQ3851	3.E-02	0.7
All AD	LINC01578:13	SEQ3985	8.E-03	0.6	FTD	lnc-PDSS1-9:1	SEQ3667	4.E-05	0.7
FTD	LINC01578:2	SEQ3987	2.E-04	0.6	All AD	lnc-PDSS1-9:1	SEQ3667	2.E-02	0.8
All AD	LINC01578:2	SEQ3987	3.E-02	0.7	msAD	lnc-PDSS1-9:1	SEQ3667	5.E-02	0.8
DLB	LINC01623:9	SEQ5725	9.E-05	1.4	FTD	lnc-PDYN-1:13	SEQ4327	6.E-04	0.6
DLB	LINC01678:2	SEQ5580	2.E-04	1.9	miAD	lnc-PDYN-1:13	SEQ4327	6.E-03	0.6
DLB	LINC01715:4	SEQ3256	1.E-05	0.4	All AD	lnc-PDYN-1:13	SEQ4327	2.E-02	0.7
MCI	LINC01715:4	SEQ3256	5.E-04	0.3	miAD	lnc-PDYN-1:16	SEQ4111	1.E-02	0.7
DLB	LINC01762:6	SEQ5671	1.E-04	1.7	All AD	lnc-PDYN-1:16	SEQ4111	3.E-02	0.7
DLB	LINC01762:7	SEQ5670	1.E-04	1.7	All AD	lnc-PDYN-1:9	SEQ3089	5.E-02	0.7
FTD	LINC01814:4	SEQ3869	9.E-04	0.7	DLB	lnc-PDZD2-1:1	SEQ3861	8.E-05	1.5
miAD	LINC01814:4	SEQ3869	2.E-03	0.6	All AD	lnc-PDZD2-1:1	SEQ3861	2.E-02	1.2
All AD	LINC01814:4	SEQ3869	4.E-03	0.7	msAD	lnc-PDZD2-1:1	SEQ3861	3.E-02	1.2
msAD	LINC01814:4	SEQ3869	3.E-02	0.8	DLB	lnc-PEA15-1:2	SEQ4931	8.E-04	1.4
MCI	LINC01891:2	SEQ4455	2.E-03	1.8	DLB	lnc-PEBP4-1:3	SEQ4055	2.E-04	1.4
All AD	LINC02035:2	SEQ3993	6.E-03	0.8	msAD	lnc-PEBP4-1:3	SEQ4055	2.E-02	1.2
miAD	LINC02035:2	SEQ3993	1.E-02	0.8	MCI	lnc-PELP1-2:1	SEQ5134	6.E-04	1.7
msAD	LINC02035:2	SEQ3993	2.E-02	0.8	DLB	lnc-PER2-5:1	SEQ5695	1.E-04	1.6
msAD	LINC02035:4	SEQ3780	4.E-02	1.3	DLB	lnc-PEX11G-3:1	SEQ5315	9.E-06	1.6
FTD	LINC02062:11	SEQ5912	2.E-05	0.5	FTD	lnc-PEX11G-3:1	SEQ5315	3.E-04	1.4
FTD	LINC02062:12	SEQ3998	8.E-05	0.6	MCI	lnc-PEX11G-3:1	SEQ5315	4.E-04	1.5

miAD	LINC02062:12	SEQ3998	9.E-03	0.7	DLB	lnc-PEX11G-4:3	SEQ5281	2.E-05	2.0
All AD	LINC02062:12	SEQ3998	2.E-02	0.7	MCI	lnc-PEX11G-4:3	SEQ5281	5.E-04	1.9
miAD	LINC02068:5	SEQ4145	1.E-02	0.6	DLB	lnc-PEX6-1:1	SEQ2942	6.E-05	1.6
All AD	LINC02100:2	SEQ4000	3.E-02	0.7	FTD	lnc-PEX6-3:1	SEQ5896	2.E-06	1.7
FTD	LINC02100:8	SEQ5150	5.E-04	0.6	DLB	lnc-PEX6-3:1	SEQ5896	4.E-06	1.8
MCI	LINC02288:2	SEQ5435	3.E-04	1.5	MCI	lnc-PEX6-3:1	SEQ5896	2.E-05	1.8
MCI	LINC02288:4	SEQ4002	2.E-05	2.1	All AD	lnc-PEX7-1:4	SEQ5402	3.E-02	0.8
FTD	LINC02288:4	SEQ4002	2.E-04	1.7	FTD	lnc-PEX7-1:7	SEQ5606	2.E-04	0.7
DLB	LINC02288:4	SEQ4002	5.E-04	1.8	All AD	lnc-PEX7-4:1	SEQ3855	1.E-02	0.8
All AD	LINC02288:4	SEQ4002	2.E-02	1.2	msAD	lnc-PEX7-4:1	SEQ3855	3.E-02	0.8
FTD	LINC02328:9	SEQ4007	3.E-05	0.5	FTD	lnc-PFDN4-11:2	SEQ5086	6.E-04	0.6
All AD	LINC02328:9	SEQ4007	1.E-02	0.7	All AD	lnc-PFDN4-11:2	SEQ5086	2.E-02	0.7
msAD	LINC02328:9	SEQ4007	1.E-02	0.7	MCI	lnc-PFDN6-2:3	SEQ3468	1.E-07	2.5
MCI	LINC02361:3	SEQ4009	2.E-04	1.7	FTD	lnc-PFDN6-2:3	SEQ3468	2.E-07	2.0
All AD	LINC02361:3	SEQ4009	3.E-02	1.2	DLB	lnc-PFDN6-2:3	SEQ3468	4.E-06	2.4
miAD	LINC02362:13	SEQ4012	1.E-02	0.6	miAD	lnc-PFDN6-2:3	SEQ3468	1.E-03	1.3
All AD	LINC02362:13	SEQ4012	2.E-02	0.7	All AD	lnc-PFDN6-2:3	SEQ3468	5.E-03	1.2
miAD	LINC02362:14	SEQ4014	1.E-02	0.6	All AD	lnc-PFKFB3-3:5	SEQ5408	5.E-02	0.7
All AD	LINC02362:14	SEQ4014	2.E-02	0.7	DLB	lnc-PGAM2-1:1	SEQ2909	6.E-04	1.5
FTD	LINC02362:17	SEQ4825	6.E-06	0.4	FTD	lnc-PGAP1-2:1	SEQ4147	1.E-09	0.4
MCI	LINC02362:17	SEQ4825	3.E-04	0.5	MCI	lnc-PGAP1-2:1	SEQ4147	4.E-05	0.5
DLB	LINC02362:17	SEQ4825	9.E-04	0.5	miAD	lnc-PGAP1-2:1	SEQ4147	1.E-02	0.6
miAD	LINC02363:2	SEQ4017	1.E-02	0.7	All AD	lnc-PGAP1-2:1	SEQ4147	2.E-02	0.7
All AD	LINC02363:2	SEQ4017	3.E-02	0.8	DLB	lnc-PGBD5-1:1	SEQ2755	4.E-04	1.5
miAD	LINC02363:6	SEQ4019	7.E-03	0.6	FTD	lnc-PGGT1B-1:1	SEQ5999	3.E-07	0.2
All AD	LINC02363:6	SEQ4019	3.E-02	0.7	FTD	lnc-PGM1-1:1	SEQ5646	1.E-04	0.6
All AD	LINC02384:5	SEQ4020	3.E-02	0.6	DLB	lnc-PHB2-2:1	SEQ4561	2.E-03	1.4
All AD	LINC02397:10	SEQ3328	3.E-02	1.5	All AD	lnc-PHB2-4:3	SEQ5414	3.E-02	1.3
msAD	LINC02397:10	SEQ3328	4.E-02	1.5	FTD	lnc-PHF20L1-6:1	SEQ4316	1.E-08	0.4
msAD	LINC02397:15	SEQ3901	3.E-02	1.5	MCI	lnc-PHF20L1-6:1	SEQ4316	6.E-05	0.5
All AD	LINC02397:15	SEQ3901	4.E-02	1.4	miAD	lnc-PHF20L1-6:1	SEQ4316	6.E-03	0.6
FTD	LINC02422:5	SEQ4022	6.E-05	0.7	All AD	lnc-PHF20L1-6:1	SEQ4316	1.E-02	0.6
All AD	LINC02422:5	SEQ4022	5.E-02	0.8	FTD	lnc-PHLDA1-1:2	SEQ5221	5.E-04	0.4
miAD	LINC02471:3	SEQ3866	2.E-03	0.6	DLB	lnc-PHYHD1-1:1	SEQ3086	8.E-05	1.7
All AD	LINC02471:3	SEQ3866	4.E-03	0.6	All AD	lnc-PIGBOS1-2:1	SEQ5417	3.E-02	0.8
msAD	LINC02471:3	SEQ3866	3.E-02	0.7	All AD	lnc-PIGBOS1-3:1	SEQ5418	4.E-02	0.8
MCI	LINC02482:12	SEQ3880	6.E-05	2.0	FTD	lnc-PIGBOS1-4:1	SEQ5062	7.E-04	0.6
All AD	LINC02482:12	SEQ3880	1.E-02	1.3	FTD	lnc-PIGBOS1-5:1	SEQ5546	2.E-04	0.6
msAD	LINC02482:12	SEQ3880	3.E-02	1.4	msAD	lnc-PIGN-7:3	SEQ4342	5.E-03	0.6
FTD	LINC-PINT:10	SEQ4029	4.E-04	0.7	All AD	lnc-PIGN-7:3	SEQ4342	8.E-03	0.6
miAD	LINC-PINT:10	SEQ4029	1.E-02	0.8	FTD	lnc-PIK3AP1-2:1	SEQ5136	5.E-04	1.6
All AD	LINC-PINT:10	SEQ4029	3.E-02	0.8	MCI	lnc-PIK3AP1-2:1	SEQ5136	6.E-04	1.7
DLB	LINC-PINT:11	SEQ5167	3.E-06	5.E-02	All AD	lnc-PIK3AP1-2:1	SEQ5136	4.E-02	1.2

FTD	LINC-PINT:11	SEQ5167	2.E-04	0.1	miAD	lnc-PIK3IP1-2:1	SEQ4299	7.E-03	0.7
MCI	LINC-PINT:11	SEQ5167	5.E-04	4.E-02	All AD	lnc-PIK3IP1-2:1	SEQ4299	1.E-02	0.7
FTD	LINC-PINT:16	SEQ2192	7.E-06	0.6	MCI	lnc-PILRB-1:5	SEQ3009	2.E-04	1.8
FTD	LINC-PINT:25	SEQ5971	4.E-08	0.2	DLB	lnc-PILRB-1:5	SEQ3009	3.E-04	1.7
MCI	LINC-PINT:25	SEQ5971	3.E-06	0.3	FTD	lnc-PINK1-2:1	SEQ2734	1.E-10	0.3
All AD	LINC-PINT:33	SEQ4036	1.E-02	0.7	MCI	lnc-PINK1-2:1	SEQ2734	3.E-05	0.3
msAD	LINC-PINT:33	SEQ4036	1.E-02	0.7	DLB	lnc-PINK1-2:1	SEQ2734	1.E-03	0.4
MCI	LINC-PINT:36	SEQ5836	4.E-05	0.1	DLB	lnc-PKHD1-2:3	SEQ4646	1.E-03	1.6
FTD	LINC-PINT:39	SEQ4999	8.E-04	0.7	DLB	lnc-PKHD1-6:1	SEQ4967	8.E-04	1.6
DLB	LINC-PINT:4	SEQ5555	2.E-04	0.2	msAD	lnc-PKN2-5:1	SEQ4089	1.E-02	0.7
miAD	LINC-PINT:46	SEQ4040	2.E-03	1.4	FTD	lnc-PLA2G15-1:2	SEQ3907	1.E-04	2.4
All AD	LINC-PINT:46	SEQ4040	7.E-03	1.3	MCI	lnc-PLA2G15-1:2	SEQ3907	2.E-04	2.3
FTD	LINC-PINT:70	SEQ4033	3.E-07	0.2	DLB	lnc-PLA2G15-1:2	SEQ3907	2.E-03	2.1
MCI	LINC-PINT:70	SEQ4033	4.E-06	0.1	msAD	lnc-PLA2G15-1:2	SEQ3907	3.E-02	1.4
msAD	LINC-PINT:70	SEQ4033	2.E-02	0.3	All AD	lnc-PLA2G15-1:2	SEQ3907	5.E-02	1.3
All AD	LINC-PINT:70	SEQ4033	2.E-02	0.3	DLB	lnc-PLA2G15-2:2	SEQ3565	2.E-03	1.5
FTD	LINC-PINT:71	SEQ3665	7.E-06	0.6	DLB	lnc-PLA2G6-1:2	SEQ2971	2.E-04	1.6
All AD	LINC-PINT:71	SEQ3665	3.E-02	0.7	MCI	lnc-PLA2G6-1:2	SEQ2971	2.E-03	1.5
msAD	LINC-PINT:71	SEQ3665	5.E-02	0.8	All AD	lnc-PLAGL2-6:1	SEQ5429	5.E-02	0.8
FTD	LINC-PINT:77	SEQ4909	9.E-04	0.7	DLB	lnc-PLCB1-1:7	SEQ5490	7.E-07	1.8
DLB	LIPE-AS1:16	SEQ3727	6.E-05	2.0	MCI	lnc-PLCB1-1:7	SEQ5490	2.E-04	1.6
MCI	LIPE-AS1:16	SEQ3727	9.E-04	1.7	DLB	lnc-PLCD3-4:4	SEQ4841	9.E-04	1.4
All AD	LIPE-AS1:16	SEQ3727	3.E-02	1.2	FTD	lnc-PLCD3-4:7	SEQ5433	6.E-05	0.5
msAD	LIPE-AS1:16	SEQ3727	4.E-02	1.2	All AD	lnc-PLCD3-4:7	SEQ5433	4.E-02	0.6
All AD	LMNB1-DT:3	SEQ4051	5.E-03	1.3	FTD	lnc-PLCG1-2:1	SEQ5645	1.E-04	0.6
miAD	LMNB1-DT:3	SEQ4051	1.E-02	1.3	FTD	lnc-PLEKHB2-4:3	SEQ2327	1.E-05	0.6
msAD	LMNB1-DT:3	SEQ4051	1.E-02	1.3	MCI	lnc-PLEKHB2-4:3	SEQ2327	4.E-05	0.6
DLB	lnc-A1BG-1:8	SEQ4706	1.E-03	1.5	FTD	lnc-PLEKHD1-4:1	SEQ5353	4.E-04	0.6
FTD	lnc-ABCA5-7:1	SEQ0014	1.E-05	0.6	All AD	lnc-PLEKHD1-4:1	SEQ5353	4.E-02	0.7
All AD	lnc-ABCA5-7:1	SEQ0014	5.E-02	0.8	DLB	lnc-PLEKHH2-4:1	SEQ4483	2.E-03	1.3
DLB	lnc-ABCC5-3:1	SEQ3281	3.E-04	1.5	DLB	lnc-PLEKHH2-4:2	SEQ4482	2.E-03	1.3
FTD	lnc-ABCC5-3:4	SEQ3282	5.E-05	1.8	DLB	lnc-PLPP2-5:5	SEQ5632	2.E-04	1.8
MCI	lnc-ABCC5-3:4	SEQ3282	5.E-05	1.9	FTD	lnc-PLPPR5-4:1	SEQ5684	1.E-04	0.5
DLB	lnc-ABCC5-3:4	SEQ3282	2.E-03	1.7	FTD	lnc-PLSCR2-2:1	SEQ0964	2.E-05	0.5
All AD	lnc-ABCC5-3:4	SEQ3282	2.E-02	1.3	All AD	lnc-PLSCR2-2:1	SEQ0964	7.E-03	0.6
DLB	lnc-ABCC6-11:1	SEQ2717	2.E-03	1.4	miAD	lnc-PLSCR2-2:1	SEQ0964	8.E-03	0.6
MCI	lnc-ABCF2-2:1	SEQ5473	3.E-06	1.6	msAD	lnc-PLSCR2-2:1	SEQ0964	2.E-02	0.6
DLB	lnc-ABCF2-2:1	SEQ5473	2.E-05	1.6	FTD	lnc-PLXND1-1:1	SEQ5223	5.E-04	0.5
FTD	lnc-ABCF2-2:1	SEQ5473	3.E-04	1.4	FTD	lnc-PLXND1-3:1	SEQ5715	1.E-04	0.5
miAD	lnc-ABHD12B-2:1	SEQ4060	4.E-03	0.7	FTD	lnc-PLXND1-3:2	SEQ3703	3.E-10	0.3
All AD	lnc-ABHD12B-2:1	SEQ4060	8.E-03	0.7	MCI	lnc-PLXND1-3:2	SEQ3703	4.E-05	0.5
msAD	lnc-ABTB1-2:1	SEQ3881	3.E-02	1.4	All AD	lnc-PLXND1-3:2	SEQ3703	2.E-02	0.5
All AD	lnc-ABTB1-2:1	SEQ3881	5.E-02	1.3	msAD	lnc-PLXND1-3:2	SEQ3703	5.E-02	0.6

MCI	lnc-ABTB2-4:1	SEQ4062	6.E-06	1.6	DLB	lnc-PMM2-2:1	SEQ3482	6.E-04	1.5
DLB	lnc-ABTB2-4:1	SEQ4062	2.E-05	1.6	DLB	lnc-PMM2-6:1	SEQ4792	1.E-03	2.0
FTD	lnc-ABTB2-4:1	SEQ4062	1.E-04	1.4	FTD	lnc-PMM2-6:3	SEQ5443	2.E-09	0.2
All AD	lnc-ABTB2-4:1	SEQ4062	8.E-03	1.2	DLB	lnc-PMM2-6:3	SEQ5443	1.E-06	0.2
msAD	lnc-ABTB2-4:1	SEQ4062	1.E-02	1.2	MCI	lnc-PMM2-6:3	SEQ5443	3.E-06	0.2
DLB	lnc-ACBD6-2:1	SEQ5444	3.E-04	1.6	All AD	lnc-PMM2-6:3	SEQ5443	4.E-02	0.4
msAD	lnc-ACO1-1:1	SEQ0590	9.E-03	0.7	FTD	lnc-PNMA2-1:1	SEQ5162	5.E-04	0.7
All AD	lnc-ACO1-1:1	SEQ0590	1.E-02	0.7	FTD	lnc-PNO1-1:1	SEQ4348	9.E-10	0.4
FTD	lnc-ACTA2-1:1	SEQ5550	2.E-04	0.6	MCI	lnc-PNO1-1:1	SEQ4348	5.E-05	0.5
DLB	lnc-ACTR2-11:1	SEQ3921	6.E-06	1.6	All AD	lnc-PNO1-1:1	SEQ4348	1.E-03	0.6
msAD	lnc-ACTR2-11:1	SEQ3921	3.E-02	1.1	miAD	lnc-PNO1-1:1	SEQ4348	3.E-03	0.6
All AD	lnc-ACTR2-11:1	SEQ3921	3.E-02	1.1	msAD	lnc-PNO1-1:1	SEQ4348	5.E-03	0.7
All AD	lnc-ACTR3-2:1	SEQ4067	5.E-02	0.8	miAD	lnc-PNOC-2:1	SEQ2817	9.E-03	1.3
miAD	lnc-ACTR6-4:1	SEQ4069	8.E-03	0.7	All AD	lnc-PNOC-2:1	SEQ2817	1.E-02	1.2
All AD	lnc-ACTR6-4:1	SEQ4069	1.E-02	0.7	FTD	lnc-POC5-4:2	SEQ5161	5.E-04	0.7
FTD	lnc-ACTRT3-2:5	SEQ3699	6.E-04	1.7	All AD	lnc-POLD3-2:1	SEQ5447	5.E-02	0.9
All AD	lnc-ACTRT3-2:5	SEQ3699	2.E-02	1.3	DLB	lnc-POLR2J2-2:1	SEQ5533	2.E-04	1.8
msAD	lnc-ACTRT3-2:5	SEQ3699	5.E-02	1.2	MCI	lnc-POLR2J2-2:1	SEQ5533	2.E-04	1.7
All AD	lnc-ACTRT3-5:1	SEQ2741	5.E-02	1.2	DLB	lnc-POLR3E-3:4	SEQ3547	1.E-03	1.5
All AD	lnc-ACY1-2:1	SEQ4071	2.E-02	1.2	DLB	lnc-POLR3GL-10:1	SEQ4515	2.E-03	1.5
FTD	lnc-ADAD1-3:1	SEQ0774	9.E-10	0.4	msAD	lnc-POLR3GL-6:4	SEQ3974	2.E-02	1.5
MCI	lnc-ADAD1-3:1	SEQ0774	3.E-06	0.4	DLB	lnc-POLR3K-1:7	SEQ4703	1.E-03	1.5
miAD	lnc-ADAD1-3:1	SEQ0774	2.E-04	0.5	DLB	lnc-POLR3K-1:9	SEQ4481	2.E-03	1.3
All AD	lnc-ADAD1-3:1	SEQ0774	3.E-04	0.6	All AD	lnc-POTEH-1:1	SEQ4048	1.E-02	1.2
msAD	lnc-ADAD1-3:1	SEQ0774	3.E-03	0.6	msAD	lnc-POTEH-1:1	SEQ4048	2.E-02	1.2
FTD	lnc-ADAM22-2:10	SEQ4076	6.E-05	0.5	FTD	lnc-POU5F2-5:1	SEQ5608	2.E-04	0.7
miAD	lnc-ADAM22-2:10	SEQ4076	1.E-03	0.6	DLB	lnc-PPARA-3:11	SEQ5621	2.E-04	1.6
All AD	lnc-ADAM22-2:10	SEQ4076	2.E-03	0.6	MCI	lnc-PPARA-3:8	SEQ2854	2.E-03	1.5
msAD	lnc-ADAM22-2:10	SEQ4076	1.E-02	0.6	DLB	lnc-PPARA-4:1	SEQ4739	1.E-03	1.4
FTD	lnc-ADAM22-2:13	SEQ4079	3.E-04	0.6	miAD	lnc-PPEF1-7:4	SEQ4078	1.E-02	0.8
miAD	lnc-ADAM22-2:13	SEQ4079	2.E-03	0.5	All AD	lnc-PPEF1-7:4	SEQ4078	3.E-02	0.8
All AD	lnc-ADAM22-2:13	SEQ4079	2.E-03	0.6	DLB	lnc-PPIAL4D-5:15	SEQ5493	2.E-04	1.6
msAD	lnc-ADAM22-2:13	SEQ4079	1.E-02	0.6	MCI	lnc-PPIAL4D-5:4	SEQ3660	7.E-04	2.6
miAD	lnc-ADAM30-1:1	SEQ2698	1.E-02	0.7	DLB	lnc-PPIAL4D-5:4	SEQ3660	1.E-03	2.1
All AD	lnc-ADAM30-1:1	SEQ2698	2.E-02	0.7	All AD	lnc-PPIAL4D-5:4	SEQ3660	4.E-02	1.5
DLB	lnc-ADAMTS12-2:6	SEQ4081	1.E-03	1.8	msAD	lnc-PPIAL4D-5:4	SEQ3660	5.E-02	1.5
MCI	lnc-ADAMTS12-2:6	SEQ4081	1.E-03	1.7	miAD	lnc-PPIAL4F-3:2	SEQ0828	5.E-03	0.6
All AD	lnc-ADAMTS12-2:6	SEQ4081	3.E-02	1.2	All AD	lnc-PPIAL4F-3:2	SEQ0828	5.E-03	0.5
miAD	lnc-ADAMTSL4-4:1	SEQ3903	6.E-03	0.6	msAD	lnc-PPIAL4F-3:2	SEQ0828	2.E-02	0.5
All AD	lnc-ADAMTSL4-4:1	SEQ3903	6.E-03	0.7	miAD	lnc-PPIAL4F-3:3	SEQ3932	5.E-03	0.6
msAD	lnc-ADAMTSL4-4:1	SEQ3903	3.E-02	0.7	All AD	lnc-PPIAL4F-3:3	SEQ3932	6.E-03	0.5
DLB	lnc-ADAMTSL4-7:2	SEQ4676	1.E-03	1.3	msAD	lnc-PPIAL4F-3:3	SEQ3932	3.E-02	0.5
miAD	lnc-ADAP2-1:1	SEQ4086	1.E-02	0.7	miAD	lnc-PPIAL4F-6:13	SEQ4192	1.E-02	0.8

All AD	lnc-ADAP2-1:1	SEQ4086	3.E-02	0.8	All AD	lnc-PPIAL4F-6:13	SEQ4192	3.E-02	0.8
msAD	lnc-ADGRL4-6:1	SEQ3810	4.E-02	0.6	msAD	lnc-PPIAL4G-11:1	SEQ3641	5.E-02	0.9
FTD	lnc-ADGRV1-6:1	SEQ4088	1.E-04	0.6	FTD	lnc-PPIAL4G-3:5	SEQ3650	3.E-04	0.6
All AD	lnc-ADGRV1-6:1	SEQ4088	4.E-02	0.7	All AD	lnc-PPIAL4G-3:5	SEQ3650	2.E-02	0.7
FTD	lnc-ADGRV1-8:1	SEQ4091	2.E-05	0.5	msAD	lnc-PPIAL4G-3:5	SEQ3650	5.E-02	0.8
MCI	lnc-ADGRV1-8:1	SEQ4091	1.E-03	0.6	DLB	lnc-PPIL2-1:4	SEQ4551	2.E-03	1.3
All AD	lnc-ADGRV1-8:1	SEQ4091	2.E-02	0.7	DLB	lnc-PPIL4-9:1	SEQ4781	1.E-03	1.7
FTD	lnc-ADH5-6:1	SEQ5409	3.E-04	0.6	MCI	lnc-PPP1R10-1:3	SEQ4826	2.E-06	0.6
DLB	lnc-ADIPOQ-3:2	SEQ4093	1.E-03	1.8	FTD	lnc-PPP1R10-1:3	SEQ4826	2.E-06	0.6
All AD	lnc-ADIPOQ-3:2	SEQ4093	5.E-02	1.2	DLB	lnc-PPP1R10-1:3	SEQ4826	9.E-04	0.6
DLB	lnc-ADIPOQ-3:3	SEQ5336	4.E-04	1.7	All AD	lnc-PPP1R10-1:3	SEQ4826	2.E-02	0.8
miAD	lnc-ADO-2:1	SEQ4096	1.E-02	0.7	DLB	lnc-PPP1R1A-2:1	SEQ5879	3.E-05	1.6
All AD	lnc-ADO-2:1	SEQ4096	3.E-02	0.8	DLB	lnc-PPP1R27-2:1	SEQ4761	4.E-05	1.6
FTD	lnc-ADRB1-4:1	SEQ0118	1.E-03	0.7	FTD	lnc-PPP1R27-2:1	SEQ4761	3.E-04	1.4
miAD	lnc-ADRB2-1:1	SEQ4099	9.E-03	0.7	MCI	lnc-PPP1R27-2:1	SEQ4761	1.E-03	1.5
All AD	lnc-ADRB2-1:1	SEQ4099	2.E-02	0.8	All AD	lnc-PPP1R27-2:1	SEQ4761	5.E-02	1.1
All AD	lnc-ADSS-4:1	SEQ3813	3.E-02	0.8	DLB	lnc-PPP1R3B-11:4	SEQ5277	5.E-04	1.8
msAD	lnc-ADSS-4:1	SEQ3813	4.E-02	0.8	DLB	lnc-PPP4C-2:7	SEQ3530	2.E-04	1.4
DLB	lnc-AEBP1-1:1	SEQ4975	2.E-04	1.6	MCI	lnc-PPP4C-2:7	SEQ3530	3.E-04	1.5
MCI	lnc-AEBP1-1:1	SEQ4975	8.E-04	1.7	DLB	lnc-PPP4R1-18:3	SEQ5377	3.E-04	1.5
DLB	lnc-AES-6:3	SEQ4772	9.E-06	1.7	MCI	lnc-PPP4R1-18:3	SEQ5377	3.E-04	1.5
MCI	lnc-AES-6:3	SEQ4772	1.E-03	1.5	DLB	lnc-PPP5D1-1:1	SEQ2313	1.E-03	1.3
DLB	lnc-AES-8:1	SEQ4930	8.E-04	1.4	DLB	lnc-PPP6R2-5:1	SEQ2811	1.E-05	1.7
FTD	lnc-AFG1L-5:1	SEQ0263	1.E-05	0.5	FTD	lnc-PPP6R2-5:1	SEQ2811	1.E-03	1.4
FTD	lnc-AFG1L-7:1	SEQ6011	3.E-10	0.1	MCI	lnc-PPP6R2-5:1	SEQ2811	2.E-03	1.4
miAD	lnc-AFG1L-8:1	SEQ4107	9.E-03	0.8	All AD	lnc-PQLC1-9:1	SEQ5467	3.E-02	1.2
All AD	lnc-AFG1L-8:1	SEQ4107	2.E-02	0.8	DLB	lnc-PQLC2-1:1	SEQ5794	6.E-05	1.7
DLB	lnc-AGAP2-2:1	SEQ4693	5.E-04	1.4	DLB	lnc-PRAME-7:1	SEQ4053	5.E-05	2.4
MCI	lnc-AGAP2-2:1	SEQ4693	1.E-03	1.4	All AD	lnc-PRAME-7:1	SEQ4053	2.E-02	1.3
DLB	lnc-AGAP5-6:1	SEQ5626	2.E-04	1.7	msAD	lnc-PRAME-7:1	SEQ4053	2.E-02	1.4
FTD	lnc-AGAP5-6:4	SEQ4803	1.E-03	0.5	miAD	lnc-PRCD-2:2	SEQ4106	1.E-02	0.6
FTD	lnc-AGBL1-7:1	SEQ5809	6.E-05	0.7	All AD	lnc-PRCD-2:2	SEQ4106	3.E-02	0.7
DLB	lnc-AGBL2-1:1	SEQ5126	6.E-04	1.6	FTD	lnc-PRDM14-4:1	SEQ6009	2.E-09	0.3
FTD	lnc-AGBL3-1:1	SEQ4046	1.E-06	0.5	All AD	lnc-PRDM7-1:2	SEQ5472	5.E-02	0.8
MCI	lnc-AGBL3-1:1	SEQ4046	2.E-03	0.7	FTD	lnc-PRDX6-3:1	SEQ4997	8.E-04	0.6
All AD	lnc-AGBL3-1:1	SEQ4046	4.E-03	0.7	All AD	lnc-PRDX6-3:1	SEQ4997	4.E-02	0.8
miAD	lnc-AGBL3-1:1	SEQ4046	4.E-03	0.7	DLB	lnc-PRELID1-1:1	SEQ5613	2.E-04	1.4
msAD	lnc-AGBL3-1:1	SEQ4046	2.E-02	0.7	DLB	lnc-PRICKLE4-1:1	SEQ5195	5.E-04	1.6
All AD	lnc-AGO1-1:1	SEQ2752	5.E-02	0.8	MCI	lnc-PRKCQ-3:1	SEQ4886	3.E-04	6.5
DLB	lnc-AGO2-2:2	SEQ0119	2.E-04	1.6	DLB	lnc-PRKCQ-3:1	SEQ4886	9.E-04	5.0
DLB	lnc-AGRP-1:13	SEQ4599	2.E-03	1.8	FTD	lnc-PRKD3-2:1	SEQ5911	2.E-05	0.5
MCI	lnc-AGRP-1:8	SEQ5330	9.E-05	1.6	FTD	lnc-PRKN-4:1	SEQ3854	4.E-05	0.6
DLB	lnc-AGRP-1:8	SEQ5330	4.E-04	1.6	All AD	lnc-PRKN-4:1	SEQ3854	1.E-02	0.8

DLB	lnc-AHNAK2-7:1	SEQ5698	1.E-04	1.6	msAD	lnc-PRKN-4:1	SEQ3854	3.E-02	0.8
FTD	lnc-AHSA2-2:1	SEQ5800	6.E-05	0.6	FTD	lnc-PRLHR-2:1	SEQ3635	3.E-07	0.6
FTD	lnc-AHSA2-5:6	SEQ3332	2.E-09	3.E-02	miAD	lnc-PRLHR-2:1	SEQ3635	1.E-02	0.7
MCI	lnc-AHSA2-5:6	SEQ3332	9.E-06	2.E-02	All AD	lnc-PRLHR-2:1	SEQ3635	1.E-02	0.7
DLB	lnc-AHSA2-5:6	SEQ3332	2.E-04	3.E-02	msAD	lnc-PRLHR-2:1	SEQ3635	5.E-02	0.8
FTD	lnc-AIDA-2:1	SEQ4124	3.E-04	0.7	FTD	lnc-PRPF4B-1:1	SEQ5654	5.E-07	0.5
miAD	lnc-AIDA-2:1	SEQ4124	8.E-03	0.8	MCI	lnc-PRPF4B-1:1	SEQ5654	1.E-04	0.6
All AD	lnc-AIDA-2:1	SEQ4124	2.E-02	0.8	DLB	lnc-PRR14-1:7	SEQ5531	2.E-04	1.6
All AD	lnc-AIM2-3:2	SEQ4125	5.E-02	0.8	DLB	lnc-PRRG2-1:1	SEQ4499	8.E-04	1.5
FTD	lnc-AIM2-3:3	SEQ3333	7.E-05	0.6	MCI	lnc-PRRG2-1:1	SEQ4499	2.E-03	1.4
All AD	lnc-AIM2-3:3	SEQ3333	4.E-03	0.7	DLB	lnc-PRSS2-5:1	SEQ5208	3.E-04	1.9
miAD	lnc-AIM2-3:3	SEQ3333	5.E-03	0.7	MCI	lnc-PRSS2-5:1	SEQ5208	5.E-04	1.8
msAD	lnc-AIM2-3:3	SEQ3333	2.E-02	0.7	All AD	lnc-PRSS2-5:1	SEQ5208	3.E-02	1.2
All AD	lnc-AIM2-3:4	SEQ4128	4.E-02	0.7	DLB	lnc-PRSS27-2:20	SEQ5557	2.E-04	1.3
FTD	lnc-AIM2-3:5	SEQ4130	5.E-05	0.6	DLB	lnc-PRSS27-4:12	SEQ5703	1.E-04	1.7
All AD	lnc-AIM2-3:5	SEQ4130	2.E-03	0.7	DLB	lnc-PRSS27-4:14	SEQ5216	5.E-04	2.0
miAD	lnc-AIM2-3:5	SEQ4130	2.E-03	0.7	FTD	lnc-PRSS27-4:24	SEQ2168	8.E-09	0.1
msAD	lnc-AIM2-3:5	SEQ4130	9.E-03	0.7	MCI	lnc-PRSS27-4:24	SEQ2168	3.E-08	0.1
All AD	lnc-AK4-2:1	SEQ3741	2.E-02	0.7	DLB	lnc-PRSS27-4:24	SEQ2168	4.E-04	0.1
msAD	lnc-AK4-2:1	SEQ3741	4.E-02	0.8	DLB	lnc-PRSS27-4:6	SEQ4532	2.E-03	1.9
FTD	lnc-AK7-6:1	SEQ4134	2.E-06	0.5	DLB	lnc-PSMA7-1:1	SEQ5951	7.E-06	1.9
MCI	lnc-AK7-6:1	SEQ4134	9.E-04	0.6	DLB	lnc-PSMB1-1:1	SEQ4416	2.E-03	1.4
miAD	lnc-AK7-6:1	SEQ4134	4.E-03	0.7	DLB	lnc-PSMB7-2:1	SEQ5622	2.E-04	1.6
All AD	lnc-AK7-6:1	SEQ4134	2.E-02	0.7	DLB	lnc-PSMB9-6:3	SEQ5503	2.E-04	2.9
FTD	lnc-AKAP11-1:1	SEQ5677	1.E-04	0.4	DLB	lnc-PSMC3-1:1	SEQ4929	2.E-04	1.5
All AD	lnc-AKIRIN1-1:10	SEQ4135	3.E-02	0.8	MCI	lnc-PSMC3-1:1	SEQ4929	8.E-04	1.4
All AD	lnc-AKNAD1-3:1	SEQ4136	2.E-02	0.8	DLB	lnc-PSMC3IP-1:1	SEQ3599	3.E-04	1.3
FTD	lnc-AKR1D1-5:2	SEQ0098	3.E-04	0.6	MCI	lnc-PSMC3IP-3:1	SEQ3754	8.E-05	1.7
DLB	lnc-AKR7A2-2:1	SEQ0145	1.E-03	1.4	FTD	lnc-PSMC3IP-3:1	SEQ3754	9.E-04	1.5
FTD	lnc-AKTIP-3:1	SEQ4139	1.E-05	0.6	DLB	lnc-PSMC3IP-3:1	SEQ3754	1.E-03	1.6
All AD	lnc-AKTIP-3:1	SEQ4139	3.E-02	0.8	All AD	lnc-PSMC3IP-3:1	SEQ3754	2.E-02	1.2
FTD	lnc-ALB-7:2	SEQ4141	1.E-07	0.4	msAD	lnc-PSMC3IP-3:1	SEQ3754	4.E-02	1.2
MCI	lnc-ALB-7:2	SEQ4141	2.E-04	0.5	DLB	lnc-PSMC3IP-3:11	SEQ4960	2.E-04	1.6
miAD	lnc-ALB-7:2	SEQ4141	7.E-03	0.6	MCI	lnc-PSMC3IP-3:11	SEQ4960	8.E-04	1.6
All AD	lnc-ALB-7:2	SEQ4141	2.E-02	0.7	DLB	lnc-PSMC3IP-3:13	SEQ3726	5.E-04	1.7
MCI	lnc-ALDH3B2-1:1	SEQ5648	1.E-04	2.4	MCI	lnc-PSMC3IP-3:13	SEQ3726	1.E-03	1.5
FTD	lnc-ALDH3B2-1:1	SEQ5648	1.E-04	1.8	msAD	lnc-PSMC3IP-3:13	SEQ3726	4.E-02	1.2
DLB	lnc-ALG12-5:3	SEQ3016	2.E-03	1.4	All AD	lnc-PSMC3IP-3:13	SEQ3726	5.E-02	1.2
All AD	lnc-ALPK1-2:3	SEQ4144	4.E-02	0.7	FTD	lnc-PSMC3IP-3:6	SEQ3982	2.E-04	1.6
FTD	lnc-ALPK1-2:4	SEQ4148	1.E-08	0.4	MCI	lnc-PSMC3IP-3:6	SEQ3982	2.E-04	1.6
MCI	lnc-ALPK1-2:4	SEQ4148	3.E-05	0.4	DLB	lnc-PSMC3IP-3:6	SEQ3982	1.E-03	1.6

miAD	lnc-ALPK1-2:4	SEQ4148	3.E-04	0.5	All AD	lnc-PSMC3IP-3:6	SEQ3982	6.E-03	1.3
DLB	lnc-ALPK1-2:4	SEQ4148	4.E-04	0.5	miAD	lnc-PSMC3IP-3:6	SEQ3982	8.E-03	1.3
All AD	lnc-ALPK1-2:4	SEQ4148	5.E-04	0.5	msAD	lnc-PSMC3IP-3:6	SEQ3982	2.E-02	1.2
msAD	lnc-ALPK1-2:4	SEQ4148	5.E-03	0.6	FTD	lnc-PSMC6-1:1	SEQ5982	2.E-06	0.4
FTD	lnc-AMDHD1-1:2	SEQ4073	3.E-05	0.6	FTD	lnc-PSMD6-1:1	SEQ5926	1.E-05	0.6
MCI	lnc-AMDHD1-1:2	SEQ4073	2.E-04	0.6	DLB	lnc-PSMD7-2:1	SEQ4720	1.E-03	1.8
miAD	lnc-AMDHD1-1:2	SEQ4073	1.E-02	0.7	DLB	lnc-PSMG4-1:1	SEQ3724	7.E-04	1.5
All AD	lnc-AMDHD1-1:2	SEQ4073	3.E-02	0.8	All AD	lnc-PSMG4-1:1	SEQ3724	2.E-02	1.2
FTD	lnc-AMY1B-1:10	SEQ5686	1.E-04	0.6	msAD	lnc-PSMG4-1:1	SEQ3724	4.E-02	1.2
FTD	lnc-AMZ2-5:5	SEQ4154	1.E-04	0.4	FTD	lnc-PTBP2-11:1	SEQ3669	7.E-06	0.6
MCI	lnc-AMZ2-5:5	SEQ4154	2.E-04	0.5	All AD	lnc-PTBP2-11:1	SEQ3669	3.E-02	0.8
miAD	lnc-AMZ2-5:5	SEQ4154	7.E-03	0.6	msAD	lnc-PTBP2-11:1	SEQ3669	5.E-02	0.8
All AD	lnc-AMZ2-5:5	SEQ4154	2.E-02	0.7	DLB	lnc-PTBP3-7:1	SEQ2703	5.E-04	1.3
MCI	lnc-AMZ2-8:1	SEQ4396	2.E-03	0.5	FTD	lnc-PTP4A2-3:4	SEQ5007	8.E-04	2.9
All AD	lnc-ANAPC11-2:11	SEQ3746	2.E-02	1.2	FTD	lnc-PTP4A2-3:6	SEQ5107	8.E-05	0.6
msAD	lnc-ANAPC11-2:11	SEQ3746	4.E-02	1.2	MCI	lnc-PTP4A2-3:6	SEQ5107	6.E-04	0.7
MCI	lnc-ANAPC11-2:2	SEQ3335	1.E-05	2.0	DLB	lnc-PTPMT1-2:1	SEQ2354	5.E-05	1.5
FTD	lnc-ANAPC11-2:2	SEQ3335	1.E-05	1.8	DLB	lnc-PTPN23-1:2	SEQ4934	8.E-04	1.4
DLB	lnc-ANAPC11-2:2	SEQ3335	3.E-05	2.1	FTD	lnc-PUM3-2:1	SEQ5291	4.E-04	0.6
All AD	lnc-ANAPC11-2:2	SEQ3335	2.E-03	1.3	FTD	lnc-PUM3-7:1	SEQ2337	8.E-04	0.6
miAD	lnc-ANAPC11-2:2	SEQ3335	3.E-03	1.3	FTD	lnc-PUS7-2:1	SEQ3909	4.E-08	0.5
msAD	lnc-ANAPC11-2:2	SEQ3335	9.E-03	1.2	miAD	lnc-PUS7-2:1	SEQ3909	1.E-03	0.6
DLB	lnc-ANAPC11-2:8	SEQ3283	1.E-05	1.5	All AD	lnc-PUS7-2:1	SEQ3909	3.E-03	0.7
MCI	lnc-ANAPC11-2:8	SEQ3283	4.E-05	1.4	msAD	lnc-PUS7-2:1	SEQ3909	3.E-02	0.7
DLB	lnc-ANGPTL1-2:1	SEQ3336	5.E-05	1.8	FTD	lnc-PUS7-3:1	SEQ6014	3.E-11	0.2
FTD	lnc-ANKFY1-5:1	SEQ5997	4.E-07	0.6	DLB	lnc-PXDC1-12:3	SEQ4641	1.E-03	1.5
MCI	lnc-ANKH-1:8	SEQ5053	3.E-04	2.3	All AD	lnc-PXDC1-12:3	SEQ4641	5.E-02	1.2
FTD	lnc-ANKH-1:8	SEQ5053	6.E-04	1.9	DLB	lnc-PYCARD-1:2	SEQ4964	8.E-04	1.6
DLB	lnc-ANKH-1:8	SEQ5053	7.E-04	2.6	DLB	lnc-QPRT-3:1	SEQ5329	4.E-04	1.6
DLB	lnc-ANKRD20A2-22:3	SEQ3338	1.E-05	1.7	MCI	lnc-RAB1A-6:1	SEQ5185	2.E-04	1.5
FTD	lnc-ANKRD20A2-22:3	SEQ3338	6.E-04	1.4	DLB	lnc-RAB1A-6:1	SEQ5185	5.E-04	1.5
All AD	lnc-ANKRD20A2-22:3	SEQ3338	5.E-02	1.1	DLB	lnc-RAB23-20:13	SEQ4851	9.E-04	1.5
miAD	lnc-ANKRD20A4-5:4	SEQ4167	7.E-03	0.7	FTD	lnc-RAB2B-2:2	SEQ5644	1.E-04	0.6
All AD	lnc-ANKRD20A4-5:4	SEQ4167	1.E-02	0.7	DLB	lnc-RAB37-1:5	SEQ5380	3.E-04	1.6
miAD	lnc-ANKRD27-9:1	SEQ4169	6.E-03	0.7	DLB	lnc-RAB3A-5:1	SEQ5567	2.E-04	1.6
All AD	lnc-ANKRD27-9:1	SEQ4169	4.E-02	0.8	MCI	lnc-RABEP2-4:1	SEQ5391	3.E-04	1.8
msAD	lnc-ANKRD33B-2:1	SEQ3825	4.E-02	1.4	DLB	lnc-RABEP2-7:1	SEQ5341	2.E-05	2.1
FTD	lnc-ANKRD34B-2:12	SEQ4174	8.E-05	0.6	MCI	lnc-RABEP2-7:1	SEQ5341	4.E-04	2.0
MCI	lnc-ANKRD34B-2:12	SEQ4174	9.E-04	0.6	DLB	lnc-RABEP2-7:2	SEQ3172	7.E-04	1.7
miAD	lnc-ANKRD34B-2:12	SEQ4174	5.E-03	0.7	MCI	lnc-RACK1-1:2	SEQ3580	9.E-06	1.6
All AD	lnc-ANKRD34B-2:12	SEQ4174	2.E-02	0.7	DLB	lnc-RACK1-1:2	SEQ3580	2.E-05	1.6
FTD	lnc-ANKRD34B-2:13	SEQ4176	8.E-05	0.6	DLB	lnc-RADIL-1:1	SEQ5262	9.E-05	1.6
MCI	lnc-ANKRD34B-2:13	SEQ4176	1.E-03	0.6	MCI	lnc-RADIL-1:1	SEQ5262	5.E-04	1.5

miAD	lnc-ANKRD34B-2:13	SEQ4176	5.E-03	0.7	All AD	lnc-RAG1-4:1	SEQ5504	4.E-02	0.8
All AD	lnc-ANKRD34B-2:13	SEQ4176	2.E-02	0.7	DLB	lnc-RAI1-2:2	SEQ5573	2.E-04	1.6
FTD	lnc-ANKRD34B-2:7	SEQ4179	1.E-04	0.5	All AD	lnc-RAMP3-1:1	SEQ5506	2.E-02	0.7
miAD	lnc-ANKRD34B-2:7	SEQ4179	7.E-04	0.6	DLB	lnc-RANBP9-1:3	SEQ4092	2.E-04	1.4
All AD	lnc-ANKRD34B-2:7	SEQ4179	1.E-02	0.7	All AD	lnc-RANBP9-1:3	SEQ4092	6.E-03	1.2
FTD	lnc-ANKRD34B-2:8	SEQ4181	3.E-04	0.4	miAD	lnc-RANBP9-1:3	SEQ4092	1.E-02	1.2
MCI	lnc-ANKRD34B-2:8	SEQ4181	1.E-03	0.5	msAD	lnc-RANBP9-1:3	SEQ4092	1.E-02	1.2
All AD	lnc-ANKRD34B-2:8	SEQ4181	4.E-02	0.6	FTD	lnc-RAP2C-4:1	SEQ4377	1.E-06	0.5
miAD	lnc-ANKRD34B-4:1	SEQ2896	4.E-03	1.2	MCI	lnc-RAP2C-4:1	SEQ4377	2.E-04	0.5
All AD	lnc-ANKRD34B-4:1	SEQ2896	5.E-03	1.2	miAD	lnc-RAP2C-4:1	SEQ4377	3.E-03	0.6
msAD	lnc-ANKRD34B-4:1	SEQ2896	2.E-02	1.2	All AD	lnc-RAP2C-4:1	SEQ4377	8.E-03	0.7
All AD	lnc-ANKRD36-1:4	SEQ4183	4.E-03	1.5	DLB	lnc-RAPSN-2:1	SEQ4610	1.E-03	1.3
msAD	lnc-ANKRD36-1:4	SEQ4183	8.E-03	1.5	FTD	lnc-RARB-4:1	SEQ5210	2.E-04	1.6
miAD	lnc-ANKRD36-1:4	SEQ4183	1.E-02	1.5	MCI	lnc-RARB-4:1	SEQ5210	3.E-04	2.0
DLB	lnc-ANKRD39-1:1	SEQ4491	2.E-03	1.4	DLB	lnc-RARB-4:1	SEQ5210	5.E-04	1.8
FTD	lnc-ANKS1B-1:1	SEQ3860	1.E-07	0.5	MCI	lnc-RARRES2-2:2	SEQ2774	4.E-06	1.6
MCI	lnc-ANKS1B-1:1	SEQ3860	6.E-05	0.6	DLB	lnc-RARRES2-2:2	SEQ2774	9.E-06	1.6
All AD	lnc-ANKS1B-1:1	SEQ3860	1.E-02	0.7	FTD	lnc-RARRES2-2:2	SEQ2774	6.E-05	1.4
msAD	lnc-ANKS1B-1:1	SEQ3860	3.E-02	0.8	All AD	lnc-RARRES2-2:2	SEQ2774	3.E-03	1.2
DLB	lnc-ANKS3-2:1	SEQ2771	2.E-03	1.5	miAD	lnc-RARRES2-2:2	SEQ2774	5.E-03	1.2
All AD	lnc-ANLN-6:1	SEQ4186	4.E-02	0.8	msAD	lnc-RARRES2-2:2	SEQ2774	8.E-03	1.2
DLB	lnc-ANP32E-1:1	SEQ4400	2.E-03	1.2	DLB	lnc-RARRES2-5:1	SEQ5383	2.E-04	1.7
FTD	lnc-ANTXR2-1:8	SEQ5547	2.E-04	0.6	MCI	lnc-RARRES2-5:1	SEQ5383	3.E-04	1.6
FTD	lnc-ANXA3-7:1	SEQ5781	7.E-05	0.6	All AD	lnc-RARS2-4:1	SEQ3642	3.E-02	0.8
FTD	lnc-ANXA3-8:1	SEQ0670	1.E-06	0.6	msAD	lnc-RARS2-4:1	SEQ3642	5.E-02	0.9
MCI	lnc-ANXA3-8:1	SEQ0670	1.E-04	0.6	FTD	lnc-RASA2-1:1	SEQ5294	4.E-04	0.7
All AD	lnc-ANXA3-8:1	SEQ0670	4.E-02	0.8	miAD	lnc-RASSF3-1:1	SEQ4155	1.E-02	0.7
FTD	lnc-AP1AR-1:1	SEQ4189	4.E-08	0.5	All AD	lnc-RASSF3-1:1	SEQ4155	2.E-02	0.8
miAD	lnc-AP1AR-1:1	SEQ4189	4.E-04	0.5	DLB	lnc-RBAK-RBAKDN-2:13	SEQ5129	6.E-04	1.6
All AD	lnc-AP1AR-1:1	SEQ4189	8.E-04	0.6	MCI	lnc-RBBP8NL-2:1	SEQ5128	6.E-04	1.6
MCI	lnc-AP1AR-1:1	SEQ4189	2.E-03	0.6	FTD	lnc-RBL2-1:10	SEQ4900	9.E-04	0.6
msAD	lnc-AP1AR-1:1	SEQ4189	9.E-03	0.6	FTD	lnc-RBL2-1:11	SEQ5587	2.E-04	0.5
FTD	lnc-AP3S1-4:3	SEQ2424	1.E-08	0.3	MCI	lnc-RBL2-1:3	SEQ4730	4.E-04	3.5
MCI	lnc-AP3S1-4:3	SEQ2424	1.E-04	0.4	DLB	lnc-RBL2-1:3	SEQ4730	1.E-03	2.7
MCI	lnc-APAF1-3:1	SEQ5059	2.E-05	0.4	FTD	lnc-RBM12B-4:2	SEQ5071	7.E-04	0.7
FTD	lnc-APAF1-3:1	SEQ5059	7.E-04	0.6	MCI	lnc-RBM23-3:1	SEQ4562	3.E-05	1.6
miAD	lnc-APBB2-3:1	SEQ4195	8.E-03	0.6	DLB	lnc-RBM23-3:1	SEQ4562	2.E-03	1.4
All AD	lnc-APBB2-3:1	SEQ4195	1.E-02	0.7	DLB	lnc-RBM28-3:2	SEQ5532	2.E-04	1.7
DLB	lnc-APCDD1L-3:2	SEQ5727	9.E-05	1.4	FTD	lnc-RC3H1-2:1	SEQ4355	6.E-08	0.5
FTD	lnc-APLNR-3:1	SEQ5227	5.E-04	0.6	miAD	lnc-RC3H1-2:1	SEQ4355	4.E-03	0.7
All AD	lnc-APOBEC3A-2:1	SEQ3666	2.E-02	0.8	All AD	lnc-RC3H1-2:1	SEQ4355	1.E-02	0.7
msAD	lnc-APOBEC3A-2:1	SEQ3666	5.E-02	0.8	All AD	lnc-RC3H2-1:1	SEQ5518	4.E-02	0.8
DLB	lnc-APOBEC3H-3:1	SEQ5259	5.E-04	1.5	FTD	lnc-RCC1L-3:1	SEQ3975	7.E-07	0.5

DLB	lnc-APOC3-2:7	SEQ4685	1.E-03	1.4	MCI	lnc-RCC1L-3:1	SEQ3975	2.E-05	0.6
DLB	lnc-APOL2-5:1	SEQ5264	5.E-04	1.6	All AD	lnc-RCC1L-3:1	SEQ3975	2.E-02	0.7
msAD	lnc-APOL4-1:5	SEQ4202	8.E-03	0.8	msAD	lnc-RCC1L-3:1	SEQ3975	2.E-02	0.7
All AD	lnc-APOL4-1:5	SEQ4202	1.E-02	0.8	All AD	lnc-RCSD1-4:1	SEQ0831	5.E-02	0.8
MCI	lnc-APOL5-4:1	SEQ2343	2.E-05	0.6	FTD	lnc-RDH10-3:1	SEQ5869	4.E-05	0.6
FTD	lnc-APOL5-4:1	SEQ2343	4.E-05	0.6	DLB	lnc-RDH13-1:2	SEQ0250	1.E-03	1.5
All AD	lnc-APOL5-4:1	SEQ2343	2.E-03	0.7	DLB	lnc-REC8-2:1	SEQ4479	9.E-06	1.5
msAD	lnc-APOL5-4:1	SEQ2343	3.E-03	0.6	MCI	lnc-REC8-2:1	SEQ4479	2.E-03	1.3
miAD	lnc-APOL5-4:1	SEQ2343	6.E-03	0.7	FTD	lnc-REL-1:3	SEQ2508	2.E-05	0.6
All AD	lnc-AQP8-2:1	SEQ3756	3.E-02	1.4	FTD	lnc-REL-6:3	SEQ3461	1.E-04	0.7
msAD	lnc-AQP8-2:1	SEQ3756	4.E-02	1.5	All AD	lnc-REL-6:3	SEQ3461	5.E-02	0.8
DLB	lnc-AQP8-2:5	SEQ4835	9.E-04	1.4	msAD	lnc-REXO5-1:2	SEQ4665	1.E-03	2.0
DLB	lnc-ARAF-1:1	SEQ5459	2.E-04	1.9	All AD	lnc-REXO5-1:2	SEQ4665	5.E-03	1.7
MCI	lnc-ARAF-1:1	SEQ5459	3.E-04	2.0	MCI	lnc-RFNG-1:7	SEQ2768	3.E-05	1.5
DLB	lnc-ARF5-7:1	SEQ4756	1.E-05	1.6	DLB	lnc-RFNG-1:7	SEQ2768	4.E-05	1.4
MCI	lnc-ARF5-7:1	SEQ4756	1.E-03	1.4	miAD	lnc-RFNG-1:7	SEQ2768	6.E-03	1.2
MCI	lnc-ARF6-1:1	SEQ4542	3.E-05	2.E-04	All AD	lnc-RFNG-1:7	SEQ2768	2.E-02	1.1
DLB	lnc-ARF6-1:1	SEQ4542	2.E-03	2.E-04	msAD	lnc-RFT1-3:1	SEQ4061	2.E-02	1.5
All AD	lnc-ARHGAP10-5:2	SEQ3781	2.E-02	1.3	All AD	lnc-RFT1-3:1	SEQ4061	3.E-02	1.3
msAD	lnc-ARHGAP10-5:2	SEQ3781	4.E-02	1.3	FTD	lnc-RGPD2-2:1	SEQ5354	4.E-04	0.6
MCI	lnc-ARHGEF1-5:1	SEQ4210	1.E-05	1.6	FTD	lnc-RGS6-3:1	SEQ5974	3.E-06	0.6
FTD	lnc-ARHGEF1-5:1	SEQ4210	4.E-05	1.5	FTD	lnc-RGS9-15:4	SEQ4117	1.E-03	0.7
DLB	lnc-ARHGEF1-5:1	SEQ4210	2.E-04	1.5	All AD	lnc-RGS9-15:4	SEQ4117	1.E-02	0.8
All AD	lnc-ARHGEF1-5:1	SEQ4210	4.E-02	1.1	miAD	lnc-RGS9-15:4	SEQ4117	1.E-02	0.8
FTD	lnc-ARHGEF39-1:1	SEQ3834	6.E-05	1.5	FTD	lnc-RICTOR-2:1	SEQ5065	7.E-04	0.7
All AD	lnc-ARHGEF39-1:1	SEQ3834	3.E-02	1.2	MCI	lnc-RIMBP3C-3:1	SEQ5754	8.E-05	1.7
msAD	lnc-ARHGEF39-1:1	SEQ3834	3.E-02	1.2	DLB	lnc-RIMBP3C-5:1	SEQ4637	3.E-04	1.7
FTD	lnc-ARHGEF39-1:3	SEQ3718	2.E-04	1.5	MCI	lnc-RIMBP3C-5:1	SEQ4637	1.E-03	1.5
All AD	lnc-ARHGEF39-1:3	SEQ3718	4.E-02	1.2	MCI	lnc-RIMKLB-6:5	SEQ4663	1.E-03	3.4
msAD	lnc-ARHGEF39-1:3	SEQ3718	4.E-02	1.2	msAD	lnc-RIPOR1-1:5	SEQ3647	5.E-02	1.2
MCI	lnc-ARID2-8:1	SEQ3792	1.E-03	1.7	DLB	lnc-RIPOR1-1:6	SEQ2943	2.E-03	1.4
DLB	lnc-ARID2-8:1	SEQ3792	2.E-03	1.7	DLB	lnc-RIPOR1-1:7	SEQ3158	5.E-04	1.5
All AD	lnc-ARID2-8:1	SEQ3792	1.E-02	1.3	DLB	lnc-RIPOR1-1:8	SEQ4771	1.E-03	1.5
miAD	lnc-ARID2-8:1	SEQ3792	1.E-02	1.3	DLB	lnc-RIPOR2-7:1	SEQ3466	2.E-03	1.5
msAD	lnc-ARID2-8:1	SEQ3792	4.E-02	1.3	DLB	lnc-RIPOR2-7:2	SEQ4506	2.E-03	1.5
MCI	lnc-ARID3B-4:1	SEQ4216	3.E-04	1.6	DLB	lnc-RIPOR3-1:1	SEQ4925	8.E-04	1.4
All AD	lnc-ARID3B-4:1	SEQ4216	4.E-02	1.1	DLB	lnc-RLBP1-3:1	SEQ4750	1.E-03	1.4
DLB	lnc-ARID5A-2:1	SEQ4523	2.E-04	1.7	DLB	lnc-RLIM-4:1	SEQ3579	1.E-03	1.5
MCI	lnc-ARID5A-2:1	SEQ4523	2.E-03	1.6	All AD	lnc-RMDN2-3:24	SEQ2468	3.E-02	0.8
MCI	lnc-ARL14-2:3	SEQ4782	1.E-03	1.7	All AD	lnc-RMI2-3:1	SEQ5534	4.E-02	0.7
DLB	lnc-ARL16-1:1	SEQ5616	2.E-04	1.4	MCI	lnc-RNASET2-1:4	SEQ4516	2.E-04	1.5
DLB	lnc-ARL16-1:2	SEQ4559	1.E-04	1.5	DLB	lnc-RNASET2-1:4	SEQ4516	2.E-03	1.5
MCI	lnc-ARL16-1:2	SEQ4559	2.E-03	1.4	FTD	lnc-RNASET2-1:5	SEQ5545	2.E-04	0.6

FTD	lnc-ARL5A-1:1	SEQ5745	9.E-05	0.6	FTD	lnc-RNASET2-1:9	SEQ4282	4.E-08	0.3
DLB	lnc-ARMC6-1:1	SEQ4624	1.E-03	1.4	MCI	lnc-RNASET2-1:9	SEQ4282	1.E-03	0.5
DLB	lnc-ARMC6-1:2	SEQ4854	9.E-04	1.5	miAD	lnc-RNASET2-1:9	SEQ4282	7.E-03	0.5
DLB	lnc-ARMC7-1:1	SEQ5527	2.E-04	1.5	All AD	lnc-RNASET2-1:9	SEQ4282	1.E-02	0.6
DLB	lnc-ARRDC2-3:1	SEQ5618	2.E-04	1.6	FTD	lnc-RNF111-3:1	SEQ5468	3.E-04	0.6
All AD	lnc-ARSG-2:8	SEQ2535	3.E-02	0.6	DLB	lnc-RNF123-1:1	SEQ4013	2.E-04	1.6
MCI	lnc-ARVCF-4:11	SEQ5818	3.E-05	1.6	MCI	lnc-RNF123-1:1	SEQ4013	8.E-04	1.5
DLB	lnc-ARVCF-4:11	SEQ5818	5.E-05	1.6	msAD	lnc-RNF123-1:1	SEQ4013	2.E-02	1.2
MCI	lnc-ARVCF-4:13	SEQ4194	1.E-05	2.0	All AD	lnc-RNF123-1:1	SEQ4013	3.E-02	1.2
FTD	lnc-ARVCF-4:13	SEQ4194	2.E-04	1.6	miAD	lnc-RNF125-2:1	SEQ4605	1.E-03	1.6
All AD	lnc-ARVCF-4:13	SEQ4194	4.E-03	1.2	DLB	lnc-RNF125-2:2	SEQ5760	8.E-05	2.3
miAD	lnc-ARVCF-4:13	SEQ4194	8.E-03	1.2	FTD	lnc-RNF13-4:1	SEQ5837	4.E-09	0.2
msAD	lnc-ARVCF-4:13	SEQ4194	1.E-02	1.2	MCI	lnc-RNF13-4:1	SEQ5837	6.E-08	0.3
FTD	lnc-ASCC2-1:1	SEQ3888	1.E-04	0.6	DLB	lnc-RNF13-4:1	SEQ5837	4.E-05	0.3
All AD	lnc-ASCC2-1:1	SEQ3888	8.E-03	0.7	miAD	lnc-RNF149-3:1	SEQ3914	1.E-03	0.7
miAD	lnc-ASCC2-1:1	SEQ3888	8.E-03	0.6	All AD	lnc-RNF149-3:1	SEQ3914	3.E-03	0.7
msAD	lnc-ASCC2-1:1	SEQ3888	3.E-02	0.8	msAD	lnc-RNF149-3:1	SEQ3914	3.E-02	0.8
FTD	lnc-ASF1A-6:1	SEQ4225	4.E-04	0.7	FTD	lnc-RNF219-3:1	SEQ5989	2.E-06	0.5
MCI	lnc-ASF1A-6:1	SEQ4225	5.E-04	0.7	FTD	lnc-RNF219-6:1	SEQ5653	4.E-07	0.5
All AD	lnc-ASF1A-6:1	SEQ4225	7.E-03	0.7	MCI	lnc-RNF219-6:1	SEQ5653	1.E-04	0.5
msAD	lnc-ASF1A-6:1	SEQ4225	8.E-03	0.7	DLB	lnc-RNF24-2:5	SEQ3190	5.E-04	1.7
All AD	lnc-ASPHD2-2:2	SEQ2612	4.E-03	1.1	DLB	lnc-RNF24-2:9	SEQ5790	6.E-05	1.5
msAD	lnc-ASPHD2-2:2	SEQ2612	5.E-03	1.2	DLB	lnc-RNF40-1:1	SEQ3839	8.E-05	1.6
miAD	lnc-ASPHD2-2:2	SEQ2612	1.E-02	1.1	MCI	lnc-RNF40-1:1	SEQ3839	6.E-04	1.5
FTD	lnc-ASPRV1-2:1	SEQ4229	4.E-05	0.6	msAD	lnc-RNF40-1:1	SEQ3839	3.E-02	1.2
All AD	lnc-ASPRV1-2:1	SEQ4229	3.E-02	0.8	DLB	lnc-RNFT2-1:7	SEQ4939	8.E-04	1.5
DLB	lnc-ASXL1-3:1	SEQ2650	3.E-04	1.5	MCI	lnc-RNMT-7:1	SEQ4875	8.E-04	1.8
MCI	lnc-ASXL1-4:3	SEQ4231	2.E-04	1.8	DLB	lnc-RNMT-7:1	SEQ4875	9.E-04	1.9
DLB	lnc-ASXL1-4:3	SEQ4231	7.E-04	1.8	FTD	lnc-ROCK1-1:1	SEQ5980	3.E-06	0.6
All AD	lnc-ASXL1-4:3	SEQ4231	4.E-02	1.2	DLB	lnc-ROGDI-1:1	SEQ5950	7.E-06	1.4
DLB	lnc-ATAD2-1:1	SEQ4447	2.E-03	1.6	DLB	lnc-ROM1-4:1	SEQ5258	5.E-04	1.5
FTD	lnc-ATAD5-9:9	SEQ3904	1.E-06	0.5	DLB	lnc-ROM1-7:1	SEQ3478	3.E-04	1.5
miAD	lnc-ATAD5-9:9	SEQ3904	4.E-03	0.7	DLB	lnc-ROM1-7:3	SEQ3586	2.E-04	1.6
All AD	lnc-ATAD5-9:9	SEQ3904	6.E-03	0.7	DLB	lnc-ROM1-7:6	SEQ3589	2.E-03	1.5
msAD	lnc-ATAD5-9:9	SEQ3904	3.E-02	0.7	FTD	lnc-ROPN1L-2:2	SEQ5554	3.E-08	0.5
MCI	lnc-ATG12-3:2	SEQ2558	2.E-03	1.8	MCI	lnc-ROPN1L-2:2	SEQ5554	2.E-05	0.6
All AD	lnc-ATG3-1:1	SEQ4191	5.E-03	0.7	All AD	lnc-ROPN1L-2:2	SEQ5554	4.E-02	0.7
miAD	lnc-ATG3-1:1	SEQ4191	1.E-02	0.7	FTD	lnc-RORA-2:1	SEQ3798	8.E-06	0.4
msAD	lnc-ATG3-1:1	SEQ4191	1.E-02	0.7	All AD	lnc-RORA-2:1	SEQ3798	2.E-02	0.7
FTD	lnc-ATL1-4:1	SEQ5001	8.E-04	0.7	msAD	lnc-RORA-2:1	SEQ3798	4.E-02	0.7
FTD	lnc-ATOH7-3:3	SEQ3867	3.E-07	0.5	FTD	lnc-RPE-4:2	SEQ5964	5.E-06	0.6
MCI	lnc-ATOH7-3:3	SEQ3867	6.E-04	0.6	DLB	lnc-RPIA-4:2	SEQ4656	1.E-03	1.9
miAD	lnc-ATOH7-3:3	SEQ3867	3.E-03	0.7	DLB	lnc-RPIA-5:1	SEQ4982	8.E-04	2.1

All AD	lnc-ATOH7-3:3	SEQ3867	5.E-03	0.7	All AD	lnc-RPIA-5:1	SEQ4982	3.E-02	1.3
msAD	lnc-ATOH7-3:3	SEQ3867	3.E-02	0.7	DLB	lnc-RPL12-1:3	SEQ3024	1.E-03	1.5
DLB	lnc-ATOX1-4:1	SEQ2621	1.E-03	1.4	DLB	lnc-RPL13-5:1	SEQ5446	3.E-04	1.6
FTD	lnc-ATP11B-6:1	SEQ4668	7.E-07	0.5	DLB	lnc-RPL36AL-1:1	SEQ4550	2.E-03	1.3
MCI	lnc-ATP11B-6:1	SEQ4668	1.E-03	0.6	DLB	lnc-RPP38-5:1	SEQ5046	7.E-04	1.8
miAD	lnc-ATP1A1-1:2	SEQ4077	1.E-02	0.8	FTD	lnc-RPP38-6:2	SEQ5782	7.E-05	0.6
All AD	lnc-ATP1A1-1:2	SEQ4077	2.E-02	0.8	miAD	lnc-RPS12-1:1	SEQ4218	1.E-02	0.7
DLB	lnc-ATP6AP2-3:1	SEQ5197	5.E-04	1.6	All AD	lnc-RPS12-1:1	SEQ4218	2.E-02	0.7
FTD	lnc-ATP6V1C1-9:4	SEQ3802	7.E-07	0.6	MCI	lnc-RPS25-5:1	SEQ4968	8.E-04	1.6
All AD	lnc-ATP6V1C1-9:4	SEQ3802	2.E-02	0.7	MCI	lnc-RRN3-4:1	SEQ4461	1.E-06	2.1
msAD	lnc-ATP6V1C1-9:4	SEQ3802	4.E-02	0.8	DLB	lnc-RRN3-4:1	SEQ4461	3.E-06	2.1
MCI	lnc-ATP6V1E2-5:2	SEQ4243	8.E-05	1.7	FTD	lnc-RRN3-4:1	SEQ4461	3.E-05	1.8
DLB	lnc-ATP6V1E2-5:2	SEQ4243	3.E-04	1.5	miAD	lnc-RRN3-4:1	SEQ4461	2.E-03	1.3
All AD	lnc-ATP6V1E2-5:2	SEQ4243	3.E-02	1.2	All AD	lnc-RRN3-4:1	SEQ4461	7.E-03	1.3
DLB	lnc-ATP6V1G1-2:1	SEQ5199	5.E-04	1.7	FTD	lnc-RSBN1-1:1	SEQ5104	1.E-05	0.5
FTD	lnc-ATP6V1G3-2:1	SEQ4045	3.E-07	0.5	MCI	lnc-RSBN1-1:1	SEQ5104	6.E-04	0.6
MCI	lnc-ATP6V1G3-2:1	SEQ4045	4.E-05	0.6	DLB	lnc-RSPH10B2-1:3	SEQ2580	1.E-03	1.5
All AD	lnc-ATP6V1G3-2:1	SEQ4045	5.E-03	0.7	DLB	lnc-RSPH1-7:2	SEQ4513	2.E-03	1.5
miAD	lnc-ATP6V1G3-2:1	SEQ4045	6.E-03	0.6	DLB	lnc-RTL8B-1:2	SEQ5693	1.E-04	1.5
msAD	lnc-ATP6V1G3-2:1	SEQ4045	2.E-02	0.7	FTD	lnc-RTN4-1:1	SEQ5361	4.E-04	0.7
MCI	lnc-ATPAF2-2:1	SEQ4451	2.E-03	1.6	All AD	lnc-RTP2-1:1	SEQ3786	1.E-02	0.7
DLB	lnc-ATPAF2-2:1	SEQ4451	2.E-03	1.7	msAD	lnc-RTP2-1:1	SEQ3786	4.E-02	0.7
DLB	lnc-ATXN7L3-1:3	SEQ4480	2.E-03	1.3	miAD	lnc-RTP2-1:2	SEQ3661	1.E-02	0.7
DLB	lnc-AUNIP-1:1	SEQ5492	2.E-04	1.6	All AD	lnc-RTP2-1:2	SEQ3661	1.E-02	0.7
DLB	lnc-AUNIP-1:12	SEQ2821	2.E-05	1.6	msAD	lnc-RTP2-1:2	SEQ3661	5.E-02	0.7
msAD	lnc-AUNIP-1:12	SEQ2821	7.E-03	1.2	All AD	lnc-RTP4-5:2	SEQ5563	4.E-02	0.8
All AD	lnc-AUNIP-1:12	SEQ2821	1.E-02	1.2	FTD	lnc-RXFP2-2:2	SEQ5941	1.E-05	0.6
MCI	lnc-AUNIP-2:1	SEQ4658	1.E-03	2.0	FTD	lnc-RXFP2-3:1	SEQ5289	4.E-04	0.6
msAD	lnc-B2M-1:1	SEQ3816	4.E-02	0.8	MCI	lnc-SAG-3:1	SEQ3534	2.E-03	1.8
msAD	lnc-B2M-1:2	SEQ3986	2.E-02	0.7	FTD	lnc-SAMD11-12:4	SEQ4200	8.E-07	0.2
All AD	lnc-B2M-1:2	SEQ3986	3.E-02	0.8	MCI	lnc-SAMD11-12:4	SEQ4200	1.E-06	0.2
All AD	lnc-B4GALNT3-2:11	SEQ4249	5.E-02	0.8	DLB	lnc-SAMD11-12:4	SEQ4200	4.E-05	0.3
MCI	lnc-B4GALNT3-4:2	SEQ4583	2.E-03	1.5	All AD	lnc-SAMD11-12:4	SEQ4200	4.E-03	0.5
MCI	lnc-BANP-10:1	SEQ4430	2.E-03	1.6	msAD	lnc-SAMD11-12:4	SEQ4200	9.E-03	0.6
DLB	lnc-BANP-10:1	SEQ4430	2.E-03	1.5	miAD	lnc-SAMD11-12:4	SEQ4200	1.E-02	0.5
DLB	lnc-BASP1-1:1	SEQ5255	5.E-04	1.5	All AD	lnc-SAMD11-13:2	SEQ3700	4.E-02	1.2
MCI	lnc-BAZ1A-2:1	SEQ2485	5.E-05	1.7	msAD	lnc-SAMD11-13:2	SEQ3700	5.E-02	1.3
FTD	lnc-BAZ1A-2:1	SEQ2485	1.E-04	1.7	FTD	lnc-SAMD11-14:1	SEQ3001	1.E-04	0.7
miAD	lnc-BAZ1A-2:1	SEQ2485	7.E-03	1.3	MCI	lnc-SAMD11-14:1	SEQ3001	1.E-03	0.7
All AD	lnc-BAZ1A-2:1	SEQ2485	1.E-02	1.2	FTD	lnc-SAMD12-4:1	SEQ5404	3.E-04	0.6
FTD	lnc-BAZ2B-1:7	SEQ3737	7.E-05	0.6	All AD	lnc-SAMD12-4:1	SEQ5404	5.E-02	0.7
miAD	lnc-BAZ2B-1:7	SEQ3737	4.E-03	0.6	DLB	lnc-SAMD4A-3:1	SEQ4442	7.E-04	1.8
All AD	lnc-BAZ2B-1:7	SEQ3737	7.E-03	0.7	MCI	lnc-SAMD4A-3:1	SEQ4442	2.E-03	1.6

msAD	lnc-BAZ2B-1:7	SEQ3737	4.E-02	0.7	FTD	lnc-SAMD5-1:10	SEQ0090	3.E-06	0.5
FTD	lnc-BAZ2B-2:1	SEQ3649	3.E-05	0.6	miAD	lnc-SAMD5-1:10	SEQ0090	4.E-03	0.6
miAD	lnc-BAZ2B-2:1	SEQ3649	1.E-02	0.7	msAD	lnc-SAMD9L-1:1	SEQ4296	7.E-03	0.6
All AD	lnc-BAZ2B-2:1	SEQ3649	1.E-02	0.7	All AD	lnc-SAMD9L-1:1	SEQ4296	1.E-02	0.7
msAD	lnc-BAZ2B-2:1	SEQ3649	5.E-02	0.8	FTD	lnc-SAR1B-1:1	SEQ5839	1.E-05	0.5
FTD	lnc-BCL2L11-3:1	SEQ5605	2.E-04	0.7	MCI	lnc-SAR1B-1:1	SEQ5839	4.E-05	0.5
FTD	lnc-BCL2L11-3:3	SEQ5234	5.E-04	0.7	FTD	lnc-SBDS-3:1	SEQ5159	5.E-04	0.7
All AD	lnc-BCL2L11-6:1	SEQ4257	4.E-02	0.8	DLB	lnc-SBDS-4:3	SEQ5480	2.E-04	1.4
All AD	lnc-BDH1-5:10	SEQ4258	5.E-03	1.8	DLB	lnc-SBDS-4:9	SEQ3145	6.E-05	1.7
msAD	lnc-BDH1-5:10	SEQ4258	6.E-03	1.9	FTD	lnc-SBF2-1:5	SEQ4028	4.E-05	0.6
FTD	lnc-BDH1-5:12	SEQ4105	8.E-08	0.4	All AD	lnc-SBF2-1:5	SEQ4028	5.E-03	0.6
miAD	lnc-BDH1-5:12	SEQ4105	1.E-02	0.6	miAD	lnc-SBF2-1:5	SEQ4028	6.E-03	0.6
All AD	lnc-BDH1-5:12	SEQ4105	2.E-02	0.6	msAD	lnc-SBF2-1:5	SEQ4028	2.E-02	0.7
MCI	lnc-BICD1-5:1	SEQ4439	5.E-04	1.8	DLB	lnc-SBK1-1:1	SEQ3472	2.E-03	1.8
DLB	lnc-BICD1-5:1	SEQ4439	2.E-03	1.5	DLB	lnc-SBNO1-1:1	SEQ4866	9.E-04	1.6
DLB	lnc-BICRAL-3:1	SEQ2666	4.E-04	1.5	DLB	lnc-SBNO2-1:3	SEQ5440	3.E-04	1.5
DLB	lnc-BIN3-1:1	SEQ5614	2.E-04	1.4	FTD	lnc-SCAF8-5:3	SEQ5959	7.E-06	0.6
DLB	lnc-BIN3-2:1	SEQ2884	9.E-04	1.4	DLB	lnc-SCARB1-4:1	SEQ5040	7.E-04	1.6
FTD	lnc-BIRC6-1:4	SEQ0892	5.E-04	0.7	MCI	lnc-SCEL-6:1	SEQ3655	6.E-06	2.0
FTD	lnc-BOLA2B-1:5	SEQ5096	6.E-04	1.6	DLB	lnc-SCEL-6:1	SEQ3655	6.E-06	2.1
DLB	lnc-BOLA2B-1:7	SEQ4698	7.E-04	1.4	FTD	lnc-SCEL-6:1	SEQ3655	2.E-05	1.8
MCI	lnc-BOLA2B-1:7	SEQ4698	1.E-03	1.5	All AD	lnc-SCEL-6:1	SEQ3655	3.E-02	1.2
DLB	lnc-BOLL-1:1	SEQ3744	3.E-05	1.9	msAD	lnc-SCEL-6:1	SEQ3655	5.E-02	1.2
MCI	lnc-BOLL-1:1	SEQ3744	4.E-04	1.6	DLB	lnc-SCG3-5:1	SEQ4780	1.E-03	1.6
All AD	lnc-BOLL-1:1	SEQ3744	3.E-02	1.2	DLB	lnc-SCGB2B2-11:1	SEQ5561	5.E-05	1.6
msAD	lnc-BOLL-1:1	SEQ3744	4.E-02	1.2	MCI	lnc-SCGB2B2-11:1	SEQ5561	2.E-04	1.5
FTD	lnc-BOLL-6:1	SEQ5586	2.E-04	0.4	msAD	lnc-SCGB3A1-3:5	SEQ3842	3.E-02	1.3
MCI	lnc-BORCS5-1:2	SEQ3820	1.E-03	1.5	All AD	lnc-SCGB3A1-3:5	SEQ3842	4.E-02	1.3
DLB	lnc-BORCS5-1:2	SEQ3820	1.E-03	1.5	All AD	lnc-SCO1-1:1	SEQ5582	5.E-02	1.2
msAD	lnc-BORCS5-1:2	SEQ3820	4.E-02	1.2	FTD	lnc-SCRN3-5:1	SEQ3830	2.E-04	0.7
DLB	lnc-BPNT1-2:5	SEQ4510	2.E-03	1.5	msAD	lnc-SCRN3-5:1	SEQ3830	3.E-02	0.8
MCI	lnc-BRAT1-2:1	SEQ3709	1.E-04	2.0	All AD	lnc-SCRN3-5:1	SEQ3830	4.E-02	0.8
DLB	lnc-BRAT1-2:1	SEQ3709	1.E-03	1.6	FTD	lnc-SCRN3-7:1	SEQ5236	5.E-04	0.7
All AD	lnc-BRAT1-2:1	SEQ3709	3.E-02	1.3	MCI	lnc-SCTR-2:1	SEQ5676	3.E-05	2.4
msAD	lnc-BRAT1-2:1	SEQ3709	5.E-02	1.3	FTD	lnc-SCTR-2:1	SEQ5676	9.E-05	1.8
msAD	lnc-BRD1-7:1	SEQ3908	3.E-02	1.6	DLB	lnc-SCTR-2:1	SEQ5676	1.E-04	2.0
DLB	lnc-BRF1-12:1	SEQ4271	2.E-04	2.6	All AD	lnc-SDCBP-2:8	SEQ3720	4.E-02	0.8
msAD	lnc-BRF1-12:1	SEQ4271	8.E-04	1.9	msAD	lnc-SDCBP-2:8	SEQ3720	4.E-02	0.8
All AD	lnc-BRF1-12:1	SEQ4271	1.E-03	1.8	FTD	lnc-SDE2-1:15	SEQ5367	5.E-05	0.4
miAD	lnc-BRF1-12:1	SEQ4271	7.E-03	1.7	MCI	lnc-SDE2-1:15	SEQ5367	3.E-04	0.5
DLB	lnc-BRF2-2:1	SEQ5012	7.E-04	1.3	MCI	lnc-SDE2-1:5	SEQ5211	5.E-04	1.8
DLB	lnc-BRI3-2:1	SEQ4573	1.E-04	1.6	FTD	lnc-SEC22C-2:12	SEQ5469	3.E-04	0.6
MCI	lnc-BRI3-2:1	SEQ4573	2.E-03	1.5	All AD	lnc-SEC22C-2:12	SEQ5469	5.E-02	0.8

FTD	lnc-BST1-2:1	SEQ4736	7.E-04	0.7	DLB	lnc-SEC24A-2:2	SEQ4707	1.E-03	1.5
MCI	lnc-BST1-2:1	SEQ4736	1.E-03	0.6	miAD	lnc-SELENOP-5:1	SEQ5077	6.E-04	1.3
FTD	lnc-BTBD1-2:1	SEQ2683	4.E-04	0.7	All AD	lnc-SELENOP-5:1	SEQ5077	5.E-03	1.2
DLB	lnc-BTBD6-2:1	SEQ2709	2.E-05	1.7	FTD	lnc-SEMA4B-6:2	SEQ5588	2.E-04	0.5
FTD	lnc-BTD-2:1	SEQ5307	8.E-09	1.5	All AD	lnc-SEMA4D-5:3	SEQ5589	4.E-02	0.8
MCI	lnc-BTD-2:1	SEQ5307	4.E-04	1.3	FTD	lnc-SENP6-12:1	SEQ4188	5.E-06	0.5
All AD	lnc-BTN2A2-1:1	SEQ4230	9.E-03	0.7	miAD	lnc-SENP6-12:1	SEQ4188	1.E-02	0.7
msAD	lnc-BTN2A2-1:1	SEQ4230	1.E-02	0.7	All AD	lnc-SENP6-12:1	SEQ4188	2.E-02	0.7
FTD	lnc-BTNL8-7:1	SEQ4119	1.E-06	1.7	DLB	lnc-SENP8-2:1	SEQ3941	3.E-05	1.5
MCI	lnc-BTNL8-7:1	SEQ4119	1.E-05	2.0	MCI	lnc-SENP8-2:1	SEQ3941	1.E-03	1.4
DLB	lnc-BTNL8-7:1	SEQ4119	1.E-04	1.8	All AD	lnc-SENP8-2:1	SEQ3941	8.E-03	1.2
miAD	lnc-BTNL8-7:1	SEQ4119	1.E-02	1.2	miAD	lnc-SENP8-2:1	SEQ3941	1.E-02	1.2
All AD	lnc-BTNL8-7:1	SEQ4119	2.E-02	1.2	msAD	lnc-SENP8-2:1	SEQ3941	3.E-02	1.2
DLB	lnc-BYSL-2:1	SEQ3918	6.E-05	1.7	DLB	lnc-SEPT14-4:1	SEQ5254	5.E-04	1.5
MCI	lnc-BYSL-2:1	SEQ3918	4.E-04	1.6	DLB	lnc-SEPT3-4:1	SEQ4635	1.E-03	1.5
FTD	lnc-BYSL-2:1	SEQ3918	6.E-04	1.3	MCI	lnc-SERF1B-1:4	SEQ5583	9.E-05	2.4
All AD	lnc-BYSL-2:1	SEQ3918	2.E-02	1.2	DLB	lnc-SERF1B-1:4	SEQ5583	2.E-04	2.2
msAD	lnc-BYSL-2:1	SEQ3918	3.E-02	1.2	All AD	lnc-SERF1B-1:4	SEQ5583	5.E-02	1.2
DLB	lnc-BYSL-3:2	SEQ4613	1.E-03	1.3	MCI	lnc-SERHL2-1:11	SEQ3755	7.E-04	1.7
miAD	lnc-BZW1-1:1	SEQ4153	1.E-02	0.7	DLB	lnc-SERHL2-1:11	SEQ3755	2.E-03	1.7
All AD	lnc-BZW1-1:1	SEQ4153	4.E-02	0.8	All AD	lnc-SERHL2-1:11	SEQ3755	3.E-02	1.2
DLB	lnc-C11orf54-1:1	SEQ5712	1.E-04	2.1	msAD	lnc-SERHL2-1:11	SEQ3755	4.E-02	1.3
FTD	lnc-C11orf63-5:4	SEQ4816	1.E-03	1.4	MCI	lnc-SERHL2-1:6	SEQ4318	2.E-05	1.8
FTD	lnc-C12orf40-7:1	SEQ4278	3.E-06	0.5	DLB	lnc-SERHL2-1:6	SEQ4318	9.E-04	1.6
All AD	lnc-C12orf40-7:1	SEQ4278	2.E-04	0.6	FTD	lnc-SERHL2-1:6	SEQ4318	1.E-03	1.5
miAD	lnc-C12orf40-7:1	SEQ4278	3.E-04	0.5	All AD	lnc-SERHL2-1:6	SEQ4318	3.E-03	1.3
msAD	lnc-C12orf40-7:1	SEQ4278	2.E-03	0.6	msAD	lnc-SERHL2-1:6	SEQ4318	6.E-03	1.3
DLB	lnc-C12orf73-1:1	SEQ3349	2.E-05	1.5	miAD	lnc-SERHL2-1:6	SEQ4318	6.E-03	1.3
miAD	lnc-C13orf42-1:1	SEQ4110	1.E-02	0.7	FTD	lnc-SERHL2-1:7	SEQ4881	4.E-04	2.4
All AD	lnc-C13orf42-1:1	SEQ4110	3.E-02	0.7	MCI	lnc-SERHL2-1:7	SEQ4881	8.E-04	2.5
FTD	lnc-C14orf28-2:1	SEQ2528	6.E-05	0.5	DLB	lnc-SERHL2-1:7	SEQ4881	9.E-04	2.2
All AD	lnc-C14orf28-2:1	SEQ2528	2.E-02	0.7	MCI	lnc-SERHL2-1:8	SEQ0546	7.E-04	1.6
msAD	lnc-C14orf28-2:1	SEQ2528	5.E-02	0.7	All AD	lnc-SERHL2-1:8	SEQ0546	6.E-03	1.3
msAD	lnc-C14orf79-5:1	SEQ3897	3.E-02	1.2	msAD	lnc-SERHL2-1:8	SEQ0546	9.E-03	1.3
All AD	lnc-C14orf79-5:1	SEQ3897	4.E-02	1.2	MCI	lnc-SERHL2-4:2	SEQ4393	2.E-03	0.5
All AD	lnc-C15orf39-1:1	SEQ4281	2.E-02	0.8	MCI	lnc-SERHL2-4:4	SEQ4394	2.E-03	0.5
DLB	lnc-C16orf45-4:1	SEQ5312	4.E-04	1.4	miAD	lnc-SERHL2-8:1	SEQ4540	2.E-03	1.3
DLB	lnc-C17orf97-5:2	SEQ5523	2.E-04	1.4	All AD	lnc-SERHL2-8:1	SEQ4540	9.E-03	1.2
DLB	lnc-C19orf44-5:1	SEQ5788	6.E-05	1.5	FTD	lnc-SERINC1-3:1	SEQ5720	1.E-04	0.6
DLB	lnc-C19orf44-8:3	SEQ4697	1.E-03	1.5	MCI	lnc-SERP1-4:1	SEQ5692	2.E-05	1.4
All AD	lnc-C19orf57-6:6	SEQ4283	4.E-02	0.8	DLB	lnc-SERP1-4:1	SEQ5692	1.E-04	1.4
All AD	lnc-C19orf57-6:7	SEQ4284	3.E-02	0.8	All AD	lnc-SERPINA1-1:1	SEQ3844	2.E-02	0.7
FTD	lnc-C1orf186-6:1	SEQ6003	6.E-08	0.5	msAD	lnc-SERPINA1-1:1	SEQ3844	3.E-02	0.8

MCI	lnc-C1orf35-3:1	SEQ4052	8.E-05	1.7	FTD	lnc-SERPINA11-1:1	SEQ3698	1.E-04	2.0
DLB	lnc-C1orf35-3:1	SEQ4052	7.E-04	1.6	MCI	lnc-SERPINA11-1:1	SEQ3698	3.E-04	2.3
msAD	lnc-C1orf35-3:1	SEQ4052	2.E-02	1.2	msAD	lnc-SERPINA11-1:1	SEQ3698	5.E-02	1.2
All AD	lnc-C1orf35-3:1	SEQ4052	3.E-02	1.2	DLB	lnc-SERPINB1-1:10	SEQ5697	1.E-04	1.6
MCI	lnc-C1orf35-3:2	SEQ4274	4.E-05	1.7	DLB	lnc-SERPINF1-1:1	SEQ4683	1.E-03	1.4
DLB	lnc-C1orf35-3:2	SEQ4274	5.E-04	1.6	DLB	lnc-SERTAD2-1:3	SEQ5660	1.E-04	1.5
msAD	lnc-C1orf35-3:2	SEQ4274	8.E-03	1.3	msAD	lnc-SERTAD2-3:4	SEQ3883	3.E-02	1.5
All AD	lnc-C1orf35-3:2	SEQ4274	2.E-02	1.2	FTD	lnc-SETD7-3:3	SEQ5235	5.E-04	0.7
DLB	lnc-C1QBP-1:1	SEQ3351	8.E-04	1.5	DLB	lnc-SFMBT2-3:1	SEQ5024	7.E-04	1.5
FTD	lnc-C1QTNF1-9:1	SEQ3652	3.E-04	0.6	DLB	lnc-SFPQ-2:1	SEQ0169	1.E-03	1.5
All AD	lnc-C1QTNF1-9:1	SEQ3652	2.E-02	0.7	FTD	lnc-SFPQ-2:2	SEQ5549	2.E-04	0.6
msAD	lnc-C1QTNF1-9:1	SEQ3652	5.E-02	0.8	DLB	lnc-SFPQ-2:4	SEQ4721	1.E-03	1.8
DLB	lnc-C1QTNF8-4:1	SEQ5257	5.E-04	1.5	miAD	lnc-SFRP4-3:1	SEQ4187	1.E-02	0.7
FTD	lnc-C1R-1:1	SEQ4288	2.E-06	0.5	All AD	lnc-SFRP4-3:1	SEQ4187	1.E-02	0.7
All AD	lnc-C1R-1:1	SEQ4288	2.E-02	0.7	FTD	lnc-SFRP4-3:3	SEQ4215	4.E-04	0.6
FTD	lnc-C20orf196-4:1	SEQ4290	4.E-04	0.6	All AD	lnc-SFRP4-3:3	SEQ4215	4.E-03	0.7
All AD	lnc-C20orf196-4:1	SEQ4290	5.E-02	0.7	msAD	lnc-SFRP4-3:3	SEQ4215	9.E-03	0.7
msAD	lnc-C20orf85-3:1	SEQ3946	3.E-02	0.8	miAD	lnc-SFRP4-3:3	SEQ4215	1.E-02	0.6
All AD	lnc-C20orf85-3:1	SEQ3946	3.E-02	0.8	DLB	lnc-SGCA-4:2	SEQ5566	2.E-04	1.6
DLB	lnc-C20orf96-1:1	SEQ2764	3.E-05	1.5	DLB	lnc-SGSM3-6:1	SEQ4748	1.E-03	1.4
DLB	lnc-C21orf58-1:2	SEQ0033	2.E-04	1.7	FTD	lnc-SGTB-5:1	SEQ4353	1.E-04	0.6
DLB	lnc-C21orf58-1:5	SEQ5207	5.E-04	1.7	miAD	lnc-SGTB-5:1	SEQ4353	4.E-03	0.6
All AD	lnc-C21orf58-1:8	SEQ4293	4.E-02	1.4	All AD	lnc-SGTB-5:1	SEQ4353	2.E-02	0.7
All AD	lnc-C5orf56-3:1	SEQ4294	3.E-02	0.8	MCI	lnc-SH2D7-3:1	SEQ5864	7.E-06	2.1
miAD	lnc-C6orf132-5:1	SEQ4197	7.E-04	1.4	DLB	lnc-SH2D7-3:1	SEQ5864	4.E-05	2.1
All AD	lnc-C6orf132-5:1	SEQ4197	1.E-03	1.4	FTD	lnc-SH3BGRL-1:1	SEQ5743	9.E-05	0.6
msAD	lnc-C6orf132-5:1	SEQ4197	1.E-02	1.3	DLB	lnc-SH3GL1-1:1	SEQ5375	3.E-04	1.5
FTD	lnc-C6orf201-6:2	SEQ5871	3.E-05	0.5	FTD	lnc-SH3KBP1-1:1	SEQ5090	6.E-04	0.7
FTD	lnc-C6orf222-4:2	SEQ4297	4.E-04	0.7	miAD	lnc-SHANK2-1:7	SEQ4349	5.E-03	0.7
miAD	lnc-C6orf222-4:2	SEQ4297	4.E-03	0.6	All AD	lnc-SHANK2-1:7	SEQ4349	9.E-03	0.8
All AD	lnc-C6orf222-4:2	SEQ4297	1.E-02	0.7	FTD	lnc-SHANK2-5:1	SEQ4366	8.E-07	0.5
FTD	lnc-C6orf62-1:1	SEQ3990	4.E-07	0.5	All AD	lnc-SHANK2-5:1	SEQ4366	9.E-04	0.7
MCI	lnc-C6orf62-1:1	SEQ3990	8.E-04	0.6	miAD	lnc-SHANK2-5:1	SEQ4366	1.E-03	0.7
All AD	lnc-C6orf62-1:1	SEQ3990	8.E-03	0.7	msAD	lnc-SHANK2-5:1	SEQ4366	4.E-03	0.7
miAD	lnc-C6orf62-1:1	SEQ3990	1.E-02	0.6	DLB	lnc-SHISA5-2:1	SEQ4926	8.E-04	1.4
msAD	lnc-C6orf62-1:1	SEQ3990	2.E-02	0.7	FTD	lnc-SHOC2-1:2	SEQ4604	1.E-05	0.6
All AD	lnc-C9orf3-6:1	SEQ4302	3.E-02	0.8	MCI	lnc-SHOC2-1:2	SEQ4604	1.E-03	0.7
All AD	lnc-CA4-2:1	SEQ4303	2.E-02	0.8	miAD	lnc-SHOC2-1:2	SEQ4604	1.E-03	0.7
DLB	lnc-CA6-8:1	SEQ2536	2.E-04	1.4	All AD	lnc-SHOC2-1:2	SEQ4604	9.E-03	0.7
miAD	lnc-CA6-8:1	SEQ2536	2.E-04	1.3	FTD	lnc-SHOC2-3:1	SEQ5833	5.E-05	0.6
All AD	lnc-CA6-8:1	SEQ2536	2.E-04	1.2	FTD	lnc-SHOC2-3:2	SEQ5985	2.E-06	0.6
msAD	lnc-CA6-8:1	SEQ2536	2.E-03	1.2	FTD	lnc-SHOX2-8:1	SEQ5290	4.E-04	0.6

DLB	lnc-CA6-8:2	SEQ2380	4.E-06	1.6	DLB	lnc-SIKE1-2:2	SEQ5110	6.E-04	1.4
FTD	lnc-CA6-8:2	SEQ2380	4.E-05	1.3	DLB	lnc-SIPA1-2:1	SEQ5438	3.E-04	1.5
MCI	lnc-CA6-8:2	SEQ2380	4.E-05	1.5	FTD	lnc-SIPA1L1-2:13	SEQ5681	1.E-04	0.5
msAD	lnc-CA6-8:2	SEQ2380	2.E-04	1.2	FTD	lnc-SIPA1L1-2:8	SEQ5856	4.E-05	0.5
All AD	lnc-CA6-8:2	SEQ2380	5.E-04	1.2	DLB	lnc-SIPA1L3-4:2	SEQ4764	2.E-04	1.5
miAD	lnc-CA6-8:2	SEQ2380	6.E-03	1.2	MCI	lnc-SIPA1L3-4:2	SEQ4764	1.E-03	1.5
FTD	lnc-CACNB2-1:1	SEQ2386	5.E-04	0.6	miAD	lnc-SIRPG-5:3	SEQ4357	4.E-03	0.7
FTD	lnc-CACNG1-1:2	SEQ5592	2.E-04	0.6	All AD	lnc-SIRPG-5:3	SEQ4357	3.E-02	0.8
FTD	lnc-CALCB-4:1	SEQ5939	1.E-05	0.6	DLB	lnc-SIVA1-1:1	SEQ5249	5.E-04	1.5
DLB	lnc-CALHM1-1:3	SEQ3992	1.E-03	1.5	FTD	lnc-SKIL-4:1	SEQ3966	8.E-06	0.4
All AD	lnc-CALHM1-1:3	SEQ3992	2.E-02	1.2	MCI	lnc-SKIL-4:1	SEQ3966	6.E-04	0.4
msAD	lnc-CALHM1-1:3	SEQ3992	2.E-02	1.2	All AD	lnc-SKIL-4:1	SEQ3966	7.E-03	0.6
DLB	lnc-CAMK2D-1:1	SEQ4309	2.E-03	2.0	miAD	lnc-SKIL-4:1	SEQ3966	9.E-03	0.6
All AD	lnc-CAMK2D-1:1	SEQ4309	4.E-02	1.3	msAD	lnc-SKIL-4:1	SEQ3966	2.E-02	0.6
FTD	lnc-CAND2-2:2	SEQ5507	2.E-04	0.3	DLB	lnc-SKIV2L2-1:2	SEQ4745	1.E-03	1.4
FTD	lnc-CAND2-2:4	SEQ5098	2.E-04	0.2	DLB	lnc-SLA2-1:1	SEQ3570	2.E-03	1.4
MCI	lnc-CAND2-2:4	SEQ5098	6.E-04	0.2	FTD	lnc-SLAMF7-2:13	SEQ5719	1.E-04	0.6
MCI	lnc-CARD14-1:1	SEQ4701	1.E-03	1.5	DLB	lnc-SLC10A1-1:1	SEQ5022	7.E-04	1.4
MCI	lnc-CASC1-1:1	SEQ4548	2.E-03	0.6	DLB	lnc-SLC11A2-8:1	SEQ4443	1.E-04	1.7
FTD	lnc-CASC1-2:1	SEQ4146	3.E-04	0.5	MCI	lnc-SLC11A2-8:1	SEQ4443	2.E-03	1.6
miAD	lnc-CASC1-2:1	SEQ4146	1.E-02	0.6	FTD	lnc-SLC12A6-1:1	SEQ4113	1.E-06	0.6
All AD	lnc-CASC1-2:1	SEQ4146	2.E-02	0.7	miAD	lnc-SLC12A6-1:1	SEQ4113	1.E-02	0.7
FTD	lnc-CASC1-3:1	SEQ4315	1.E-05	0.6	All AD	lnc-SLC12A6-1:1	SEQ4113	4.E-02	0.7
miAD	lnc-CASC1-3:1	SEQ4315	4.E-03	0.7	FTD	lnc-SLC12A8-3:1	SEQ5629	6.E-06	0.5
All AD	lnc-CASC1-3:1	SEQ4315	1.E-02	0.8	All AD	lnc-SLC12A8-3:1	SEQ5629	3.E-02	0.7
FTD	lnc-CASP10-1:3	SEQ4317	3.E-05	0.6	DLB	lnc-SLC15A3-2:1	SEQ5708	9.E-05	1.9
All AD	lnc-CASP10-1:3	SEQ4317	3.E-02	0.8	MCI	lnc-SLC15A3-2:1	SEQ5708	1.E-04	1.8
DLB	lnc-CASTOR2-1:1	SEQ4415	2.E-03	1.4	DLB	lnc-SLC16A11-7:11	SEQ4711	1.E-03	1.5
DLB	lnc-CATSPERB-1:1	SEQ4695	1.E-03	1.4	FTD	lnc-SLC16A3-7:1	SEQ5963	5.E-06	0.5
FTD	lnc-CAV2-2:1	SEQ5984	2.E-06	0.5	All AD	lnc-SLC16A3-8:1	SEQ3859	8.E-03	0.7
FTD	lnc-CAVIN2-1:1	SEQ4219	1.E-07	0.5	miAD	lnc-SLC16A3-8:1	SEQ3859	9.E-03	0.7
miAD	lnc-CAVIN2-1:1	SEQ4219	2.E-03	0.6	msAD	lnc-SLC16A3-8:1	SEQ3859	3.E-02	0.7
All AD	lnc-CAVIN2-1:1	SEQ4219	2.E-03	0.7	FTD	lnc-SLC1A3-1:1	SEQ0547	2.E-07	0.5
msAD	lnc-CAVIN2-1:1	SEQ4219	1.E-02	0.7	MCI	lnc-SLC1A3-1:1	SEQ0547	5.E-04	0.6
DLB	lnc-CBARP-6:1	SEQ5560	2.E-04	1.5	All AD	lnc-SLC1A3-1:1	SEQ0547	2.E-02	0.7
FTD	lnc-CBR3-2:2	SEQ5972	2.E-06	0.5	miAD	lnc-SLC22A1-2:1	SEQ4277	8.E-03	0.7
MCI	lnc-CBR3-2:2	SEQ5972	3.E-06	0.5	All AD	lnc-SLC22A1-2:1	SEQ4277	1.E-02	0.8
DLB	lnc-CBS-2:1	SEQ5386	3.E-04	1.7	miAD	lnc-SLC22A1-3:2	SEQ4114	1.E-02	0.7
miAD	lnc-CBWD5-1:1	SEQ3662	5.E-03	0.6	All AD	lnc-SLC22A1-3:2	SEQ4114	3.E-02	0.8
All AD	lnc-CBWD5-1:1	SEQ3662	8.E-03	0.7	All AD	lnc-SLC22A2-1:1	SEQ5638	5.E-02	0.8
msAD	lnc-CBWD5-1:1	SEQ3662	5.E-02	0.7	miAD	lnc-SLC22A2-3:1	SEQ4286	7.E-03	0.7
All AD	lnc-CBX6-2:1	SEQ3911	8.E-03	0.7	All AD	lnc-SLC22A2-3:1	SEQ4286	1.E-02	0.7
miAD	lnc-CBX6-2:1	SEQ3911	9.E-03	0.7	DLB	lnc-SLC22A31-2:1	SEQ4490	1.E-03	1.4

msAD	lnc-CBX6-2:1	SEQ3911	3.E-02	0.7	MCI	lnc-SLC22A31-2:1	SEQ4490	2.E-03	1.4
DLB	lnc-CCDC146-1:12	SEQ4553	2.E-03	1.3	DLB	lnc-SLC22A31-4:1	SEQ5559	2.E-04	1.4
FTD	lnc-CCDC146-2:1	SEQ5407	3.E-04	0.6	FTD	lnc-SLC25A3-7:1	SEQ2447	2.E-07	0.5
FTD	lnc-CCDC150-3:1	SEQ4325	1.E-06	0.6	MCI	lnc-SLC25A3-7:1	SEQ2447	2.E-05	0.6
All AD	lnc-CCDC150-3:1	SEQ4325	4.E-02	0.8	All AD	lnc-SLC25A3-7:1	SEQ2447	4.E-03	0.7
FTD	lnc-CCDC150-4:1	SEQ5948	8.E-06	0.6	miAD	lnc-SLC25A3-7:1	SEQ2447	5.E-03	0.7
DLB	lnc-CCDC150-7:1	SEQ5217	3.E-04	2.2	msAD	lnc-SLC25A3-7:1	SEQ2447	1.E-02	0.7
MCI	lnc-CCDC150-7:1	SEQ5217	5.E-04	2.0	DLB	lnc-SLC25A39-2:1	SEQ5393	4.E-05	0.2
FTD	lnc-CCDC17-1:1	SEQ5415	3.E-04	0.7	MCI	lnc-SLC25A39-2:1	SEQ5393	3.E-04	0.2
DLB	lnc-CCDC173-6:1	SEQ4524	2.E-03	1.6	FTD	lnc-SLC25A39-2:1	SEQ5393	3.E-04	0.2
FTD	lnc-CCDC175-2:1	SEQ4894	9.E-04	0.6	DLB	lnc-SLC25A51-1:2	SEQ4740	1.E-03	1.4
DLB	lnc-CCDC22-1:1	SEQ4414	2.E-03	1.4	DLB	lnc-SLC25A6-4:1	SEQ3114	2.E-04	1.6
DLB	lnc-CCDC54-6:4	SEQ5385	3.E-04	1.7	MCI	lnc-SLC25A6-4:1	SEQ3114	8.E-04	1.5
FTD	lnc-CCDC68-1:1	SEQ5424	7.E-07	0.4	msAD	lnc-SLC25A6-4:1	SEQ3114	3.E-02	1.2
MCI	lnc-CCDC68-1:1	SEQ5424	3.E-04	0.5	MCI	lnc-SLC27A5-2:1	SEQ4504	6.E-04	1.5
DLB	lnc-CCDC69-1:1	SEQ5374	3.E-04	1.5	DLB	lnc-SLC27A5-2:1	SEQ4504	2.E-03	1.4
FTD	lnc-CCDC7-1:6	SEQ3656	1.E-05	2.1	DLB	lnc-SLC27A5-3:2	SEQ4552	4.E-05	1.4
MCI	lnc-CCDC7-1:6	SEQ3656	8.E-05	2.1	MCI	lnc-SLC27A5-3:2	SEQ4552	2.E-03	1.3
DLB	lnc-CCDC7-1:6	SEQ3656	2.E-04	1.8	FTD	lnc-SLC2A13-2:3	SEQ4541	6.E-08	0.4
All AD	lnc-CCDC7-1:6	SEQ3656	2.E-02	1.3	MCI	lnc-SLC2A13-2:3	SEQ4541	6.E-05	0.4
msAD	lnc-CCDC7-1:6	SEQ3656	5.E-02	1.3	All AD	lnc-SLC2A13-2:3	SEQ4541	4.E-04	0.5
FTD	lnc-CCDC71L-1:13	SEQ4331	8.E-05	0.5	msAD	lnc-SLC2A13-2:3	SEQ4541	9.E-04	0.5
All AD	lnc-CCDC71L-1:13	SEQ4331	3.E-02	0.7	miAD	lnc-SLC2A13-2:3	SEQ4541	2.E-03	0.5
FTD	lnc-CCDC71L-1:14	SEQ4332	8.E-05	0.5	DLB	lnc-SLC2A9-3:1	SEQ5173	5.E-04	1.3
All AD	lnc-CCDC71L-1:14	SEQ4332	2.E-02	0.7	DLB	lnc-SLC30A5-6:1	SEQ4050	3.E-04	1.5
DLB	lnc-CCDC74A-1:3	SEQ3824	2.E-05	1.9	MCI	lnc-SLC30A5-6:1	SEQ4050	4.E-04	1.4
MCI	lnc-CCDC74A-1:3	SEQ3824	5.E-04	1.6	miAD	lnc-SLC30A5-6:1	SEQ4050	2.E-03	1.2
msAD	lnc-CCDC74A-1:3	SEQ3824	4.E-02	1.2	All AD	lnc-SLC30A5-6:1	SEQ4050	2.E-03	1.2
MCI	lnc-CCDC78-4:1	SEQ5880	3.E-05	1.7	msAD	lnc-SLC30A5-6:1	SEQ4050	2.E-02	1.2
FTD	lnc-CCDC83-1:1	SEQ4001	8.E-07	0.5	FTD	lnc-SLC35E3-7:1	SEQ5993	1.E-06	0.6
miAD	lnc-CCDC83-1:1	SEQ4001	2.E-03	0.6	DLB	lnc-SLC35E3-8:1	SEQ5769	2.E-07	0.3
All AD	lnc-CCDC83-1:1	SEQ4001	3.E-03	0.6	MCI	lnc-SLC35E3-8:1	SEQ5769	2.E-06	0.2
msAD	lnc-CCDC83-1:1	SEQ4001	2.E-02	0.7	FTD	lnc-SLC35E3-8:1	SEQ5769	7.E-05	0.2
FTD	lnc-CCDC85C-2:1	SEQ2601	3.E-04	0.7	FTD	lnc-SLC35E3-8:2	SEQ4267	8.E-07	0.4
FTD	lnc-CCNB1IP1-1:2	SEQ0903	1.E-07	1.8	All AD	lnc-SLC35E3-8:2	SEQ4267	3.E-03	0.5
MCI	lnc-CCNB1IP1-1:2	SEQ0903	4.E-05	1.7	msAD	lnc-SLC35E3-8:2	SEQ4267	7.E-03	0.6
DLB	lnc-CCNB1IP1-1:2	SEQ0903	2.E-04	1.5	miAD	lnc-SLC35E3-8:2	SEQ4267	8.E-03	0.5
FTD	lnc-CCNB1IP1-1:3	SEQ4026	4.E-08	0.5	DLB	lnc-SLC35F5-3:11	SEQ2639	1.E-04	1.3
DLB	lnc-CCNB1IP1-1:3	SEQ4026	4.E-05	0.6	MCI	lnc-SLC35F5-3:11	SEQ2639	5.E-04	1.2
MCI	lnc-CCNB1IP1-1:3	SEQ4026	2.E-04	0.6	MCI	lnc-SLC35G3-1:3	SEQ3900	1.E-04	2.9
All AD	lnc-CCNB1IP1-1:3	SEQ4026	6.E-03	0.7	DLB	lnc-SLC35G3-1:3	SEQ3900	6.E-04	2.5
miAD	lnc-CCNB1IP1-1:3	SEQ4026	1.E-02	0.7	All AD	lnc-SLC35G3-1:3	SEQ3900	1.E-02	1.5
msAD	lnc-CCNB1IP1-1:3	SEQ4026	2.E-02	0.7	msAD	lnc-SLC35G3-1:3	SEQ3900	3.E-02	1.5

FTD	lnc-CCNB1IP1-1:4	SEQ5261	1.E-07	1.9	DLB	lnc-SLC37A2-2:1	SEQ2906	2.E-04	1.5
MCI	lnc-CCNB1IP1-1:4	SEQ5261	3.E-05	1.7	DLB	lnc-SLC38A3-1:1	SEQ4724	6.E-05	2.3
DLB	lnc-CCNB1IP1-1:4	SEQ5261	5.E-04	1.5	MCI	lnc-SLC38A3-1:1	SEQ4724	1.E-03	1.9
FTD	lnc-CCNB1IP1-1:5	SEQ4027	2.E-08	0.5	FTD	lnc-SLC39A10-10:1	SEQ3806	6.E-08	1.7
DLB	lnc-CCNB1IP1-1:5	SEQ4027	4.E-05	0.6	MCI	lnc-SLC39A10-10:1	SEQ3806	4.E-06	1.8
MCI	lnc-CCNB1IP1-1:5	SEQ4027	2.E-04	0.6	DLB	lnc-SLC39A10-10:1	SEQ3806	5.E-05	1.6
All AD	lnc-CCNB1IP1-1:5	SEQ4027	7.E-03	0.7	miAD	lnc-SLC39A10-10:1	SEQ3806	2.E-03	1.3
miAD	lnc-CCNB1IP1-1:5	SEQ4027	1.E-02	0.7	All AD	lnc-SLC39A10-10:1	SEQ3806	4.E-03	1.2
msAD	lnc-CCNB1IP1-1:5	SEQ4027	2.E-02	0.7	msAD	lnc-SLC39A10-10:1	SEQ3806	4.E-02	1.2
FTD	lnc-CCNYL1-2:1	SEQ5810	1.E-06	0.3	FTD	lnc-SLC39A10-3:1	SEQ3934	1.E-08	0.5
MCI	lnc-CCNYL1-2:1	SEQ5810	5.E-05	0.3	MCI	lnc-SLC39A10-3:1	SEQ3934	4.E-04	0.7
FTD	lnc-CCNYL1-2:2	SEQ4344	2.E-05	0.6	All AD	lnc-SLC39A10-3:1	SEQ3934	1.E-02	0.7
All AD	lnc-CCNYL1-2:2	SEQ4344	3.E-02	0.7	msAD	lnc-SLC39A10-3:1	SEQ3934	3.E-02	0.7
DLB	lnc-CCT4-1:8	SEQ3356	2.E-03	1.9	miAD	lnc-SLC45A1-1:7	SEQ4103	1.E-02	0.6
miAD	lnc-CCT8-6:4	SEQ4292	7.E-03	0.6	All AD	lnc-SLC45A1-1:7	SEQ4103	3.E-02	0.7
All AD	lnc-CCT8-6:4	SEQ4292	2.E-02	0.6	All AD	lnc-SLC48A1-1:8	SEQ3648	2.E-02	0.7
miAD	lnc-CD300C-2:1	SEQ4256	9.E-03	0.5	msAD	lnc-SLC48A1-1:8	SEQ3648	5.E-02	0.7
All AD	lnc-CD300C-2:1	SEQ4256	2.E-02	0.5	DLB	lnc-SLC4A11-1:1	SEQ5515	2.E-04	1.4
DLB	lnc-CD3D-3:1	SEQ4140	6.E-04	1.8	DLB	lnc-SLC6A18-2:1	SEQ4175	8.E-05	2.5
MCI	lnc-CD3D-3:1	SEQ4140	7.E-04	1.6	All AD	lnc-SLC6A18-2:1	SEQ4175	8.E-03	1.4
miAD	lnc-CD3D-3:1	SEQ4140	1.E-02	1.2	msAD	lnc-SLC6A18-2:1	SEQ4175	1.E-02	1.5
FTD	lnc-CD47-8:1	SEQ5884	3.E-05	0.5	DLB	lnc-SLC6A9-6:1	SEQ5663	1.E-04	1.7
FTD	lnc-CD53-1:1	SEQ5092	6.E-04	0.7	All AD	lnc-SLC6A9-6:1	SEQ5663	4.E-02	1.2
DLB	lnc-CDC42-2:1	SEQ4880	9.E-04	2.2	DLB	lnc-SLC9A3-1:3	SEQ5148	6.E-04	2.1
DLB	lnc-CDC42BPB-4:3	SEQ4486	2.E-03	1.4	All AD	lnc-SLC9A3-1:3	SEQ5148	4.E-02	1.3
DLB	lnc-CDC42SE2-1:10	SEQ2613	1.E-04	1.6	DLB	lnc-SLC9A6-1:2	SEQ4755	2.E-04	1.5
MCI	lnc-CDC42SE2-1:10	SEQ2613	7.E-04	1.5	MCI	lnc-SLC9A6-1:2	SEQ4755	1.E-03	1.4
DLB	lnc-CDC42SE2-1:3	SEQ4652	1.E-04	2.1	All AD	lnc-SLC9A8-3:4	SEQ5665	2.E-02	0.6
MCI	lnc-CDC42SE2-1:3	SEQ4652	1.E-03	1.8	miAD	lnc-SLC9A8-3:5	SEQ4190	1.E-02	0.7
FTD	lnc-CDC73-5:1	SEQ5969	4.E-06	0.6	FTD	lnc-SLCO4C1-5:1	SEQ3971	8.E-08	0.4
DLB	lnc-CDC73-6:2	SEQ4609	1.E-03	1.3	miAD	lnc-SLCO4C1-5:1	SEQ3971	5.E-04	0.5
miAD	lnc-CDCA2-4:1	SEQ3166	7.E-03	0.7	MCI	lnc-SLCO4C1-5:1	SEQ3971	9.E-04	0.5
All AD	lnc-CDCA2-4:1	SEQ3166	2.E-02	0.7	All AD	lnc-SLCO4C1-5:1	SEQ3971	2.E-03	0.6
FTD	lnc-CDH26-9:1	SEQ5746	9.E-05	0.7	msAD	lnc-SLCO4C1-5:1	SEQ3971	2.E-02	0.6
All AD	lnc-CDHR3-7:1	SEQ4352	5.E-02	0.7	FTD	lnc-SLCO6A1-3:1	SEQ5678	1.E-04	0.4
DLB	lnc-CDIPT-1:11	SEQ3359	2.E-03	1.4	FTD	lnc-SLF1-4:2	SEQ4985	8.E-06	0.5
msAD	lnc-CDIPT-1:9	SEQ3716	4.E-02	1.2	miAD	lnc-SLF1-4:2	SEQ4985	8.E-04	0.5
FTD	lnc-CDIPT-2:1	SEQ4354	8.E-08	1.5	All AD	lnc-SLF1-4:2	SEQ4985	5.E-03	0.6
DLB	lnc-CDIPT-2:1	SEQ4354	2.E-07	1.9	FTD	lnc-SLF1-7:1	SEQ3722	1.E-03	0.6
MCI	lnc-CDIPT-2:1	SEQ4354	6.E-07	1.7	All AD	lnc-SLF1-7:1	SEQ3722	1.E-02	0.8
All AD	lnc-CDIPT-2:1	SEQ4354	1.E-04	1.3	miAD	lnc-SLF1-7:1	SEQ3722	1.E-02	0.7

msAD	lnc-CDIPT-2:1	SEQ4354	2.E-04	1.3	msAD	lnc-SLF1-7:1	SEQ3722	4.E-02	0.8
miAD	lnc-CDIPT-2:1	SEQ4354	8.E-04	1.3	DLB	lnc-SLFN12-1:1	SEQ5272	5.E-04	1.7
DLB	lnc-CDIPT-3:1	SEQ3833	3.E-05	1.6	DLB	lnc-SLFN14-2:1	SEQ4717	2.E-04	1.9
MCI	lnc-CDIPT-3:1	SEQ3833	8.E-05	1.5	MCI	lnc-SLFN14-2:1	SEQ4717	1.E-03	1.7
All AD	lnc-CDIPT-3:1	SEQ3833	1.E-02	1.2	FTD	lnc-SLTM-1:2	SEQ0982	2.E-05	0.5
msAD	lnc-CDIPT-3:1	SEQ3833	3.E-02	1.2	MCI	lnc-SLTM-1:2	SEQ0982	3.E-04	0.6
FTD	lnc-CDK19-4:1	SEQ4090	7.E-05	0.6	All AD	lnc-SLTM-1:2	SEQ0982	5.E-02	0.8
miAD	lnc-CDK19-4:1	SEQ4090	2.E-03	0.6	MCI	lnc-SMARCC2-3:2	SEQ4314	6.E-06	1.7
All AD	lnc-CDK19-4:1	SEQ4090	3.E-03	0.7	DLB	lnc-SMARCC2-3:2	SEQ4314	3.E-05	1.6
msAD	lnc-CDK19-4:1	SEQ4090	1.E-02	0.8	FTD	lnc-SMARCC2-3:2	SEQ4314	1.E-04	1.5
FTD	lnc-CDK2AP1-1:10	SEQ4667	1.E-05	0.4	All AD	lnc-SMARCC2-3:2	SEQ4314	3.E-03	1.2
MCI	lnc-CDK2AP1-1:10	SEQ4667	1.E-03	0.5	msAD	lnc-SMARCC2-3:2	SEQ4314	6.E-03	1.3
DLB	lnc-CDK2AP1-1:9	SEQ3361	1.E-03	1.4	miAD	lnc-SMARCC2-3:2	SEQ4314	7.E-03	1.2
FTD	lnc-CDNF-2:3	SEQ4361	2.E-06	0.4	DLB	lnc-SMARCC2-9:1	SEQ4833	9.E-04	1.4
MCI	lnc-CDNF-2:3	SEQ4361	5.E-04	0.6	MCI	lnc-SMC5-6:1	SEQ2686	4.E-04	2.0
All AD	lnc-CDNF-2:3	SEQ4361	4.E-02	0.7	FTD	lnc-SMCO1-2:2	SEQ5398	3.E-04	0.6
DLB	lnc-CDPF1-2:1	SEQ4059	5.E-04	1.5	All AD	lnc-SMCO1-2:2	SEQ5398	2.E-02	0.7
msAD	lnc-CDPF1-2:1	SEQ4059	2.E-02	1.3	MCI	lnc-SMCO4-3:1	SEQ4543	2.E-03	0.6
All AD	lnc-CDPF1-2:1	SEQ4059	4.E-02	1.2	DLB	lnc-SMCR8-1:1	SEQ4498	8.E-05	1.5
msAD	lnc-CDR2-1:4	SEQ3808	4.E-02	1.3	MCI	lnc-SMCR8-1:1	SEQ4498	2.E-03	1.4
DLB	lnc-CDR2-4:2	SEQ5484	2.E-04	1.5	FTD	lnc-SMG1-3:1	SEQ3506	3.E-04	0.7
DLB	lnc-CDS2-2:1	SEQ4741	1.E-04	1.5	MCI	lnc-SMIM11B-11:1	SEQ3891	6.E-07	2.8
MCI	lnc-CDS2-2:1	SEQ4741	1.E-03	1.4	DLB	lnc-SMIM11B-11:1	SEQ3891	1.E-06	2.5
FTD	lnc-CEACAM20-2:5	SEQ5360	4.E-04	0.7	FTD	lnc-SMIM11B-11:1	SEQ3891	2.E-05	2.2
MCI	lnc-CEBPB-13:10	SEQ4547	2.E-03	0.6	All AD	lnc-SMIM11B-11:1	SEQ3891	9.E-03	1.4
DLB	lnc-CEL-5:2	SEQ3132	1.E-03	1.7	miAD	lnc-SMIM11B-11:1	SEQ3891	1.E-02	1.4
MCI	lnc-CEMP1-1:1	SEQ5146	3.E-04	2.1	msAD	lnc-SMIM11B-11:1	SEQ3891	3.E-02	1.3
DLB	lnc-CEMP1-1:1	SEQ5146	6.E-04	1.9	miAD	lnc-SMIM13-5:1	SEQ4279	8.E-03	0.8
MCI	lnc-CEMP1-1:2	SEQ5799	6.E-05	2.0	All AD	lnc-SMIM13-5:1	SEQ4279	2.E-02	0.8
DLB	lnc-CEMP1-1:6	SEQ4620	1.E-03	1.4	msAD	lnc-SMTNL2-4:1	SEQ3997	2.E-02	2.6
DLB	lnc-CEMP1-1:7	SEQ4876	9.E-04	2.0	All AD	lnc-SMTNL2-4:1	SEQ3997	3.E-02	2.2
DLB	lnc-CEMP1-10:1	SEQ4839	9.E-04	1.4	DLB	lnc-SNAP47-2:1	SEQ5143	2.E-04	2.1
DLB	lnc-CEMP1-5:1	SEQ3365	4.E-05	1.6	MCI	lnc-SNAP47-2:1	SEQ5143	6.E-04	1.8
MCI	lnc-CEMP1-5:1	SEQ3365	6.E-04	1.6	FTD	lnc-SNAPC1-4:1	SEQ5682	3.E-07	0.5
All AD	lnc-CENPB-3:1	SEQ4367	3.E-02	0.7	All AD	lnc-SNAPC1-4:1	SEQ5682	5.E-02	0.7
All AD	lnc-CENPB-3:2	SEQ4368	3.E-02	0.7	DLB	lnc-SNAPC2-2:3	SEQ4933	5.E-04	1.5
DLB	lnc-CENPBD1-2:8	SEQ4696	3.E-04	1.5	MCI	lnc-SNAPC2-2:3	SEQ4933	8.E-04	1.4
MCI	lnc-CENPBD1-2:8	SEQ4696	1.E-03	1.4	DLB	lnc-SNAPC5-1:2	SEQ3920	5.E-04	1.6
FTD	lnc-CENPT-1:5	SEQ4369	3.E-07	2.3	msAD	lnc-SNAPC5-1:2	SEQ3920	3.E-02	1.3
MCI	lnc-CENPT-1:5	SEQ4369	4.E-06	2.5	All AD	lnc-SNAPC5-1:2	SEQ3920	4.E-02	1.2
DLB	lnc-CENPT-1:5	SEQ4369	1.E-05	2.0	MCI	lnc-SNF8-1:3	SEQ5169	5.E-04	0.8

All AD	lnc-CENPT-1:5	SEQ4369	9.E-04	1.3	msAD	lnc-SNPH-5:1	SEQ4233	1.E-02	2.4
msAD	lnc-CENPT-1:5	SEQ4369	2.E-03	1.3	All AD	lnc-SNPH-5:1	SEQ4233	3.E-02	1.7
miAD	lnc-CENPT-1:5	SEQ4369	2.E-03	1.3	FTD	lnc-SNPH-6:5	SEQ4544	3.E-06	0.6
MCI	lnc-CENPT-1:6	SEQ5048	2.E-04	1.8	MCI	lnc-SNPH-6:5	SEQ4544	2.E-03	0.6
DLB	lnc-CENPT-1:6	SEQ5048	7.E-04	1.8	DLB	lnc-SNRPC-2:6	SEQ3685	7.E-06	2.0
All AD	lnc-CENPU-1:1	SEQ4373	3.E-02	0.7	MCI	lnc-SNRPC-2:6	SEQ3685	2.E-05	1.8
DLB	lnc-CENPVL2-3:1	SEQ2389	2.E-03	1.6	FTD	lnc-SNRPC-2:6	SEQ3685	2.E-04	1.6
DLB	lnc-CEP19-1:2	SEQ5673	1.E-04	1.7	All AD	lnc-SNRPC-2:6	SEQ3685	1.E-02	1.2
All AD	lnc-CEP350-3:4	SEQ4375	4.E-02	0.8	msAD	lnc-SNRPC-2:6	SEQ3685	5.E-02	1.2
FTD	lnc-CEP83-7:1	SEQ3010	5.E-04	0.6	FTD	lnc-SNRPN-8:18	SEQ5060	7.E-04	0.6
FTD	lnc-CERKL-7:1	SEQ5970	4.E-06	0.6	MCI	lnc-SNRPN-8:44	SEQ4445	2.E-03	1.6
DLB	lnc-CETP-2:2	SEQ5324	4.E-04	1.6	DLB	lnc-SNRPN-8:44	SEQ4445	2.E-03	1.8
FTD	lnc-CFAP36-3:10	SEQ5826	5.E-05	0.4	MCI	lnc-SNRPN-8:7	SEQ5640	2.E-04	2.8
FTD	lnc-CFAP36-3:2	SEQ0786	7.E-04	0.6	FTD	lnc-SNRPN-8:85	SEQ5091	6.E-04	0.7
DLB	lnc-CFAP36-3:3	SEQ4977	8.E-04	1.8	MCI	lnc-SNRPN-8:92	SEQ5103	6.E-04	0.6
DLB	lnc-CFAP36-3:4	SEQ5451	3.E-04	1.7	DLB	lnc-SNTG2-4:3	SEQ4961	8.E-04	1.6
miAD	lnc-CFLAR-1:4	SEQ4116	1.E-02	0.7	FTD	lnc-SNX11-2:1	SEQ5679	1.E-04	0.5
All AD	lnc-CFLAR-1:4	SEQ4116	2.E-02	0.8	FTD	lnc-SNX11-2:2	SEQ5403	3.E-04	0.5
DLB	lnc-CGA-2:2	SEQ4437	2.E-03	1.5	FTD	lnc-SNX2-1:2	SEQ4824	3.E-06	0.4
FTD	lnc-CGREF1-2:1	SEQ2472	4.E-08	0.6	MCI	lnc-SNX2-1:2	SEQ4824	9.E-04	0.5
MCI	lnc-CGREF1-2:1	SEQ2472	5.E-05	0.7	All AD	lnc-SNX33-6:1	SEQ5691	3.E-02	1.2
DLB	lnc-CGREF1-2:1	SEQ2472	4.E-04	0.8	FTD	lnc-SNX7-11:1	SEQ4115	1.E-05	0.5
DLB	lnc-CHADL-1:7	SEQ5196	5.E-04	1.6	All AD	lnc-SNX7-11:1	SEQ4115	3.E-03	0.7
FTD	lnc-CHIC2-2:1	SEQ5765	8.E-05	0.7	miAD	lnc-SNX7-11:1	SEQ4115	3.E-03	0.6
FTD	lnc-CHN2-5:1	SEQ3761	6.E-06	0.6	msAD	lnc-SNX7-11:1	SEQ4115	1.E-02	0.7
miAD	lnc-CHN2-5:1	SEQ3761	1.E-03	0.6	DLB	lnc-SNX8-1:1	SEQ4465	7.E-06	2.1
All AD	lnc-CHN2-5:1	SEQ3761	3.E-03	0.7	MCI	lnc-SNX8-1:1	SEQ4465	7.E-04	1.6
msAD	lnc-CHN2-5:1	SEQ3761	4.E-02	0.7	msAD	lnc-SNX8-1:1	SEQ4465	2.E-03	1.3
DLB	lnc-CHRAC1-6:1	SEQ0420	4.E-04	1.7	All AD	lnc-SNX8-1:1	SEQ4465	1.E-02	1.2
MCI	lnc-CHRAC1-6:1	SEQ0420	1.E-03	1.6	MCI	lnc-SOCS3-3:1	SEQ5667	1.E-04	1.7
MCI	lnc-CHRDL2-3:1	SEQ4264	1.E-05	3.0	FTD	lnc-SOCS6-10:1	SEQ2214	2.E-04	0.5
FTD	lnc-CHRDL2-3:1	SEQ4264	2.E-05	2.4	All AD	lnc-SOCS6-10:1	SEQ2214	2.E-03	0.7
miAD	lnc-CHRDL2-3:1	SEQ4264	9.E-03	1.4	msAD	lnc-SOCS6-10:1	SEQ2214	2.E-03	0.7
All AD	lnc-CHRDL2-3:1	SEQ4264	2.E-02	1.3	miAD	lnc-SOCS6-10:1	SEQ2214	1.E-02	0.7
miAD	lnc-CHRNA9-2:1	SEQ4275	8.E-03	0.6	FTD	lnc-SOWAHB-6:1	SEQ5688	1.E-04	0.6
All AD	lnc-CHRNA9-2:1	SEQ4275	2.E-02	0.7	DLB	lnc-SOX15-1:6	SEQ5525	2.E-04	1.5
msAD	lnc-CHRNE-3:3	SEQ4054	2.E-02	1.5	DLB	lnc-SP110-8:1	SEQ5578	2.E-04	1.7
All AD	lnc-CHRNE-3:3	SEQ4054	2.E-02	1.4	FTD	lnc-SP110-8:4	SEQ3913	8.E-08	0.5
All AD	lnc-CHST3-1:1	SEQ3822	1.E-02	1.3	MCI	lnc-SP110-8:4	SEQ3913	5.E-05	0.6
miAD	lnc-CHST3-1:1	SEQ3822	1.E-02	1.3	All AD	lnc-SP110-8:4	SEQ3913	2.E-02	0.7
msAD	lnc-CHST3-1:1	SEQ3822	4.E-02	1.2	msAD	lnc-SP110-8:4	SEQ3913	3.E-02	0.7
DLB	lnc-CIB3-1:1	SEQ5176	5.E-04	1.4	All AD	lnc-SP110-8:5	SEQ3738	2.E-02	0.7
DLB	lnc-CIB3-1:2	SEQ2750	5.E-04	1.3	msAD	lnc-SP110-8:5	SEQ3738	4.E-02	0.7

DLB	lnc-CIB3-1:3	SEQ5179	5.E-04	1.4	FTD	lnc-SP110-9:1	SEQ5228	5.E-04	0.6
FTD	lnc-CISD2-1:2	SEQ4031	1.E-04	0.6	All AD	lnc-SP140-3:4	SEQ3575	4.E-02	0.8
All AD	lnc-CISD2-1:2	SEQ4031	7.E-03	0.7	DLB	lnc-SP140-3:7	SEQ5250	5.E-04	1.5
miAD	lnc-CISD2-1:2	SEQ4031	1.E-02	0.7	miAD	lnc-SP9-13:4	SEQ4245	9.E-03	0.6
msAD	lnc-CISD2-1:2	SEQ4031	2.E-02	0.7	miAD	lnc-SP9-8:1	SEQ4209	1.E-02	0.7
FTD	lnc-CISD2-1:3	SEQ3366	4.E-04	1.4	FTD	lnc-SPACA5-1:1	SEQ5830	5.E-05	0.6
MCI	lnc-CISD2-1:3	SEQ3366	5.E-04	1.3	miAD	lnc-SPAG1-7:1	SEQ4333	1.E-04	1.3
DLB	lnc-CISD2-11:1	SEQ3654	5.E-05	1.6	All AD	lnc-SPAG1-7:1	SEQ4333	4.E-04	1.3
MCI	lnc-CISD2-11:1	SEQ3654	2.E-03	1.5	msAD	lnc-SPAG1-7:1	SEQ4333	6.E-03	1.2
msAD	lnc-CISD2-11:1	SEQ3654	5.E-02	1.2	DLB	lnc-SPATA21-3:1	SEQ3769	6.E-05	1.5
DLB	lnc-CKB-1:1	SEQ4952	8.E-04	1.5	msAD	lnc-SPATA21-3:1	SEQ3769	4.E-02	1.1
DLB	lnc-CKS1B-2:2	SEQ5479	2.E-04	1.4	DLB	lnc-SPATA21-4:9	SEQ5177	5.E-04	1.4
MCI	lnc-CKS1B-3:1	SEQ3367	3.E-06	1.7	DLB	lnc-SPATA21-6:3	SEQ2824	2.E-04	1.6
DLB	lnc-CKS1B-3:1	SEQ3367	1.E-04	1.6	All AD	lnc-SPATA31A1-3:1	SEQ5702	4.E-02	0.7
All AD	lnc-CKS1B-3:1	SEQ3367	4.E-02	1.1	MCI	lnc-SPATA32-1:1	SEQ4779	1.E-03	1.6
MCI	lnc-CKS1B-3:3	SEQ5798	6.E-05	1.9	All AD	lnc-SPATA32-2:16	SEQ4238	7.E-03	0.8
FTD	lnc-CLASP2-1:2	SEQ4047	7.E-07	1.5	msAD	lnc-SPATA32-2:16	SEQ4238	1.E-02	0.8
DLB	lnc-CLASP2-1:2	SEQ4047	1.E-06	1.7	DLB	lnc-SPATA32-2:4	SEQ3464	2.E-03	1.8
MCI	lnc-CLASP2-1:2	SEQ4047	5.E-05	1.6	All AD	lnc-SPATA32-2:7	SEQ5704	4.E-02	0.8
All AD	lnc-CLASP2-1:2	SEQ4047	1.E-02	1.2	FTD	lnc-SPERT-4:1	SEQ5777	7.E-05	0.6
msAD	lnc-CLASP2-1:2	SEQ4047	2.E-02	1.2	miAD	lnc-SPOCK2-1:2	SEQ3582	1.E-03	1.4
FTD	lnc-CLDN10-7:1	SEQ5913	2.E-05	0.5	All AD	lnc-SPOCK2-1:2	SEQ3582	2.E-03	1.3
DLB	lnc-CLDN4-2:1	SEQ5371	3.E-04	1.4	msAD	lnc-SPOCK2-1:2	SEQ3582	1.E-02	1.3
DLB	lnc-CLEC16A-1:1	SEQ4387	5.E-05	1.8	miAD	lnc-SPON2-1:2	SEQ2237	1.E-02	0.7
MCI	lnc-CLEC16A-1:1	SEQ4387	2.E-03	1.5	All AD	lnc-SPON2-1:2	SEQ2237	2.E-02	0.7
All AD	lnc-CLEC16A-1:1	SEQ4387	2.E-02	1.3	MCI	lnc-SPOPL-10:1	SEQ2567	8.E-05	0.4
DLB	lnc-CLEC18B-5:1	SEQ2878	2.E-03	1.5	DLB	lnc-SPOPL-10:1	SEQ2567	8.E-04	0.4
miAD	lnc-CLEC2D-8:4	SEQ4386	2.E-03	0.3	FTD	lnc-SPOPL-2:3	SEQ4138	8.E-04	0.6
DLB	lnc-CLEC2D-8:7	SEQ3369	3.E-04	1.6	miAD	lnc-SPOPL-2:3	SEQ4138	1.E-02	0.8
MCI	lnc-CLEC2D-8:7	SEQ3369	1.E-03	1.5	All AD	lnc-SPOPL-2:3	SEQ4138	2.E-02	0.8
All AD	lnc-CLEC2D-8:7	SEQ3369	4.E-03	1.3	FTD	lnc-SPOPL-2:4	SEQ5101	4.E-08	0.3
msAD	lnc-CLEC2D-8:7	SEQ3369	5.E-03	1.3	miAD	lnc-SPOPL-2:4	SEQ5101	3.E-04	0.4
FTD	lnc-CLEC3A-2:2	SEQ4802	1.E-03	0.5	MCI	lnc-SPOPL-2:4	SEQ5101	6.E-04	0.5
FTD	lnc-CLIC6-5:1	SEQ5544	2.E-04	0.6	All AD	lnc-SPOPL-2:4	SEQ5101	9.E-04	0.5
All AD	lnc-CLK3-1:1	SEQ4389	4.E-02	1.1	FTD	lnc-SPPL2A-2:1	SEQ4363	2.E-09	0.5
DLB	lnc-CLLU1-2:1	SEQ4390	2.E-03	1.2	MCI	lnc-SPPL2A-2:1	SEQ4363	3.E-06	0.5
All AD	lnc-CLLU1-2:1	SEQ4390	4.E-02	1.1	All AD	lnc-SPPL2A-2:1	SEQ4363	1.E-03	0.7
msAD	lnc-CLLU1-2:2	SEQ4016	2.E-02	1.4	miAD	lnc-SPPL2A-2:1	SEQ4363	2.E-03	0.7
All AD	lnc-CLLU1-2:2	SEQ4016	5.E-02	1.2	msAD	lnc-SPPL2A-2:1	SEQ4363	4.E-03	0.7
All AD	lnc-CLSPN-2:1	SEQ4392	4.E-02	0.8	DLB	lnc-SPPL3-2:1	SEQ5246	5.E-04	1.4
DLB	lnc-CLUAP1-1:2	SEQ4705	1.E-03	1.5	DLB	lnc-SPPL3-3:1	SEQ5726	9.E-05	1.4
DLB	lnc-CLUAP1-8:2	SEQ5247	6.E-05	1.5	DLB	lnc-SPPL3-4:1	SEQ4776	3.E-04	1.7

MCI	lnc-CLUAP1-8:2	SEQ5247	5.E-04	1.4	MCI	lnc-SPPL3-4:1	SEQ4776	1.E-03	1.6
DLB	lnc-CLUAP1-9:1	SEQ5428	3.E-04	1.4	FTD	lnc-SPRTN-2:1	SEQ4204	6.E-08	0.5
FTD	lnc-CLUH-2:1	SEQ4815	1.E-03	0.8	miAD	lnc-SPRTN-2:1	SEQ4204	1.E-03	0.6
DLB	lnc-CMTM3-1:1	SEQ2789	4.E-04	1.3	MCI	lnc-SPRTN-2:1	SEQ4204	1.E-03	0.6
DLB	lnc-CMTM4-5:1	SEQ5706	1.E-04	1.8	All AD	lnc-SPRTN-2:1	SEQ4204	2.E-03	0.6
DLB	lnc-CMTM7-2:1	SEQ3789	9.E-04	1.3	msAD	lnc-SPRTN-2:1	SEQ4204	1.E-02	0.6
msAD	lnc-CMTM7-2:1	SEQ3789	4.E-02	1.2	DLB	lnc-SPRYD3-1:12	SEQ3876	2.E-05	2.2
FTD	lnc-CMTR1-10:1	SEQ0788	4.E-09	0.4	MCI	lnc-SPRYD3-1:12	SEQ3876	3.E-05	2.0
MCI	lnc-CMTR1-10:1	SEQ0788	7.E-04	0.6	FTD	lnc-SPRYD3-1:12	SEQ3876	2.E-04	1.6
miAD	lnc-CMTR1-10:1	SEQ0788	1.E-02	0.5	All AD	lnc-SPRYD3-1:12	SEQ3876	9.E-03	1.3
All AD	lnc-CMTR1-10:1	SEQ0788	2.E-02	0.6	miAD	lnc-SPRYD3-1:12	SEQ3876	1.E-02	1.3
DLB	lnc-CNN1-6:1	SEQ5036	9.E-05	1.7	msAD	lnc-SPRYD3-1:12	SEQ3876	3.E-02	1.3
MCI	lnc-CNN1-6:1	SEQ5036	7.E-04	1.5	DLB	lnc-SPRYD3-1:8	SEQ4196	7.E-04	1.5
DLB	lnc-CNP-1:1	SEQ3058	6.E-04	1.5	miAD	lnc-SPRYD3-1:8	SEQ4196	1.E-02	1.3
FTD	lnc-CNTNAP3B-10:1	SEQ4987	8.E-04	0.4	All AD	lnc-SPRYD3-1:8	SEQ4196	3.E-02	1.2
msAD	lnc-CNTRL-6:6	SEQ3795	4.E-02	1.6	DLB	lnc-SPTBN4-1:5	SEQ3774	3.E-04	1.6
DLB	lnc-COA6-4:1	SEQ4752	3.E-05	1.5	All AD	lnc-SPTBN4-1:5	SEQ3774	3.E-02	1.2
MCI	lnc-COA6-4:1	SEQ4752	1.E-03	1.4	msAD	lnc-SPTBN4-1:5	SEQ3774	4.E-02	1.2
DLB	lnc-COG7-1:1	SEQ4630	1.E-03	1.5	MCI	lnc-SQSTM1-2:3	SEQ4572	4.E-04	1.7
DLB	lnc-COG7-3:3	SEQ5741	9.E-05	2.1	DLB	lnc-SQSTM1-2:3	SEQ4572	2.E-03	1.5
DLB	lnc-COG8-2:1	SEQ4580	8.E-05	1.7	DLB	lnc-SQSTM1-4:1	SEQ5526	2.E-04	1.5
MCI	lnc-COG8-2:1	SEQ4580	2.E-03	1.5	FTD	lnc-SRD5A3-4:1	SEQ5600	2.E-04	0.6
All AD	lnc-COIL-7:1	SEQ4411	4.E-02	0.8	miAD	lnc-SRGN-4:1	SEQ4157	1.E-02	0.8
All AD	lnc-COPG1-2:3	SEQ4412	3.E-02	0.7	All AD	lnc-SRGN-4:1	SEQ4157	3.E-02	0.8
DLB	lnc-COPG1-3:3	SEQ5135	6.E-04	1.7	MCI	lnc-SRP54-1:2	SEQ4762	1.E-03	1.5
FTD	lnc-COPS5-2:1	SEQ5834	5.E-05	0.7	FTD	lnc-SRPK2-1:16	SEQ5859	3.E-08	0.1
DLB	lnc-COPS7A-4:3	SEQ5655	1.E-04	1.4	MCI	lnc-SRPK2-1:16	SEQ5859	3.E-06	0.1
msAD	lnc-COQ4-1:3	SEQ3653	5.E-02	0.9	DLB	lnc-SRPK2-1:16	SEQ5859	4.E-05	0.1
DLB	lnc-COQ9-1:1	SEQ4440	2.E-03	1.6	FTD	lnc-SRPK2-1:17	SEQ4662	2.E-07	7.3
MCI	lnc-COX19-2:1	SEQ3091	8.E-05	2.1	MCI	lnc-SRPK2-1:17	SEQ4662	7.E-06	4.6
DLB	lnc-COX19-2:1	SEQ3091	5.E-04	1.8	DLB	lnc-SRPK2-1:17	SEQ4662	1.E-03	2.7
DLB	lnc-COX4I1-6:1	SEQ4446	2.E-03	1.6	FTD	lnc-SRPK2-1:18	SEQ5722	1.E-05	0.6
miAD	lnc-COX6A2-5:1	SEQ4280	8.E-03	0.8	All AD	lnc-SRPK2-1:18	SEQ5722	3.E-02	0.8
All AD	lnc-COX6A2-5:1	SEQ4280	2.E-02	0.8	DLB	lnc-SRPK2-1:5	SEQ4647	1.E-03	1.7
MCI	lnc-COX7A2L-4:9	SEQ4095	3.E-04	1.4	FTD	lnc-SRPK2-1:7	SEQ6004	5.E-08	0.2
DLB	lnc-COX7A2L-4:9	SEQ4095	8.E-04	1.5	FTD	lnc-SRPK2-5:4	SEQ5352	4.E-04	0.6
All AD	lnc-COX7A2L-4:9	SEQ4095	3.E-03	1.3	FTD	lnc-SRPK2-6:1	SEQ6012	2.E-10	0.3
miAD	lnc-COX7A2L-4:9	SEQ4095	3.E-03	1.3	FTD	lnc-SRPK2-7:1	SEQ5931	1.E-05	0.7
msAD	lnc-COX7A2L-4:9	SEQ4095	1.E-02	1.3	FTD	lnc-SRPK2-8:1	SEQ4380	7.E-06	0.4
FTD	lnc-COX7B-4:2	SEQ4421	1.E-04	0.6	miAD	lnc-SRPK2-8:1	SEQ4380	3.E-03	0.5
All AD	lnc-COX7B-4:2	SEQ4421	3.E-02	0.8	DLB	lnc-SRRM2-1:2	SEQ4244	5.E-04	2.1
MCI	lnc-CPLX1-2:15	SEQ5214	5.E-04	2.0	FTD	lnc-SRRM2-1:2	SEQ4244	7.E-04	2.1
DLB	lnc-CPLX1-2:17	SEQ5918	2.E-05	1.9	All AD	lnc-SRRM2-1:2	SEQ4244	9.E-03	1.5

MCI	lnc-CPLX1-2:6	SEQ5464	8.E-05	4.5	msAD	lnc-SRRM2-1:2	SEQ4244	1.E-02	1.5
FTD	lnc-CPLX1-2:6	SEQ5464	1.E-04	3.2	MCI	lnc-SRSF12-2:1	SEQ3670	1.E-06	1.8
DLB	lnc-CPLX1-2:6	SEQ5464	3.E-04	3.5	DLB	lnc-SRSF12-2:1	SEQ3670	3.E-06	1.8
DLB	lnc-CPLX1-2:8	SEQ2869	4.E-04	1.6	FTD	lnc-SRSF12-2:1	SEQ3670	6.E-04	1.4
FTD	lnc-CPM-1:1	SEQ3371	4.E-05	0.6	miAD	lnc-SRSF12-2:1	SEQ3670	4.E-03	1.1
FTD	lnc-CPM-3:1	SEQ0228	1.E-07	0.5	All AD	lnc-SRSF12-2:1	SEQ3670	8.E-03	1.1
MCI	lnc-CPM-3:1	SEQ0228	3.E-04	0.5	msAD	lnc-SRSF12-2:1	SEQ3670	5.E-02	1.1
All AD	lnc-CPM-3:1	SEQ0228	3.E-02	0.8	DLB	lnc-SRSF2-1:1	SEQ4861	9.E-04	1.5
DLB	lnc-CPM-6:1	SEQ5338	4.E-04	1.8	MCI	lnc-SRSF2-10:1	SEQ4626	2.E-04	1.5
DLB	lnc-CPPED1-1:1	SEQ3862	2.E-04	1.7	DLB	lnc-SRSF2-10:1	SEQ4626	1.E-03	1.4
All AD	lnc-CPPED1-1:1	SEQ3862	1.E-02	1.2	DLB	lnc-SRSF2-9:1	SEQ5120	6.E-04	1.5
msAD	lnc-CPPED1-1:1	SEQ3862	3.E-02	1.3	MCI	lnc-SRSF2-9:2	SEQ4935	2.E-04	1.6
miAD	lnc-CPSF2-5:1	SEQ4384	3.E-05	1.7	DLB	lnc-SRSF2-9:2	SEQ4935	8.E-04	1.4
FTD	lnc-CPSF2-5:1	SEQ4384	8.E-05	1.8	DLB	lnc-SRY-11:1	SEQ4418	2.E-03	1.4
All AD	lnc-CPSF2-5:1	SEQ4384	1.E-04	1.6	DLB	lnc-SSBP4-2:1	SEQ4638	1.E-03	1.5
MCI	lnc-CPSF2-5:1	SEQ4384	2.E-04	1.8	All AD	lnc-SSH3-4:1	SEQ5734	3.E-02	0.8
DLB	lnc-CPSF2-5:1	SEQ4384	2.E-04	1.7	DLB	lnc-SSH3-5:1	SEQ2791	3.E-04	1.4
msAD	lnc-CPSF2-5:1	SEQ4384	3.E-03	1.4	MCI	lnc-SSH3-5:1	SEQ2791	7.E-04	1.3
MCI	lnc-CRACR2A-5:2	SEQ5302	2.E-04	1.6	MCI	lnc-SSR2-1:4	SEQ4922	8.E-04	0.7
DLB	lnc-CRACR2A-5:2	SEQ5302	3.E-04	1.6	FTD	lnc-SSTR4-9:1	SEQ4890	9.E-04	0.5
FTD	lnc-CRACR2A-5:2	SEQ5302	4.E-04	1.4	DLB	lnc-ST3GAL2-1:1	SEQ5310	4.E-04	1.4
FTD	lnc-CRCP-1:1	SEQ4805	1.E-03	0.6	FTD	lnc-STARD8-3:1	SEQ2647	2.E-04	0.7
msAD	lnc-CREG1-3:1	SEQ3949	3.E-02	1.2	All AD	lnc-STARD8-3:1	SEQ2647	1.E-02	0.8
All AD	lnc-CREG1-3:1	SEQ3949	3.E-02	1.2	msAD	lnc-STARD8-3:1	SEQ2647	3.E-02	0.8
FTD	lnc-CRIPT-5:1	SEQ5900	2.E-05	0.6	FTD	lnc-STARD9-1:6	SEQ5009	5.E-04	0.4
DLB	lnc-CRLF1-1:2	SEQ4674	1.E-03	1.3	MCI	lnc-STARD9-1:6	SEQ5009	7.E-04	0.4
DLB	lnc-CRLF1-1:4	SEQ4435	2.E-03	1.5	FTD	lnc-STAT1-1:1	SEQ5513	8.E-05	0.5
FTD	lnc-CRYBA4-23:40	SEQ4888	9.E-04	0.5	MCI	lnc-STAT1-1:1	SEQ5513	2.E-04	0.5
FTD	lnc-CRYBB1-1:3	SEQ4444	1.E-03	1.5	All AD	lnc-STAT1-1:1	SEQ5513	3.E-02	0.7
All AD	lnc-CRYBB1-1:3	SEQ4444	3.E-02	1.2	DLB	lnc-STAT3-1:2	SEQ4918	2.E-04	3.9
DLB	lnc-CRYM-4:1	SEQ2958	3.E-04	1.6	FTD	lnc-STAT3-1:2	SEQ4918	9.E-04	2.6
FTD	lnc-CSNK1A1L-1:1	SEQ3695	5.E-04	0.5	FTD	lnc-STAT3-1:3	SEQ3739	2.E-08	0.6
miAD	lnc-CSNK1A1L-1:1	SEQ3695	1.E-03	0.6	All AD	lnc-STAT3-1:3	SEQ3739	2.E-02	0.7
All AD	lnc-CSNK1A1L-1:1	SEQ3695	4.E-03	0.6	msAD	lnc-STAT3-1:3	SEQ3739	4.E-02	0.8
msAD	lnc-CSNK1A1L-1:1	SEQ3695	5.E-02	0.7	FTD	lnc-STAU2-3:4	SEQ3564	2.E-04	0.6
FTD	lnc-CSNK1E-1:4	SEQ4474	5.E-04	0.7	miAD	lnc-STAU2-3:4	SEQ3564	1.E-02	0.7
MCI	lnc-CSNK1E-1:4	SEQ4474	2.E-03	0.7	All AD	lnc-STAU2-3:4	SEQ3564	2.E-02	0.8
DLB	lnc-CSNK1G2-4:2	SEQ5529	5.E-05	1.7	FTD	lnc-STEAP4-1:1	SEQ3694	7.E-04	0.5
MCI	lnc-CSNK1G2-4:2	SEQ5529	2.E-04	1.6	miAD	lnc-STEAP4-1:1	SEQ3694	7.E-03	0.6
FTD	lnc-CSPP1-1:5	SEQ4452	4.E-05	1.8	All AD	lnc-STEAP4-1:1	SEQ3694	9.E-03	0.7
MCI	lnc-CSPP1-1:5	SEQ4452	4.E-05	1.8	msAD	lnc-STEAP4-1:1	SEQ3694	5.E-02	0.7
DLB	lnc-CSPP1-1:5	SEQ4452	1.E-04	1.8	DLB	lnc-STK38-1:1	SEQ5520	2.E-04	1.4
All AD	lnc-CSPP1-1:5	SEQ4452	4.E-02	1.2	miAD	lnc-STK39-3:9	SEQ3878	6.E-03	1.4

FTD	lnc-CSRP2-1:1	SEQ3936	5.E-04	0.7	All AD	lnc-STK39-3:9	SEQ3878	7.E-03	1.3
miAD	lnc-CSRP2-1:1	SEQ3936	2.E-03	0.7	msAD	lnc-STK39-3:9	SEQ3878	3.E-02	1.3
All AD	lnc-CSRP2-1:1	SEQ3936	3.E-03	0.7	FTD	lnc-STK4-1:1	SEQ5420	3.E-04	0.7
msAD	lnc-CSRP2-1:1	SEQ3936	3.E-02	0.8	DLB	lnc-STOM-1:1	SEQ4855	9.E-04	1.5
DLB	lnc-CT47A1-1:1	SEQ2504	4.E-06	1.6	FTD	lnc-STON2-5:1	SEQ3631	4.E-05	0.6
FTD	lnc-CTAGE5-8:4	SEQ4898	9.E-04	0.6	MCI	lnc-STON2-5:1	SEQ3631	3.E-04	0.6
DLB	lnc-CTC1-2:8	SEQ4631	7.E-04	1.5	All AD	lnc-STON2-5:1	SEQ3631	4.E-02	0.8
MCI	lnc-CTC1-2:8	SEQ4631	1.E-03	1.5	FTD	lnc-STRN-1:1	SEQ4399	1.E-06	0.6
FTD	lnc-CTNNBIP1-1:1	SEQ5155	5.E-04	0.6	MCI	lnc-STRN-1:1	SEQ4399	2.E-03	0.7
DLB	lnc-CTNS-1:1	SEQ2816	4.E-05	1.6	DLB	lnc-STUB1-2:1	SEQ5253	5.E-04	1.5
msAD	lnc-CTNS-1:1	SEQ2816	4.E-03	1.2	DLB	lnc-STX10-2:1	SEQ3470	9.E-06	1.6
All AD	lnc-CTNS-1:1	SEQ2816	9.E-03	1.1	MCI	lnc-STX10-2:1	SEQ3470	9.E-06	1.7
All AD	lnc-CTSZ-2:11	SEQ4037	1.E-02	1.4	FTD	lnc-STX10-2:1	SEQ3470	2.E-05	1.5
msAD	lnc-CTSZ-2:11	SEQ4037	2.E-02	1.4	DLB	lnc-STX10-2:2	SEQ4686	6.E-04	1.5
FTD	lnc-CTSZ-7:1	SEQ5690	3.E-07	0.5	MCI	lnc-STX10-2:2	SEQ4686	1.E-03	1.4
MCI	lnc-CTSZ-7:1	SEQ5690	1.E-04	0.6	FTD	lnc-STX3-4:2	SEQ4242	2.E-05	2.0
DLB	lnc-CTU2-1:1	SEQ5116	6.E-04	1.4	DLB	lnc-STX3-4:2	SEQ4242	4.E-05	2.2
DLB	lnc-CTU2-3:2	SEQ5540	2.E-04	2.0	MCI	lnc-STX3-4:2	SEQ4242	6.E-05	2.4
MCI	lnc-CTU2-3:4	SEQ5448	3.E-04	1.7	All AD	lnc-STX3-4:2	SEQ4242	2.E-03	1.5
DLB	lnc-CTXN1-2:1	SEQ5946	9.E-06	1.7	msAD	lnc-STX3-4:2	SEQ4242	3.E-03	1.6
DLB	lnc-CUL2-3:5	SEQ4848	9.E-04	1.5	miAD	lnc-STX3-4:2	SEQ4242	1.E-02	1.4
FTD	lnc-CWC15-1:1	SEQ4464	2.E-07	0.5	All AD	lnc-STX3-4:7	SEQ4065	8.E-03	0.7
MCI	lnc-CWC15-1:1	SEQ4464	4.E-05	0.5	msAD	lnc-STX3-4:7	SEQ4065	2.E-02	0.7
All AD	lnc-CWC15-1:1	SEQ4464	4.E-02	0.8	FTD	lnc-STX3-4:8	SEQ4268	8.E-04	0.6
FTD	lnc-CWC15-1:2	SEQ4374	2.E-06	3.4	All AD	lnc-STX3-4:8	SEQ4268	3.E-03	0.6
DLB	lnc-CWC15-1:2	SEQ4374	2.E-04	2.4	msAD	lnc-STX3-4:8	SEQ4268	7.E-03	0.6
All AD	lnc-CWC15-1:2	SEQ4374	7.E-04	1.6	miAD	lnc-STX3-4:8	SEQ4268	8.E-03	0.7
miAD	lnc-CWC15-1:2	SEQ4374	1.E-03	1.7	FTD	lnc-STXBP4-1:2	SEQ5962	6.E-06	0.4
msAD	lnc-CWC15-1:2	SEQ4374	3.E-03	1.6	DLB	lnc-SUGCT-4:1	SEQ3612	2.E-03	1.4
DLB	lnc-CWC15-5:1	SEQ4118	4.E-05	1.5	FTD	lnc-SUGCT-5:1	SEQ4035	6.E-06	0.5
MCI	lnc-CWC15-5:1	SEQ4118	2.E-03	1.3	MCI	lnc-SUGCT-5:1	SEQ4035	3.E-04	0.7
miAD	lnc-CWC15-5:1	SEQ4118	1.E-02	1.2	All AD	lnc-SUGCT-5:1	SEQ4035	9.E-03	0.7
All AD	lnc-CWC15-5:1	SEQ4118	2.E-02	1.2	msAD	lnc-SUGCT-5:1	SEQ4035	2.E-02	0.7
FTD	lnc-CWF19L2-1:2	SEQ5599	2.E-04	0.6	DLB	lnc-SULT1A4-1:9	SEQ4582	2.E-03	1.5
miAD	lnc-CXorf21-2:1	SEQ4180	1.E-02	0.6	MCI	lnc-SUMF1-5:1	SEQ5751	1.E-06	2.2
All AD	lnc-CXorf21-2:1	SEQ4180	2.E-02	0.7	FTD	lnc-SUMF1-5:1	SEQ5751	2.E-06	1.8
DLB	lnc-CXorf65-2:1	SEQ2748	3.E-05	1.5	DLB	lnc-SUMF1-5:1	SEQ5751	6.E-06	2.4
FTD	lnc-CYB5D2-2:2	SEQ5297	4.E-04	0.7	All AD	lnc-SUMF1-5:1	SEQ5751	4.E-02	1.2
msAD	lnc-CYB5R2-3:10	SEQ4322	6.E-03	1.4	FTD	lnc-SUMO4-2:1	SEQ5857	4.E-05	0.6
All AD	lnc-CYB5R2-3:10	SEQ4322	4.E-02	1.2	FTD	lnc-SUPT16H-3:1	SEQ4923	5.E-04	0.8
DLB	lnc-CYGB-1:1	SEQ5753	8.E-05	1.6	MCI	lnc-SUPT16H-3:1	SEQ4923	8.E-04	0.8
msAD	lnc-CYGB-2:2	SEQ3872	3.E-02	0.9	FTD	lnc-SUPT16H-3:2	SEQ4030	3.E-09	0.4
DLB	lnc-CYGB-4:1	SEQ5318	4.E-04	1.5	MCI	lnc-SUPT16H-3:2	SEQ4030	8.E-05	0.5

miAD	lnc-CYP1B1-1:3	SEQ4468	2.E-03	0.7	All AD	lnc-SUPT16H-3:2	SEQ4030	6.E-03	0.7
All AD	lnc-CYP1B1-1:3	SEQ4468	5.E-03	0.7	miAD	lnc-SUPT16H-3:2	SEQ4030	1.E-02	0.7
DLB	lnc-CYP4F22-2:2	SEQ5815	5.E-05	1.6	msAD	lnc-SUPT16H-3:2	SEQ4030	2.E-02	0.7
DLB	lnc-CYP4F22-6:1	SEQ5038	7.E-04	1.6	DLB	lnc-SUPT6H-1:2	SEQ5860	4.E-05	1.5
All AD	lnc-CYP4F8-1:1	SEQ4470	4.E-02	1.2	DLB	lnc-SUSD1-1:4	SEQ5144	6.E-04	1.9
All AD	lnc-CYP4F8-1:2	SEQ4471	4.E-02	1.2	FTD	lnc-SUSD1-1:5	SEQ0638	6.E-04	0.6
msAD	lnc-CYR61-3:5	SEQ3687	5.E-02	1.2	miAD	lnc-SUSD1-1:5	SEQ0638	1.E-02	0.7
FTD	lnc-CYTIP-2:1	SEQ0200	9.E-04	0.7	All AD	lnc-SUSD1-1:5	SEQ0638	4.E-02	0.8
DLB	lnc-DALRD3-1:11	SEQ4791	1.E-03	1.9	DLB	lnc-SWSAP1-4:1	SEQ4126	4.E-05	1.5
DLB	lnc-DALRD3-1:4	SEQ3374	2.E-04	1.5	All AD	lnc-SWSAP1-4:1	SEQ4126	3.E-03	1.2
DLB	lnc-DALRD3-6:1	SEQ4475	1.E-04	1.5	miAD	lnc-SWSAP1-4:1	SEQ4126	4.E-03	1.2
All AD	lnc-DALRD3-6:1	SEQ4475	2.E-02	1.2	msAD	lnc-SWSAP1-4:1	SEQ4126	1.E-02	1.2
FTD	lnc-DAPP1-8:3	SEQ2439	5.E-04	0.6	FTD	lnc-SYCE3-1:2	SEQ3976	4.E-04	0.7
FTD	lnc-DARS2-3:2	SEQ4913	9.E-04	0.8	msAD	lnc-SYCE3-1:2	SEQ3976	2.E-02	0.7
MCI	lnc-DAZAP2-3:1	SEQ0056	2.E-03	1.6	All AD	lnc-SYCE3-1:2	SEQ3976	2.E-02	0.7
DLB	lnc-DBT-3:1	SEQ5340	4.E-05	1.9	DLB	lnc-SYNE3-1:1	SEQ5369	3.E-04	1.4
MCI	lnc-DBT-3:1	SEQ5340	4.E-04	1.8	DLB	lnc-SYNE3-1:2	SEQ5368	3.E-04	1.4
All AD	lnc-DBX2-4:3	SEQ4477	5.E-02	1.1	DLB	lnc-SYNE3-1:3	SEQ5309	4.E-04	1.4
DLB	lnc-DCAF1-1:1	SEQ3375	1.E-04	1.3	All AD	lnc-SYNE3-5:1	SEQ5757	3.E-02	1.4
FTD	lnc-DCAF4L1-2:1	SEQ2387	1.E-04	0.6	MCI	lnc-SYT13-8:1	SEQ3708	2.E-06	1.7
All AD	lnc-DCAF4L1-2:1	SEQ2387	1.E-02	0.7	DLB	lnc-SYT13-8:1	SEQ3708	1.E-05	1.6
msAD	lnc-DCAF4L1-2:1	SEQ2387	3.E-02	0.7	All AD	lnc-SYT13-8:1	SEQ3708	4.E-02	1.2
MCI	lnc-DCLRE1B-3:1	SEQ5928	2.E-06	0.4	msAD	lnc-SYT13-8:1	SEQ3708	5.E-02	1.2
FTD	lnc-DCLRE1B-3:1	SEQ5928	1.E-05	0.4	DLB	lnc-SYT2-4:2	SEQ5097	6.E-04	2.E-03
FTD	lnc-DCUN1D1-10:1	SEQ4291	1.E-09	0.3	FTD	lnc-TAAR9-3:4	SEQ5364	3.E-05	0.3
MCI	lnc-DCUN1D1-10:1	SEQ4291	2.E-05	0.4	MCI	lnc-TAAR9-3:4	SEQ5364	3.E-04	0.3
DLB	lnc-DCUN1D1-10:1	SEQ4291	9.E-05	0.4	FTD	lnc-TAAR9-3:5	SEQ4732	2.E-10	0.4
miAD	lnc-DCUN1D1-10:1	SEQ4291	7.E-03	0.4	MCI	lnc-TAAR9-3:5	SEQ4732	6.E-06	0.4
All AD	lnc-DCUN1D1-10:1	SEQ4291	1.E-02	0.5	miAD	lnc-TAAR9-3:5	SEQ4732	1.E-03	0.6
DLB	lnc-DDB1-1:2	SEQ5421	8.E-05	1.7	All AD	lnc-TAAR9-3:5	SEQ4732	6.E-03	0.6
MCI	lnc-DDB1-1:2	SEQ5421	2.E-04	1.6	DLB	lnc-TAF12-5:1	SEQ3964	2.E-04	1.4
FTD	lnc-DDB1-1:2	SEQ5421	3.E-04	1.5	msAD	lnc-TAF12-5:1	SEQ3964	2.E-02	1.2
MCI	lnc-DDIAS-6:1	SEQ3745	5.E-04	1.4	DLB	lnc-TAF6-1:2	SEQ5219	5.E-04	2.7
DLB	lnc-DDIAS-6:1	SEQ3745	7.E-04	1.6	DLB	lnc-TAF9-1:8	SEQ4558	2.E-03	1.3
miAD	lnc-DDIAS-6:1	SEQ3745	8.E-03	1.3	miAD	lnc-TAF9-2:2	SEQ4102	1.E-02	0.5
All AD	lnc-DDIAS-6:1	SEQ3745	1.E-02	1.2	DLB	lnc-TAF9-6:6	SEQ4969	8.E-04	1.6
msAD	lnc-DDIAS-6:1	SEQ3745	4.E-02	1.2	DLB	lnc-TAGLN-2:1	SEQ3559	4.E-04	1.4
MCI	lnc-DDX39A-3:1	SEQ4785	1.E-03	1.7	FTD	lnc-TANC1-1:3	SEQ5238	1.E-08	0.3
FTD	lnc-DDX58-3:1	SEQ4044	1.E-03	0.7	miAD	lnc-TANC1-1:3	SEQ5238	5.E-04	0.5
All AD	lnc-DDX58-3:1	SEQ4044	1.E-02	0.7	FTD	lnc-TAOK1-4:1	SEQ3609	7.E-04	0.7
msAD	lnc-DDX58-3:1	SEQ4044	2.E-02	0.7	MCI	lnc-TAOK1-4:2	SEQ5761	1.E-05	0.2
DLB	lnc-DDX6-1:1	SEQ5115	6.E-04	1.4	FTD	lnc-TAOK1-4:2	SEQ5761	8.E-05	0.2
DLB	lnc-DEC1-7:1	SEQ3804	2.E-04	1.6	DLB	lnc-TAOK3-9:1	SEQ2396	6.E-04	1.5

MCI	lnc-DEC1-7:1	SEQ3804	9.E-04	1.6	miAD	lnc-TAOK3-9:1	SEQ2396	2.E-03	1.3
msAD	lnc-DEC1-7:1	SEQ3804	4.E-02	1.2	All AD	lnc-TAOK3-9:1	SEQ2396	3.E-03	1.2
DLB	lnc-DEFB115-3:1	SEQ5595	9.E-06	2.4	msAD	lnc-TAOK3-9:1	SEQ2396	2.E-02	1.2
FTD	lnc-DEFB115-3:1	SEQ5595	2.E-04	1.8	MCI	lnc-TARBP1-6:1	SEQ2671	5.E-05	1.7
DLB	lnc-DEFB115-5:2	SEQ2465	8.E-05	2.0	DLB	lnc-TARBP1-6:1	SEQ2671	1.E-04	1.7
FTD	lnc-DEFB115-5:2	SEQ2465	6.E-04	1.7	FTD	lnc-TARBP1-6:1	SEQ2671	2.E-04	1.6
All AD	lnc-DEFB115-5:2	SEQ2465	4.E-02	1.3	All AD	lnc-TARBP1-6:1	SEQ2671	4.E-04	1.5
All AD	lnc-DEFB131B-5:1	SEQ3683	4.E-02	1.2	msAD	lnc-TARBP1-6:1	SEQ2671	1.E-03	1.4
msAD	lnc-DEFB131B-5:1	SEQ3683	5.E-02	1.2	miAD	lnc-TARBP1-6:1	SEQ2671	1.E-03	1.5
DLB	lnc-DEGS2-2:2	SEQ4003	9.E-06	1.6	MCI	lnc-TARS-6:1	SEQ3544	1.E-03	1.7
FTD	lnc-DEGS2-2:2	SEQ4003	9.E-04	1.4	FTD	lnc-TAS2R30-1:2	SEQ5288	4.E-04	0.6
MCI	lnc-DEGS2-2:2	SEQ4003	9.E-04	1.4	FTD	lnc-TBC1D19-8:1	SEQ5084	6.E-04	0.6
All AD	lnc-DEGS2-2:2	SEQ4003	8.E-03	1.2	FTD	lnc-TBC1D19-8:2	SEQ5960	6.E-06	4.E-02
miAD	lnc-DEGS2-2:2	SEQ4003	1.E-02	1.3	FTD	lnc-TBC1D31-3:1	SEQ5594	2.E-04	0.6
msAD	lnc-DEGS2-2:2	SEQ4003	2.E-02	1.2	DLB	lnc-TBX19-2:1	SEQ5795	6.E-05	1.7
DLB	lnc-DENND1A-5:1	SEQ3185	8.E-05	1.6	DLB	lnc-TBX2-7:1	SEQ5201	5.E-04	1.8
MCI	lnc-DENND3-7:1	SEQ4306	2.E-04	1.7	MCI	lnc-TBX2-7:1	SEQ5201	5.E-04	1.7
DLB	lnc-DENND3-7:1	SEQ4306	3.E-04	1.6	DLB	lnc-TBXA2R-2:1	SEQ4459	2.E-03	2.5
msAD	lnc-DENND3-7:1	SEQ4306	7.E-03	1.3	FTD	lnc-TC2N-1:1	SEQ4893	9.E-04	0.6
All AD	lnc-DENND3-7:1	SEQ4306	2.E-02	1.2	FTD	lnc-TCEANC2-1:1	SEQ5000	8.E-04	0.7
DLB	lnc-DENND3-9:1	SEQ4263	3.E-04	1.7	All AD	lnc-TCF19-1:104	SEQ5768	4.E-02	0.7
MCI	lnc-DENND3-9:1	SEQ4263	8.E-04	1.8	FTD	lnc-TCF19-1:107	SEQ5466	3.E-04	0.6
msAD	lnc-DENND3-9:1	SEQ4263	9.E-03	1.3	All AD	lnc-TCF19-1:107	SEQ5466	3.E-02	0.7
All AD	lnc-DENND3-9:1	SEQ4263	2.E-02	1.2	DLB	lnc-TCF7-1:3	SEQ0990	2.E-04	1.4
DLB	lnc-DFNB59-2:28	SEQ5937	1.E-05	2.4	MCI	lnc-TCFL5-6:1	SEQ5564	1.E-04	1.5
DLB	lnc-DHRS7B-7:2	SEQ5187	5.E-04	1.5	FTD	lnc-TCFL5-6:1	SEQ5564	2.E-04	1.3
DLB	lnc-DHRSX-1:6	SEQ5311	4.E-04	1.4	DLB	lnc-TCFL5-6:1	SEQ5564	2.E-04	1.5
FTD	lnc-DHX33-1:1	SEQ2533	6.E-04	0.7	All AD	lnc-TCP1-4:1	SEQ5772	1.E-02	0.8
msAD	lnc-DHX38-4:13	SEQ2803	5.E-02	1.2	DLB	lnc-TCTA-1:1	SEQ4966	8.E-04	1.6
DLB	lnc-DLGAP5-2:1	SEQ2566	9.E-04	1.3	FTD	lnc-TCTA-2:1	SEQ2757	1.E-05	0.7
DLB	lnc-DMTN-5:1	SEQ5269	2.E-05	1.8	MCI	lnc-TCTA-2:1	SEQ2757	7.E-04	0.8
MCI	lnc-DMTN-5:1	SEQ5269	5.E-04	1.6	All AD	lnc-TCTN3-2:1	SEQ5775	3.E-02	0.8
All AD	lnc-DMXL1-7:1	SEQ4018	1.E-02	1.2	FTD	lnc-TDP1-6:2	SEQ5680	1.E-04	0.5
msAD	lnc-DMXL1-7:1	SEQ4018	2.E-02	1.2	miAD	lnc-TEAD2-2:4	SEQ3500	8.E-03	1.3
MCI	lnc-DNAH10OS-6:1	SEQ5010	7.E-04	0.5	All AD	lnc-TEAD2-2:4	SEQ3500	9.E-03	1.3
DLB	lnc-DNAH10OS-8:2	SEQ5044	7.E-04	1.7	msAD	lnc-TEAD2-2:4	SEQ3500	4.E-02	1.2
DLB	lnc-DNAJA1-1:1	SEQ5797	6.E-05	1.9	MCI	lnc-TEC-2:1	SEQ5141	5.E-05	1.8
msAD	lnc-DNAJC15-5:1	SEQ3843	3.E-02	0.6	FTD	lnc-TEC-2:1	SEQ5141	2.E-04	1.6
msAD	lnc-DNAJC15-6:1	SEQ3924	3.E-02	0.6	DLB	lnc-TEC-2:1	SEQ5141	6.E-04	1.8
All AD	lnc-DNAJC15-6:1	SEQ3924	3.E-02	0.6	DLB	lnc-TEF-1:1	SEQ3075	5.E-05	1.6
DLB	lnc-DNAJC16-1:2	SEQ4625	1.E-03	1.4	MCI	lnc-TEF-1:1	SEQ3075	7.E-04	1.5
FTD	lnc-DNAJC19-8:1	SEQ5867	4.E-05	0.6	DLB	lnc-TEKT2-1:2	SEQ4568	2.E-03	1.4
DLB	lnc-DNAJC5-1:3	SEQ5372	3.E-04	1.4	DLB	lnc-TELO2-3:2	SEQ2887	4.E-07	2.1

FTD	lnc-DNAJC5B-1:3	SEQ5405	3.E-04	0.6	MCI	lnc-TELO2-3:2	SEQ2887	1.E-05	2.0
DLB	lnc-DNAJC7-1:1	SEQ4518	9.E-06	1.6	DLB	lnc-TELO2-3:3	SEQ5003	4.E-06	1.7
All AD	lnc-DNAJC7-1:1	SEQ4518	5.E-02	1.1	MCI	lnc-TELO2-3:3	SEQ5003	2.E-05	1.6
DLB	lnc-DNAL1-2:1	SEQ4509	2.E-03	1.5	FTD	lnc-TELO2-3:3	SEQ5003	8.E-04	1.3
MCI	lnc-DNAL4-4:1	SEQ3095	4.E-05	1.7	FTD	lnc-TENM1-6:1	SEQ3849	1.E-05	0.5
DLB	lnc-DNAL4-4:1	SEQ3095	1.E-04	1.8	miAD	lnc-TENM1-6:1	SEQ3849	1.E-03	0.6
DLB	lnc-DNASE1L2-2:11	SEQ5947	9.E-06	1.7	All AD	lnc-TENM1-6:1	SEQ3849	3.E-03	0.6
DLB	lnc-DNASE1L2-2:12	SEQ4422	2.E-04	1.7	msAD	lnc-TENM1-6:1	SEQ3849	3.E-02	0.6
MCI	lnc-DNASE1L2-2:12	SEQ4422	2.E-03	1.4	All AD	lnc-TEX37-1:1	SEQ2655	4.E-02	1.2
FTD	lnc-DOCK11-1:1	SEQ5358	4.E-04	0.7	All AD	lnc-TEX37-1:2	SEQ2654	4.E-02	1.2
FTD	lnc-DOCK7-7:1	SEQ0015	3.E-05	0.6	DLB	lnc-TFDP2-5:1	SEQ4709	1.E-03	1.5
DLB	lnc-DOLPP1-3:1	SEQ4598	1.E-04	1.6	DLB	lnc-TFEC-7:1	SEQ4248	8.E-05	1.4
MCI	lnc-DOLPP1-3:1	SEQ4598	2.E-03	1.8	MCI	lnc-TFEC-7:1	SEQ4248	1.E-03	1.3
FTD	lnc-DPP4-10:1	SEQ5512	2.E-04	0.6	All AD	lnc-TFEC-7:1	SEQ4248	4.E-03	1.2
DLB	lnc-DPP7-1:1	SEQ4708	1.E-03	1.5	msAD	lnc-TFEC-7:1	SEQ4248	8.E-03	1.2
DLB	lnc-DR1-2:1	SEQ4684	1.E-03	1.4	miAD	lnc-TFEC-7:1	SEQ4248	9.E-03	1.2
FTD	lnc-DR1-2:2	SEQ5300	4.E-04	0.8	DLB	lnc-TFPT-1:1	SEQ4694	1.E-03	1.4
miAD	lnc-DRD2-1:7	SEQ3704	1.E-02	0.6	FTD	lnc-TGFBR2-1:1	SEQ5419	3.E-04	0.7
All AD	lnc-DRD2-1:7	SEQ3704	1.E-02	0.6	FTD	lnc-TGM5-1:3	SEQ5787	8.E-08	0.5
msAD	lnc-DRD2-1:7	SEQ3704	5.E-02	0.7	MCI	lnc-TGM5-1:3	SEQ5787	6.E-05	0.6
DLB	lnc-DRD5-23:2	SEQ5314	4.E-04	1.4	All AD	lnc-TGM5-1:3	SEQ5787	5.E-02	0.7
msAD	lnc-DRD5-29:1	SEQ3847	3.E-02	1.6	FTD	lnc-TGM5-1:5	SEQ6001	3.E-07	4.1
DLB	lnc-DRICH1-3:10	SEQ4972	1.E-04	1.7	DLB	lnc-TGM6-4:1	SEQ3919	1.E-03	1.5
MCI	lnc-DRICH1-3:10	SEQ4972	8.E-04	1.7	All AD	lnc-TGM6-4:1	SEQ3919	2.E-02	1.2
FTD	lnc-DRICH1-3:9	SEQ4454	6.E-04	1.6	msAD	lnc-TGM6-4:1	SEQ3919	3.E-02	1.2
DLB	lnc-DRICH1-3:9	SEQ4454	7.E-04	1.8	All AD	lnc-TGS1-1:2	SEQ5789	4.E-02	0.6
MCI	lnc-DRICH1-3:9	SEQ4454	2.E-03	1.7	msAD	lnc-THBS1-7:1	SEQ3779	4.E-02	1.3
DLB	lnc-DSCR3-2:2	SEQ4408	1.E-04	1.5	DLB	lnc-THTPA-2:27	SEQ5732	9.E-05	1.5
MCI	lnc-DSCR3-2:2	SEQ4408	2.E-03	1.4	DLB	lnc-THTPA-2:28	SEQ5733	9.E-05	1.5
FTD	lnc-DSCR8-4:1	SEQ4538	2.E-04	0.5	DLB	lnc-THTPA-2:33	SEQ5731	9.E-05	1.5
All AD	lnc-DSCR8-4:1	SEQ4538	3.E-02	0.6	FTD	lnc-THUMPD2-2:1	SEQ3837	3.E-04	0.5
FTD	lnc-DTNBP1-14:1	SEQ4539	2.E-05	0.6	miAD	lnc-THUMPD2-2:1	SEQ3837	9.E-03	0.6
All AD	lnc-DTNBP1-14:1	SEQ4539	3.E-02	0.7	All AD	lnc-THUMPD2-2:1	SEQ3837	9.E-03	0.6
msAD	lnc-DTNBP1-5:22	SEQ3658	5.E-02	1.5	msAD	lnc-THUMPD2-2:1	SEQ3837	3.E-02	0.8
DLB	lnc-DTYMK-1:2	SEQ5043	4.E-05	1.7	FTD	lnc-THUMPD3-6:1	SEQ4222	1.E-06	0.6
MCI	lnc-DTYMK-1:2	SEQ5043	7.E-04	1.7	miAD	lnc-THUMPD3-6:1	SEQ4222	1.E-02	0.7
DLB	lnc-DUSP28-1:1	SEQ4846	9.E-04	1.5	DLB	lnc-TICAM1-1:2	SEQ5514	4.E-06	1.4
FTD	lnc-DUXA-4:1	SEQ2603	5.E-07	0.5	MCI	lnc-TICAM1-1:2	SEQ5514	2.E-04	1.3
All AD	lnc-DUXA-4:1	SEQ2603	4.E-02	0.7	All AD	lnc-TICAM1-1:2	SEQ5514	3.E-02	1.1
DLB	lnc-DYNLL2-3:1	SEQ3803	2.E-05	1.4	DLB	lnc-TIGD1-1:16	SEQ5522	2.E-04	1.4
All AD	lnc-DYNLL2-3:1	SEQ3803	4.E-02	1.1	FTD	lnc-TIGD4-3:1	SEQ5397	3.E-04	0.6

msAD	lnc-DYNLL2-3:1	SEQ3803	4.E-02	1.1	DLB	lnc-TIGD5-1:1	SEQ2945	6.E-05	1.7
MCI	lnc-DYNLL2-4:1	SEQ4868	9.E-04	1.6	All AD	lnc-TIGD5-1:1	SEQ2945	3.E-02	1.2
DLB	lnc-DYNLT1-1:1	SEQ4431	2.E-03	1.5	msAD	lnc-TIGD5-1:1	SEQ2945	4.E-02	1.2
FTD	lnc-DYSF-2:2	SEQ5779	7.E-05	0.6	All AD	lnc-TIMM9-4:1	SEQ4177	3.E-03	1.8
FTD	lnc-DYSF-4:1	SEQ3751	7.E-05	0.6	miAD	lnc-TIMM9-4:1	SEQ4177	4.E-03	2.0
miAD	lnc-DYSF-4:1	SEQ3751	2.E-03	0.7	msAD	lnc-TIMM9-4:1	SEQ4177	1.E-02	1.6
All AD	lnc-DYSF-4:1	SEQ3751	5.E-03	0.7	All AD	lnc-TLCD1-1:2	SEQ5796	4.E-02	1.1
msAD	lnc-DYSF-4:1	SEQ3751	4.E-02	0.7	DLB	lnc-TLDC2-4:1	SEQ0555	9.E-05	1.7
MCI	lnc-EBLN1-1:1	SEQ3983	1.E-04	1.7	MCI	lnc-TLR10-2:1	SEQ4427	2.E-03	1.5
FTD	lnc-EBLN1-1:1	SEQ3983	7.E-04	1.7	FTD	lnc-TLR1-1:1	SEQ5944	3.E-08	0.4
DLB	lnc-EBLN1-1:1	SEQ3983	9.E-04	1.8	MCI	lnc-TLR1-1:1	SEQ5944	4.E-07	0.4
msAD	lnc-EBLN1-1:1	SEQ3983	2.E-02	1.3	DLB	lnc-TLR1-1:1	SEQ5944	9.E-06	0.4
All AD	lnc-EBLN1-1:2	SEQ4545	4.E-02	1.3	FTD	lnc-TLR1-1:4	SEQ3887	7.E-07	0.5
All AD	lnc-EBPL-1:1	SEQ4546	3.E-02	0.8	All AD	lnc-TLR1-1:4	SEQ3887	2.E-02	0.7
miAD	lnc-ECE1-1:1	SEQ4182	1.E-02	0.6	msAD	lnc-TLR1-1:4	SEQ3887	3.E-02	0.7
All AD	lnc-ECE1-1:1	SEQ4182	1.E-02	0.7	MCI	lnc-TMA16-1:1	SEQ4896	8.E-04	0.6
DLB	lnc-ECSCR-2:5	SEQ5431	8.E-05	1.6	FTD	lnc-TMA16-1:1	SEQ4896	9.E-04	0.6
MCI	lnc-ECSCR-2:5	SEQ5431	3.E-04	1.4	FTD	lnc-TMC5-1:1	SEQ4737	8.E-06	0.7
MCI	lnc-EDC3-2:10	SEQ5714	1.E-04	3.1	MCI	lnc-TMC5-1:1	SEQ4737	1.E-04	0.7
MCI	lnc-EDC3-2:16	SEQ4760	1.E-03	1.5	DLB	lnc-TMC5-1:1	SEQ4737	1.E-03	0.8
All AD	lnc-EDEM3-7:3	SEQ0272	3.E-02	0.7	All AD	lnc-TMC5-1:1	SEQ4737	3.E-02	0.9
msAD	lnc-EDEM3-7:3	SEQ0272	5.E-02	0.7	DLB	lnc-TMEM105-1:1	SEQ4951	8.E-04	1.5
DLB	lnc-EFCAB12-2:16	SEQ5894	2.E-05	1.7	DLB	lnc-TMEM109-2:1	SEQ5133	2.E-04	1.9
DLB	lnc-EFCAB12-2:4	SEQ4612	1.E-03	1.3	MCI	lnc-TMEM109-2:1	SEQ5133	6.E-04	1.6
DLB	lnc-EFCAB12-2:8	SEQ4436	2.E-03	1.5	DLB	lnc-TMEM120B-4:2	SEQ4586	2.E-03	1.6
DLB	lnc-EFCAB8-1:3	SEQ3380	5.E-04	1.4	DLB	lnc-TMEM120B-4:4	SEQ4853	9.E-04	1.5
DLB	lnc-EFCAB9-5:2	SEQ4496	2.E-03	1.4	DLB	lnc-TMEM121-2:15	SEQ4057	2.E-03	2.3
FTD	lnc-EFHB-6:1	SEQ4989	8.E-04	0.5	All AD	lnc-TMEM121-2:15	SEQ4057	1.E-02	1.6
FTD	lnc-EFR3A-6:1	SEQ5956	7.E-06	0.6	msAD	lnc-TMEM121-2:15	SEQ4057	2.E-02	1.6
MCI	lnc-EGFL7-3:1	SEQ4645	1.E-03	1.6	DLB	lnc-TMEM121-2:16	SEQ4214	8.E-04	1.8
miAD	lnc-EGR2-5:1	SEQ4460	2.E-03	0.6	All AD	lnc-TMEM121-2:16	SEQ4214	3.E-03	1.4
All AD	lnc-EGR2-5:1	SEQ4460	6.E-03	0.6	miAD	lnc-TMEM121-2:16	SEQ4214	3.E-03	1.5
DLB	lnc-EIF1AD-1:1	SEQ2653	5.E-04	1.4	msAD	lnc-TMEM121-2:16	SEQ4214	1.E-02	1.3
All AD	lnc-EIF2AK3-26:2	SEQ4334	2.E-03	1.3	DLB	lnc-TMEM121-2:17	SEQ4379	5.E-04	3.6
msAD	lnc-EIF2AK3-26:2	SEQ4334	4.E-03	1.1	All AD	lnc-TMEM121-2:17	SEQ4379	6.E-04	2.3
miAD	lnc-EIF2AK3-26:2	SEQ4334	6.E-03	1.5	msAD	lnc-TMEM121-2:17	SEQ4379	1.E-03	2.5
DLB	lnc-EIF2AK3-4:58	SEQ4358	1.E-03	3.1	miAD	lnc-TMEM121-2:17	SEQ4379	3.E-03	2.1
miAD	lnc-EIF2AK3-4:58	SEQ4358	4.E-03	1.9	msAD	lnc-TMEM121-2:19	SEQ3733	4.E-02	1.5

All AD	lnc-EIF2AK3-4:58	SEQ4358	2.E-02	1.7	miAD	lnc-TMEM121-2:20	SEQ4041	3.E-03	1.7
DLB	lnc-EIF2AK3-4:59	SEQ4232	2.E-04	2.8	All AD	lnc-TMEM121-2:20	SEQ4041	4.E-03	1.7
FTD	lnc-EIF2AK3-4:59	SEQ4232	6.E-04	2.8	msAD	lnc-TMEM121-2:20	SEQ4041	2.E-02	1.6
msAD	lnc-EIF2AK3-4:59	SEQ4232	1.E-02	1.7	All AD	lnc-TMEM121-2:21	SEQ5806	4.E-02	1.4
All AD	lnc-EIF2AK3-4:59	SEQ4232	1.E-02	1.6	miAD	lnc-TMEM132D-5:1	SEQ4212	1.E-02	0.7
DLB	lnc-EIF2AK3-4:65	SEQ3873	4.E-05	2.4	All AD	lnc-TMEM132D-5:1	SEQ4212	2.E-02	0.8
MCI	lnc-EIF2AK3-4:65	SEQ3873	1.E-03	1.8	All AD	lnc-TMEM140-1:2	SEQ5808	3.E-02	0.7
All AD	lnc-EIF2AK3-4:65	SEQ3873	1.E-02	1.1	FTD	lnc-TMEM155-3:1	SEQ3556	7.E-06	0.5
msAD	lnc-EIF2AK3-4:65	SEQ3873	3.E-02	1.1	MCI	lnc-TMEM155-3:1	SEQ3556	2.E-05	0.5
miAD	lnc-EIF2AK3-4:75	SEQ4250	9.E-03	1.4	DLB	lnc-TMEM160-1:1	SEQ5181	5.E-04	1.4
All AD	lnc-EIF2AK3-4:75	SEQ4250	1.E-02	1.3	MCI	lnc-TMEM167B-1:2	SEQ4004	7.E-07	2.4
All AD	lnc-EIF2AK3-4:77	SEQ4571	4.E-02	1.2	FTD	lnc-TMEM167B-1:2	SEQ4004	2.E-06	2.0
MCI	lnc-EIF2B1-1:1	SEQ2595	2.E-05	1.5	DLB	lnc-TMEM167B-1:2	SEQ4004	1.E-04	2.1
FTD	lnc-EIF2B1-1:1	SEQ2595	3.E-04	1.3	miAD	lnc-TMEM167B-1:2	SEQ4004	4.E-03	1.3
All AD	lnc-EIF2B1-1:1	SEQ2595	3.E-02	1.2	All AD	lnc-TMEM167B-1:2	SEQ4004	4.E-03	1.3
DLB	lnc-EIF2D-3:1	SEQ4850	9.E-04	1.5	msAD	lnc-TMEM167B-1:2	SEQ4004	2.E-02	1.2
FTD	lnc-EIF2S3-1:1	SEQ5351	4.E-04	0.6	MCI	lnc-TMEM167B-1:3	SEQ5635	1.E-06	2.2
DLB	lnc-EIF3B-2:3	SEQ3940	1.E-05	1.8	FTD	lnc-TMEM167B-1:3	SEQ5635	2.E-05	1.7
MCI	lnc-EIF3B-2:3	SEQ3940	2.E-05	1.5	DLB	lnc-TMEM167B-1:3	SEQ5635	2.E-04	1.9
miAD	lnc-EIF3B-2:3	SEQ3940	4.E-04	1.3	All AD	lnc-TMEM167B-1:3	SEQ5635	2.E-02	1.2
FTD	lnc-EIF3B-2:3	SEQ3940	8.E-04	1.3	MCI	lnc-TMEM167B-1:4	SEQ5541	3.E-06	2.1
All AD	lnc-EIF3B-2:3	SEQ3940	2.E-03	1.2	FTD	lnc-TMEM167B-1:4	SEQ5541	2.E-04	1.7
msAD	lnc-EIF3B-2:3	SEQ3940	3.E-02	1.2	DLB	lnc-TMEM167B-1:4	SEQ5541	2.E-04	2.0
miAD	lnc-EIF4E3-2:1	SEQ4132	1.E-02	0.6	All AD	lnc-TMEM167B-1:4	SEQ5541	4.E-02	1.2
All AD	lnc-EIF4E3-2:1	SEQ4132	1.E-02	0.7	FTD	lnc-TMEM167B-1:5	SEQ3821	2.E-06	1.9
All AD	lnc-EIF4E3-2:2	SEQ4579	3.E-02	0.7	MCI	lnc-TMEM167B-1:5	SEQ3821	6.E-06	2.4
DLB	lnc-EIF4ENIF1-3:1	SEQ3788	3.E-04	1.6	DLB	lnc-TMEM167B-1:5	SEQ3821	2.E-04	2.2
MCI	lnc-EIF4ENIF1-3:1	SEQ3788	2.E-03	1.4	All AD	lnc-TMEM167B-1:5	SEQ3821	1.E-02	1.2
msAD	lnc-EIF4ENIF1-3:1	SEQ3788	4.E-02	1.2	miAD	lnc-TMEM167B-1:5	SEQ3821	1.E-02	1.3
All AD	lnc-EIF4G3-4:1	SEQ4581	3.E-02	0.8	msAD	lnc-TMEM167B-1:5	SEQ3821	4.E-02	1.2
MCI	lnc-EIF5-2:1	SEQ2571	1.E-05	1.7	DLB	lnc-TMEM173-3:3	SEQ5194	5.E-04	1.6
DLB	lnc-EIF5-2:1	SEQ2571	5.E-05	1.9	FTD	lnc-TMEM178A-5:1	SEQ4104	1.E-04	0.5
FTD	lnc-EIF5-2:1	SEQ2571	1.E-04	1.4	miAD	lnc-TMEM178A-5:1	SEQ4104	1.E-02	0.6

All AD	lnc-EIF5-2:1	SEQ2571	2.E-02	1.1	All AD	lnc-TMEM178A-5:1	SEQ4104	3.E-02	0.7
msAD	lnc-EIF5-2:1	SEQ2571	3.E-02	1.1	FTD	lnc-TMEM178A-6:5	SEQ3797	3.E-05	0.5
FTD	lnc-ELF2-5:2	SEQ4109	1.E-04	0.6	miAD	lnc-TMEM178A-6:5	SEQ3797	5.E-03	0.5
miAD	lnc-ELF2-5:2	SEQ4109	1.E-02	0.7	All AD	lnc-TMEM178A-6:5	SEQ3797	7.E-03	0.6
All AD	lnc-ELF2-5:2	SEQ4109	3.E-02	0.7	msAD	lnc-TMEM178A-6:5	SEQ3797	4.E-02	0.6
DLB	lnc-ELFN1-3:2	SEQ4585	3.E-05	1.7	msAD	lnc-TMEM183A-1:1	SEQ3991	2.E-02	1.2
All AD	lnc-ELFN1-3:2	SEQ4585	4.E-02	1.2	All AD	lnc-TMEM185B-1:6	SEQ5817	5.E-02	0.8
DLB	lnc-ELFN1-6:2	SEQ4594	2.E-04	1.9	msAD	lnc-TMEM185B-12:2	SEQ4025	2.E-02	0.5
MCI	lnc-ELFN1-6:2	SEQ4594	2.E-03	1.7	All AD	lnc-TMEM185B-12:2	SEQ4025	2.E-02	0.6
MCI	lnc-ELL3-1:2	SEQ4383	2.E-06	1.7	All AD	lnc-TMEM185B-12:3	SEQ4226	8.E-03	0.6
FTD	lnc-ELL3-1:2	SEQ4383	8.E-06	1.6	msAD	lnc-TMEM185B-12:3	SEQ4226	1.E-02	0.5
DLB	lnc-ELL3-1:2	SEQ4383	9.E-05	1.7	msAD	lnc-TMEM186-1:2	SEQ2702	2.E-02	1.3
miAD	lnc-ELL3-1:2	SEQ4383	4.E-04	1.3	DLB	lnc-TMEM202-2:2	SEQ5373	3.E-04	1.5
All AD	lnc-ELL3-1:2	SEQ4383	4.E-04	1.3	FTD	lnc-TMEM206-3:2	SEQ3714	4.E-05	0.6
msAD	lnc-ELL3-1:2	SEQ4383	3.E-03	1.3	miAD	lnc-TMEM206-3:2	SEQ3714	1.E-02	0.7
FTD	lnc-EMC3-2:1	SEQ4593	2.E-04	0.7	All AD	lnc-TMEM206-3:2	SEQ3714	1.E-02	0.7
All AD	lnc-EMC3-2:1	SEQ4593	3.E-02	0.8	msAD	lnc-TMEM206-3:2	SEQ3714	4.E-02	0.8
FTD	lnc-EMCN-4:1	SEQ4137	1.E-04	0.6	All AD	lnc-TMEM212-5:1	SEQ5819	4.E-02	0.8
miAD	lnc-EMCN-4:1	SEQ4137	1.E-02	0.7	DLB	lnc-TMEM231-2:1	SEQ5792	6.E-05	1.6
All AD	lnc-EMCN-4:1	SEQ4137	3.E-02	0.8	DLB	lnc-TMEM234-4:1	SEQ5877	3.E-05	1.6
All AD	lnc-EME2-1:1	SEQ3682	2.E-02	1.2	DLB	lnc-TMEM240-1:1	SEQ4946	8.E-04	1.5
msAD	lnc-EME2-1:1	SEQ3682	5.E-02	1.2	All AD	lnc-TMEM255B-5:13	SEQ5820	3.E-02	1.5
MCI	lnc-EMG1-1:1	SEQ4928	8.E-04	1.4	FTD	lnc-TMEM30B-9:1	SEQ4108	6.E-11	0.3
DLB	lnc-EMG1-1:2	SEQ5636	2.E-04	1.9	MCI	lnc-TMEM30B-9:1	SEQ4108	7.E-06	0.4
All AD	lnc-EML6-6:1	SEQ3684	3.E-02	1.2	DLB	lnc-TMEM30B-9:1	SEQ4108	2.E-03	0.4
msAD	lnc-EML6-6:1	SEQ3684	5.E-02	1.2	miAD	lnc-TMEM30B-9:1	SEQ4108	1.E-02	0.6
FTD	lnc-EMX2-3:4	SEQ5359	4.E-04	0.7	FTD	lnc-TMEM43-1:4	SEQ5285	4.E-04	0.5
DLB	lnc-ENC1-5:1	SEQ2244	2.E-03	1.7	DLB	lnc-TMEM50B-4:2	SEQ4870	9.E-04	1.7
All AD	lnc-ENOPH1-3:3	SEQ3381	3.E-03	1.2	All AD	lnc-TMEM63A-2:1	SEQ5822	3.E-02	1.2
miAD	lnc-ENOPH1-3:3	SEQ3381	3.E-03	1.3	DLB	lnc-TMEM88B-6:1	SEQ5055	2.E-05	3.8
msAD	lnc-ENOPH1-3:3	SEQ3381	1.E-02	1.2	MCI	lnc-TMEM88B-6:1	SEQ5055	7.E-04	2.7
DLB	lnc-EPHA1-1:4	SEQ5276	5.E-04	1.7	FTD	lnc-TMTC3-13:11	SEQ3765	2.E-05	0.6
DLB	lnc-EPHA6-7:1	SEQ4574	1.E-05	1.7	miAD	lnc-TMTC3-13:11	SEQ3765	9.E-03	0.7
MCI	lnc-EPHA6-7:1	SEQ4574	2.E-03	1.5	All AD	lnc-TMTC3-13:11	SEQ3765	1.E-02	0.7
FTD	lnc-EPHB3-5:1	SEQ4809	1.E-03	0.7	msAD	lnc-TMTC3-13:11	SEQ3765	4.E-02	0.7

DLB	lnc-EPM2AIP1-5:2	SEQ4648	1.E-03	1.7	DLB	lnc-TMUB2-1:11	SEQ5664	1.E-04	1.5
FTD	lnc-EPN2-3:2	SEQ4005	2.E-06	2.9	DLB	lnc-TMUB2-2:1	SEQ5814	5.E-05	1.5
DLB	lnc-EPN2-3:2	SEQ4005	2.E-04	2.5	All AD	lnc-TNFAIP6-5:1	SEQ5824	5.E-02	0.7
MCI	lnc-EPN2-3:2	SEQ4005	5.E-04	2.2	DLB	lnc-TNFAIP8L1-2:1	SEQ4950	8.E-04	1.5
msAD	lnc-EPN2-3:2	SEQ4005	2.E-02	1.2	All AD	lnc-TNFAIP8L1-2:1	SEQ4950	4.E-02	1.2
All AD	lnc-EPN2-3:2	SEQ4005	2.E-02	1.2	FTD	lnc-TNFRSF11A-5:1	SEQ5825	8.E-08	0.5
FTD	lnc-EPN2-3:3	SEQ5074	7.E-04	1.8	All AD	lnc-TNFRSF11A-5:1	SEQ5825	2.E-02	0.7
FTD	lnc-ERAP2-4:3	SEQ5601	2.E-04	0.6	DLB	lnc-TNFRSF13C-1:1	SEQ4142	3.E-04	2.2
DLB	lnc-ERCC6L2-14:1	SEQ3383	2.E-04	1.5	All AD	lnc-TNFRSF13C-1:1	SEQ4142	3.E-03	1.5
MCI	lnc-ERCC6L2-14:1	SEQ3383	8.E-04	1.4	msAD	lnc-TNFRSF13C-1:1	SEQ4142	4.E-03	1.6
miAD	lnc-ERCC6L2-14:1	SEQ3383	8.E-03	1.2	miAD	lnc-TNFRSF13C-1:1	SEQ4142	1.E-02	1.4
All AD	lnc-ERCC6L2-14:1	SEQ3383	9.E-03	1.2	miAD	lnc-TNFRSF14-2:7	SEQ4234	1.E-02	0.5
msAD	lnc-ERCC6L2-14:1	SEQ3383	4.E-02	1.2	All AD	lnc-TNFRSF14-2:7	SEQ4234	1.E-02	0.6
FTD	lnc-ERRFI1-3:1	SEQ5607	2.E-04	0.7	MCI	lnc-TNFRSF14-4:2	SEQ5213	4.E-07	1.9
DLB	lnc-ERV3-1-1:4	SEQ4405	2.E-03	1.3	FTD	lnc-TNFRSF14-4:2	SEQ5213	5.E-06	1.7
FTD	lnc-ERV3-1-2:1	SEQ3853	1.E-04	0.6	miAD	lnc-TNFRSF14-4:2	SEQ5213	4.E-04	1.5
miAD	lnc-ERV3-1-2:1	SEQ3853	4.E-03	0.7	DLB	lnc-TNFRSF14-4:2	SEQ5213	5.E-04	1.9
All AD	lnc-ERV3-1-2:1	SEQ3853	6.E-03	0.7	All AD	lnc-TNFRSF14-4:2	SEQ5213	3.E-03	1.4
msAD	lnc-ERV3-1-2:1	SEQ3853	3.E-02	0.8	msAD	lnc-TNFRSF1A-3:1	SEQ3977	2.E-02	0.7
miAD	lnc-ESM1-3:3	SEQ4203	1.E-02	0.6	All AD	lnc-TNFRSF1A-3:1	SEQ3977	3.E-02	0.7
DLB	lnc-ESRP2-4:1	SEQ4417	2.E-03	1.4	DLB	lnc-TNFRSF8-2:1	SEQ4710	1.E-03	1.5
DLB	lnc-ESRRB-1:1	SEQ4575	9.E-04	1.4	FTD	lnc-TNFSF4-3:2	SEQ5063	7.E-04	0.6
MCI	lnc-ESRRB-1:1	SEQ4575	2.E-03	1.5	All AD	lnc-TNFSF4-3:2	SEQ5063	4.E-02	0.7
FTD	lnc-ESRRB-3:1	SEQ4912	9.E-04	0.7	DLB	lnc-TNIP2-1:1	SEQ4845	9.E-04	1.4
MCI	lnc-EVL-6:10	SEQ4872	1.E-04	1.7	All AD	lnc-TNRC6A-3:2	SEQ5831	3.E-02	1.2
DLB	lnc-EVL-6:10	SEQ4872	9.E-04	1.7	MCI	lnc-TNRC6C-3:1	SEQ5627	2.E-05	1.9
FTD	lnc-EVPL-1:1	SEQ4064	1.E-04	0.5	DLB	lnc-TNRC6C-3:1	SEQ5627	2.E-04	1.7
All AD	lnc-EVPL-1:1	SEQ4064	5.E-03	0.6	FTD	lnc-TOB1-4:1	SEQ5647	1.E-04	0.7
miAD	lnc-EVPL-1:1	SEQ4064	7.E-03	0.6	MCI	lnc-TOB2-2:1	SEQ3968	2.E-04	1.4
msAD	lnc-EVPL-1:1	SEQ4064	2.E-02	0.7	DLB	lnc-TOB2-2:1	SEQ3968	2.E-03	1.4
DLB	lnc-EVX1-15:1	SEQ2412	4.E-05	1.3	msAD	lnc-TOB2-2:1	SEQ3968	2.E-02	1.2
DLB	lnc-EVX2-8:1	SEQ4082	2.E-04	1.7	All AD	lnc-TOMM20-2:22	SEQ5835	4.E-02	0.7
miAD	lnc-EVX2-8:1	SEQ4082	1.E-02	1.3	DLB	lnc-TOMM22-2:2	SEQ4766	9.E-04	1.4
All AD	lnc-EVX2-8:1	SEQ4082	3.E-02	1.2	MCI	lnc-TOMM22-2:2	SEQ4766	1.E-03	1.5
All AD	lnc-EXOSC1-1:2	SEQ4611	5.E-02	0.8	DLB	lnc-TOR1AIP1-2:1	SEQ2565	1.E-03	1.7
FTD	lnc-EXOSC6-1:2	SEQ3300	5.E-05	0.6	FTD	lnc-TOX4-4:2	SEQ2696	4.E-05	0.6
DLB	lnc-EXOSC6-1:6	SEQ5218	4.E-04	2.4	DLB	lnc-TOX4-4:2	SEQ2696	6.E-04	0.7
MCI	lnc-EXOSC6-1:6	SEQ5218	5.E-04	2.4	miAD	lnc-TOX4-4:2	SEQ2696	5.E-03	0.7

All AD	lnc-EXOSC8-4:1	SEQ4615	5.E-02	0.7	All AD	lnc-TOX4-4:2	SEQ2696	3.E-02	0.8
FTD	lnc-EXTL2-2:1	SEQ5225	5.E-04	0.6	All AD	lnc-TP53BP2-8:2	SEQ5838	3.E-02	0.7
FTD	lnc-F2RL2-1:2	SEQ3827	3.E-06	0.5	MCI	lnc-TP53TG5-3:1	SEQ4914	6.E-06	1.9
miAD	lnc-F2RL2-1:2	SEQ3827	9.E-03	0.7	DLB	lnc-TP53TG5-3:1	SEQ4914	4.E-05	1.8
All AD	lnc-F2RL2-1:2	SEQ3827	9.E-03	0.7	FTD	lnc-TP53TG5-3:1	SEQ4914	9.E-04	1.4
msAD	lnc-F2RL2-1:2	SEQ3827	4.E-02	0.8	DLB	lnc-TPBGL-2:1	SEQ4424	2.E-03	1.5
DLB	lnc-FAAP100-2:1	SEQ2299	5.E-04	1.3	MCI	lnc-TPBGL-2:1	SEQ4424	2.E-03	1.5
MCI	lnc-FAAP20-2:1	SEQ2889	4.E-04	1.7	DLB	lnc-TPCN1-1:1	SEQ4584	4.E-04	1.6
DLB	lnc-FAAP20-2:1	SEQ2889	5.E-04	1.7	MCI	lnc-TPCN1-1:1	SEQ4584	2.E-03	1.5
DLB	lnc-FAHD2B-1:1	SEQ5339	4.E-04	1.8	FTD	lnc-TRAF5-8:1	SEQ5763	8.E-05	0.6
DLB	lnc-FAHD2B-1:2	SEQ2915	2.E-04	1.9	All AD	lnc-TRAF6-3:1	SEQ5842	4.E-02	0.8
All AD	lnc-FAM106A-2:10	SEQ2240	7.E-03	0.5	DLB	lnc-TRAPPC2L-2:4	SEQ4777	1.E-03	1.6
miAD	lnc-FAM106A-2:10	SEQ2240	8.E-03	0.5	MCI	lnc-TRDMT1-5:1	SEQ4984	9.E-05	3.6
msAD	lnc-FAM106A-2:10	SEQ2240	3.E-02	0.6	FTD	lnc-TRDMT1-5:1	SEQ4984	2.E-04	2.5
All AD	lnc-FAM106A-2:7	SEQ4623	3.E-02	0.6	DLB	lnc-TRDMT1-5:1	SEQ4984	8.E-04	3.1
DLB	lnc-FAM111B-1:3	SEQ4406	2.E-03	1.3	All AD	lnc-TRDMT1-5:1	SEQ4984	4.E-02	1.4
FTD	lnc-FAM114A1-1:1	SEQ4326	6.E-08	0.5	FTD	lnc-TREML2-4:1	SEQ4995	8.E-04	0.6
MCI	lnc-FAM114A1-1:1	SEQ4326	7.E-04	0.6	DLB	lnc-TREX1-10:5	SEQ5200	5.E-04	1.7
miAD	lnc-FAM114A1-1:1	SEQ4326	6.E-03	0.6	miAD	lnc-TREX1-5:1	SEQ3723	1.E-02	0.8
All AD	lnc-FAM114A1-1:1	SEQ4326	1.E-02	0.7	All AD	lnc-TREX1-5:1	SEQ3723	1.E-02	0.8
All AD	lnc-FAM126B-1:2	SEQ3668	2.E-02	0.8	msAD	lnc-TREX1-5:1	SEQ3723	4.E-02	0.8
msAD	lnc-FAM126B-1:2	SEQ3668	5.E-02	0.8	FTD	lnc-TRIL-3:1	SEQ4347	2.E-04	0.5
FTD	lnc-FAM131B-2:1	SEQ3679	8.E-05	0.5	miAD	lnc-TRIL-3:1	SEQ4347	5.E-03	0.6
miAD	lnc-FAM131B-2:1	SEQ3679	1.E-02	0.6	All AD	lnc-TRIL-3:1	SEQ4347	3.E-02	0.7
All AD	lnc-FAM131B-2:1	SEQ3679	1.E-02	0.6	miAD	lnc-TRIL-3:2	SEQ4206	1.E-02	0.7
msAD	lnc-FAM131B-2:1	SEQ3679	5.E-02	0.6	All AD	lnc-TRIL-3:2	SEQ4206	2.E-02	0.7
FTD	lnc-FAM133B-1:1	SEQ5226	5.E-04	0.6	FTD	lnc-TRIM23-1:1	SEQ5102	1.E-08	0.5
FTD	lnc-FAM13C-5:1	SEQ4372	7.E-05	0.6	MCI	lnc-TRIM23-1:1	SEQ5102	6.E-04	0.5
miAD	lnc-FAM13C-5:1	SEQ4372	4.E-03	0.7	All AD	lnc-TRIM25-1:1	SEQ5849	1.E-02	0.7
All AD	lnc-FAM13C-5:1	SEQ4372	9.E-03	0.7	DLB	lnc-TRIM26-2:27	SEQ4644	1.E-03	1.6
DLB	lnc-FAM156A-1:2	SEQ5434	3.E-04	1.4	MCI	lnc-TRIM26-2:53	SEQ5649	1.E-04	0.1
DLB	lnc-FAM156A-3:5	SEQ5881	3.E-05	1.7	DLB	lnc-TRIM28-13:2	SEQ3581	2.E-03	1.4
FTD	lnc-FAM162A-2:12	SEQ4634	7.E-05	0.7	DLB	lnc-TRIM39-2:1	SEQ5205	5.E-04	1.7
All AD	lnc-FAM162A-2:12	SEQ4634	4.E-02	0.8	FTD	lnc-TRIM55-1:14	SEQ4916	9.E-04	1.8
FTD	lnc-FAM162A-2:6	SEQ6002	8.E-08	0.3	FTD	lnc-TRIM59-1:1	SEQ2766	8.E-07	0.6
FTD	lnc-FAM167A-5:2	SEQ5898	2.E-05	0.5	miAD	lnc-TRIM59-1:1	SEQ2766	1.E-02	0.7
DLB	lnc-FAM167B-2:1	SEQ4453	2.E-03	1.7	All AD	lnc-TRIM59-1:1	SEQ2766	2.E-02	0.8
DLB	lnc-FAM168A-1:1	SEQ4858	9.E-04	1.5	FTD	lnc-TRIM61-6:1	SEQ5220	2.E-04	2.3
FTD	lnc-FAM174A-6:1	SEQ4639	5.E-05	0.5	MCI	lnc-TRIM61-6:1	SEQ5220	5.E-04	2.9
All AD	lnc-FAM174A-6:1	SEQ4639	3.E-02	0.7	DLB	lnc-TRIM62-2:1	SEQ5263	5.E-04	1.6
All AD	lnc-FAM174A-6:6	SEQ4640	5.E-02	0.6	FTD	lnc-TRIM69-2:8	SEQ4814	1.E-03	0.7
FTD	lnc-FAM177B-1:1	SEQ3388	1.E-04	0.6	MCI	lnc-TRIM74-1:6	SEQ4254	7.E-06	3.3
miAD	lnc-FAM177B-1:1	SEQ3388	8.E-03	0.7	DLB	lnc-TRIM74-1:6	SEQ4254	2.E-03	2.0

All AD	lnc-FAM177B-1:1	SEQ3388	1.E-02	0.8	All AD	lnc-TRIM74-1:6	SEQ4254	6.E-03	1.6
DLB	lnc-FAM184B-1:2	SEQ5791	6.E-05	1.5	msAD	lnc-TRIM74-1:6	SEQ4254	9.E-03	1.6
DLB	lnc-FAM187B-3:1	SEQ5109	6.E-04	1.2	FTD	lnc-TRMT10B-4:1	SEQ5609	3.E-07	0.5
FTD	lnc-FAM192A-3:1	SEQ4170	4.E-05	0.6	MCI	lnc-TRMT10B-4:1	SEQ5609	2.E-04	0.6
All AD	lnc-FAM192A-3:1	SEQ4170	3.E-03	0.6	All AD	lnc-TRMT10B-4:1	SEQ5609	2.E-02	0.8
miAD	lnc-FAM192A-3:1	SEQ4170	4.E-03	0.6	FTD	lnc-TRMT10C-3:1	SEQ4398	1.E-07	0.5
msAD	lnc-FAM192A-3:1	SEQ4170	1.E-02	0.6	MCI	lnc-TRMT10C-3:1	SEQ4398	2.E-03	0.7
msAD	lnc-FAM192A-4:1	SEQ4298	7.E-03	0.7	All AD	lnc-TRMT10C-3:1	SEQ4398	2.E-02	0.7
All AD	lnc-FAM192A-4:1	SEQ4298	2.E-02	0.7	FTD	lnc-TRMT10C-4:1	SEQ4992	8.E-04	0.6
msAD	lnc-FAM192A-4:3	SEQ4603	1.E-03	0.7	MCI	lnc-TRMT1-1:1	SEQ4158	7.E-04	1.3
All AD	lnc-FAM192A-4:3	SEQ4603	5.E-03	0.7	miAD	lnc-TRMT1-1:1	SEQ4158	1.E-02	1.1
msAD	lnc-FAM192A-4:5	SEQ4150	1.E-02	0.7	All AD	lnc-TRMT1-1:1	SEQ4158	2.E-02	1.1
All AD	lnc-FAM192A-4:5	SEQ4150	2.E-02	0.7	All AD	lnc-TRMT61B-5:3	SEQ5853	3.E-02	0.8
DLB	lnc-FAM193B-2:1	SEQ5387	3.E-04	1.7	All AD	lnc-TRPC5-3:1	SEQ5854	3.E-02	1.2
FTD	lnc-FAM200A-1:1	SEQ5687	1.E-04	0.6	FTD	lnc-TRPC5OS-5:1	SEQ5597	2.E-04	0.4
FTD	lnc-FAM200B-3:1	SEQ3664	2.E-04	0.7	DLB	lnc-TRPM5-1:1	SEQ4867	9.E-04	1.6
miAD	lnc-FAM200B-3:1	SEQ3664	8.E-03	0.7	DLB	lnc-TRPT1-1:2	SEQ5701	1.E-04	1.7
All AD	lnc-FAM200B-3:1	SEQ3664	1.E-02	0.7	DLB	lnc-TRRAP-1:1	SEQ5570	2.E-04	1.6
msAD	lnc-FAM200B-3:1	SEQ3664	5.E-02	0.7	DLB	lnc-TRRAP-1:4	SEQ5571	2.E-04	1.6
DLB	lnc-FAM207A-7:1	SEQ5711	1.E-04	1.9	MCI	lnc-TRRAP-1:5	SEQ4747	1.E-03	1.4
MCI	lnc-FAM208B-5:3	SEQ3973	2.E-05	1.6	DLB	lnc-TRRAP-1:6	SEQ5628	2.E-04	1.7
FTD	lnc-FAM208B-5:3	SEQ3973	2.E-05	1.5	FTD	lnc-TSPOAP1-1:1	SEQ5299	4.E-04	0.7
DLB	lnc-FAM208B-5:3	SEQ3973	8.E-05	1.7	DLB	lnc-TSPOAP1-1:2	SEQ5674	2.E-05	1.8
All AD	lnc-FAM208B-5:3	SEQ3973	2.E-02	1.2	MCI	lnc-TSPOAP1-1:2	SEQ5674	1.E-04	1.7
msAD	lnc-FAM208B-5:3	SEQ3973	2.E-02	1.2	DLB	lnc-TSPOAP1-1:4	SEQ4597	2.E-03	1.7
FTD	lnc-FAM217A-1:7	SEQ4988	8.E-04	0.5	FTD	lnc-TSPYL5-4:1	SEQ4804	1.E-03	0.6
DLB	lnc-FAM231C-7:7	SEQ5203	3.E-04	1.7	All AD	lnc-TSPYL5-4:1	SEQ4804	3.E-02	0.7
MCI	lnc-FAM231C-7:7	SEQ5203	5.E-04	1.7	DLB	lnc-TSR3-1:2	SEQ0339	1.E-04	1.6
All AD	lnc-FAM3B-3:2	SEQ4659	4.E-02	0.8	MCI	lnc-TSR3-1:2	SEQ0339	3.E-04	1.5
All AD	lnc-FAM49B-1:1	SEQ4660	4.E-02	0.7	MCI	lnc-TSSK2-1:1	SEQ5709	4.E-05	2.0
FTD	lnc-FAM71D-1:2	SEQ4895	9.E-04	0.6	DLB	lnc-TSSK2-1:1	SEQ5709	1.E-04	1.8
DLB	lnc-FAM71E1-2:10	SEQ5752	8.E-05	1.5	DLB	lnc-TSSK3-2:2	SEQ4428	2.E-03	1.5
All AD	lnc-FAM71E1-2:9	SEQ3219	1.E-02	1.3	DLB	lnc-TSSK4-3:2	SEQ5308	4.E-04	1.4
msAD	lnc-FAM71E1-2:9	SEQ3219	2.E-02	1.3	DLB	lnc-TSSK6-1:2	SEQ5823	2.E-05	1.6
miAD	lnc-FAM72B-17:1	SEQ3884	4.E-03	0.6	MCI	lnc-TSSK6-1:2	SEQ5823	5.E-05	1.9
All AD	lnc-FAM72B-17:1	SEQ3884	5.E-03	0.5	DLB	lnc-TSTA3-2:1	SEQ4409	2.E-03	1.4
msAD	lnc-FAM72B-17:1	SEQ3884	3.E-02	0.5	FTD	lnc-TTC27-10:1	SEQ5976	3.E-06	0.6
DLB	lnc-FAM72D-8:1	SEQ2753	3.E-04	1.4	DLB	lnc-TTC4-1:1	SEQ3776	4.E-05	1.7
miAD	lnc-FAM84B-20:1	SEQ3995	3.E-03	1.4	msAD	lnc-TTC4-1:1	SEQ3776	4.E-02	1.2
All AD	lnc-FAM84B-20:1	SEQ3995	4.E-03	1.4	DLB	lnc-TTC9-3:1	SEQ5917	2.E-05	1.7
msAD	lnc-FAM84B-20:1	SEQ3995	2.E-02	1.4	FTD	lnc-TTC9-4:1	SEQ5224	5.E-04	0.5
MCI	lnc-FAM84B-21:1	SEQ4956	3.E-04	1.5	DLB	lnc-TUBA1C-1:15	SEQ4456	2.E-03	1.8
DLB	lnc-FAM84B-21:1	SEQ4956	8.E-04	1.5	DLB	lnc-TUBA1C-1:8	SEQ5558	2.E-04	1.4

DLB	lnc-FAM84B-4:3	SEQ0083	9.E-04	1.8	FTD	lnc-TUBA1C-3:2	SEQ3773	9.E-05	0.6
DLB	lnc-FAM84B-6:5	SEQ4529	2.E-03	1.7	miAD	lnc-TUBA1C-3:2	SEQ3773	2.E-03	0.6
DLB	lnc-FAM8A1-2:5	SEQ4622	2.E-04	1.5	All AD	lnc-TUBA1C-3:2	SEQ3773	5.E-03	0.7
MCI	lnc-FAM8A1-2:5	SEQ4622	1.E-03	1.4	msAD	lnc-TUBA1C-3:2	SEQ3773	4.E-02	0.7
DLB	lnc-FAM92A-2:1	SEQ4503	2.E-03	1.4	FTD	lnc-TUBA3C-16:1	SEQ4801	1.E-03	0.5
DLB	lnc-FAM92B-4:1	SEQ5535	2.E-04	1.7	DLB	lnc-TUBA3D-1:3	SEQ4712	1.E-03	1.5
MCI	lnc-FANCA-3:1	SEQ4011	4.E-05	1.5	All AD	lnc-TUBB2A-7:2	SEQ3767	2.E-02	0.8
DLB	lnc-FANCA-3:1	SEQ4011	9.E-05	1.6	msAD	lnc-TUBB2A-7:2	SEQ3767	4.E-02	0.8
All AD	lnc-FANCA-3:1	SEQ4011	2.E-02	1.2	All AD	lnc-TUBD1-1:1	SEQ3961	7.E-03	0.7
msAD	lnc-FANCA-3:1	SEQ4011	2.E-02	1.2	miAD	lnc-TUBD1-1:1	SEQ3961	8.E-03	0.7
DLB	lnc-FANCL-4:1	SEQ2690	7.E-04	1.5	msAD	lnc-TUBD1-1:1	SEQ3961	2.E-02	0.8
All AD	lnc-FANCL-4:1	SEQ2690	2.E-02	1.2	MCI	lnc-TUBGCP6-5:4	SEQ5689	9.E-06	1.7
msAD	lnc-FANCL-4:1	SEQ2690	3.E-02	1.2	DLB	lnc-TUBGCP6-5:4	SEQ5689	9.E-05	1.7
All AD	lnc-FAP-3:1	SEQ0206	2.E-02	0.7	FTD	lnc-TUBGCP6-5:4	SEQ5689	1.E-04	1.5
msAD	lnc-FAP-3:1	SEQ0206	4.E-02	0.7	MCI	lnc-TUBGCP6-5:6	SEQ4865	7.E-04	1.7
All AD	lnc-FAS-1:1	SEQ4671	3.E-02	0.8	DLB	lnc-TUBGCP6-5:6	SEQ4865	9.E-04	1.6
FTD	lnc-FAS-2:2	SEQ5399	3.E-04	0.7	MCI	lnc-TULP2-4:1	SEQ5890	1.E-05	1.6
DLB	lnc-FBXL22-1:1	SEQ3898	9.E-04	1.4	DLB	lnc-TULP2-4:1	SEQ5890	2.E-05	1.6
MCI	lnc-FBXL22-1:1	SEQ3898	2.E-03	1.4	DLB	lnc-TUSC5-5:2	SEQ3875	1.E-05	1.7
All AD	lnc-FBXL22-1:1	SEQ3898	2.E-02	1.2	MCI	lnc-TUSC5-5:2	SEQ3875	1.E-03	1.4
msAD	lnc-FBXL22-1:1	SEQ3898	3.E-02	1.2	msAD	lnc-TUSC5-5:2	SEQ3875	3.E-02	1.2
DLB	lnc-FBXO11-1:8	SEQ5237	9.E-06	1.9	All AD	lnc-TUSC5-5:2	SEQ3875	4.E-02	1.2
MCI	lnc-FBXO11-1:8	SEQ5237	9.E-05	1.6	DLB	lnc-TVP23A-6:1	SEQ5530	2.E-04	1.6
FTD	lnc-FBXO11-1:8	SEQ5237	5.E-04	1.6	FTD	lnc-TWSG1-1:1	SEQ5776	7.E-05	0.5
miAD	lnc-FBXO11-4:1	SEQ3717	7.E-03	1.4	All AD	lnc-TWSG1-1:1	SEQ5776	3.E-02	0.7
All AD	lnc-FBXO11-4:1	SEQ3717	9.E-03	1.3	FTD	lnc-TWSG1-2:1	SEQ0047	6.E-10	0.4
msAD	lnc-FBXO11-4:1	SEQ3717	4.E-02	1.2	MCI	lnc-TWSG1-2:1	SEQ0047	1.E-05	0.4
All AD	lnc-FBXO28-1:10	SEQ4679	5.E-02	0.8	miAD	lnc-TWSG1-2:1	SEQ0047	2.E-03	0.6
FTD	lnc-FBXO28-1:13	SEQ5785	4.E-06	0.3	All AD	lnc-TWSG1-2:1	SEQ0047	3.E-02	0.6
MCI	lnc-FBXO28-1:13	SEQ5785	6.E-05	0.4	FTD	lnc-TXLNB-3:4	SEQ5914	2.E-05	0.5
FTD	lnc-FBXO30-2:1	SEQ5683	1.E-04	0.5	FTD	lnc-TXLNB-3:6	SEQ5988	2.E-06	0.4
FTD	lnc-FBXO45-4:1	SEQ4199	3.E-07	2.1	DLB	lnc-TXNRD2-2:1	SEQ5328	1.E-04	1.7
MCI	lnc-FBXO45-4:1	SEQ4199	1.E-05	2.6	MCI	lnc-TXNRD2-2:1	SEQ5328	4.E-04	1.6
DLB	lnc-FBXO45-4:1	SEQ4199	1.E-04	2.1	DLB	lnc-TYW1-7:8	SEQ5952	7.E-06	2.0
miAD	lnc-FBXO45-4:1	SEQ4199	2.E-03	1.3	MCI	lnc-U2AF2-1:4	SEQ5174	3.E-04	1.3
All AD	lnc-FBXO45-4:1	SEQ4199	2.E-03	1.3	DLB	lnc-U2AF2-1:4	SEQ5174	5.E-04	1.4
msAD	lnc-FBXO45-4:1	SEQ4199	1.E-02	1.3	MCI	lnc-UACA-5:1	SEQ4784	2.E-04	1.9
DLB	lnc-FBXO47-1:1	SEQ4419	2.E-03	1.4	DLB	lnc-UACA-5:1	SEQ4784	1.E-03	1.7
FTD	lnc-FCAR-1:1	SEQ3850	9.E-05	0.6	FTD	lnc-UAP1-4:1	SEQ4669	5.E-06	0.6
All AD	lnc-FCAR-1:1	SEQ3850	1.E-02	0.7	MCI	lnc-UAP1-4:1	SEQ4669	1.E-03	0.6
miAD	lnc-FCAR-1:1	SEQ3850	1.E-02	0.7	All AD	lnc-UAP1-4:1	SEQ4669	2.E-02	0.8
msAD	lnc-FCAR-1:1	SEQ3850	3.E-02	0.7	DLB	lnc-UBAC1-2:2	SEQ3540	1.E-03	2.3
All AD	lnc-FCGR2B-5:1	SEQ4688	3.E-02	0.7	DLB	lnc-UBALD1-1:1	SEQ5739	9.E-05	1.9

All AD	lnc-FCGR3A-4:1	SEQ4689	3.E-02	0.8	DLB	lnc-UBAP2L-1:1	SEQ4401	2.E-03	1.3
FTD	lnc-FEM1B-4:1	SEQ2624	6.E-10	0.3	DLB	lnc-UBE2D2-2:1	SEQ4832	5.E-05	1.6
MCI	lnc-FEM1B-4:1	SEQ2624	9.E-06	0.4	MCI	lnc-UBE2D2-2:1	SEQ4832	9.E-04	1.4
All AD	lnc-FEM1B-4:1	SEQ2624	1.E-02	0.6	msAD	lnc-UBL5-1:4	SEQ3948	3.E-02	1.2
msAD	lnc-FEM1B-4:1	SEQ2624	2.E-02	0.6	All AD	lnc-UBR2-4:2	SEQ5873	4.E-02	0.8
FTD	lnc-FFAR2-1:1	SEQ4692	3.E-05	0.6	DLB	lnc-UCK1-3:2	SEQ5850	4.E-05	1.6
All AD	lnc-FFAR2-1:1	SEQ4692	3.E-02	0.8	DLB	lnc-UCP3-2:3	SEQ3728	4.E-05	2.2
DLB	lnc-FGF23-5:1	SEQ2474	2.E-04	1.5	MCI	lnc-UCP3-2:3	SEQ3728	9.E-05	2.4
DLB	lnc-FGF23-5:3	SEQ2473	2.E-04	1.6	FTD	lnc-UCP3-2:3	SEQ3728	1.E-04	1.9
DLB	lnc-FGF9-11:1	SEQ4915	5.E-05	1.8	All AD	lnc-UCP3-2:3	SEQ3728	1.E-02	1.3
MCI	lnc-FGF9-11:1	SEQ4915	2.E-04	1.7	msAD	lnc-UCP3-2:3	SEQ3728	4.E-02	1.2
FTD	lnc-FGF9-11:1	SEQ4915	9.E-04	1.5	All AD	lnc-UGDH-3:3	SEQ2526	2.E-02	0.8
All AD	lnc-FGFBP2-1:2	SEQ3763	2.E-02	0.7	FTD	lnc-UGP2-3:2	SEQ5158	5.E-04	0.7
msAD	lnc-FGFBP2-1:2	SEQ3763	4.E-02	0.7	All AD	lnc-UGT3A2-3:1	SEQ0389	5.E-02	0.8
MCI	lnc-FGL2-3:1	SEQ3286	5.E-05	0.4	DLB	lnc-ULK4-1:2	SEQ5565	2.E-04	1.5
FTD	lnc-FGL2-3:1	SEQ3286	2.E-04	0.5	All AD	lnc-UPK3B-5:5	SEQ5875	4.E-02	1.3
DLB	lnc-FGL2-3:1	SEQ3286	9.E-04	0.6	All AD	lnc-UQCC3-1:1	SEQ3979	1.E-02	1.2
miAD	lnc-FGL2-3:1	SEQ3286	1.E-02	0.7	msAD	lnc-UQCC3-1:1	SEQ3979	2.E-02	1.2
All AD	lnc-FGL2-3:1	SEQ3286	1.E-02	0.6	FTD	lnc-UQCC3-2:1	SEQ4084	2.E-09	3.3
msAD	lnc-FGL2-3:1	SEQ3286	4.E-02	0.6	MCI	lnc-UQCC3-2:1	SEQ4084	4.E-05	2.3
FTD	lnc-FIGNL1-4:1	SEQ5548	2.E-04	0.6	DLB	lnc-UQCC3-2:1	SEQ4084	2.E-04	2.0
FTD	lnc-FILIP1-2:2	SEQ6005	4.E-08	0.4	All AD	lnc-UQCC3-2:1	SEQ4084	6.E-03	1.5
DLB	lnc-FKBP6-3:1	SEQ4501	2.E-03	1.4	msAD	lnc-UQCC3-2:1	SEQ4084	1.E-02	1.5
DLB	lnc-FLII-1:4	SEQ4273	2.E-07	1.8	miAD	lnc-UQCC3-2:1	SEQ4084	1.E-02	1.4
FTD	lnc-FLII-1:4	SEQ4273	3.E-07	1.5	FTD	lnc-UQCRHL-1:4	SEQ4295	1.E-04	0.5
MCI	lnc-FLII-1:4	SEQ4273	1.E-06	1.7	miAD	lnc-UQCRHL-1:4	SEQ4295	7.E-03	0.6
miAD	lnc-FLII-1:4	SEQ4273	2.E-04	1.3	All AD	lnc-UQCRHL-1:4	SEQ4295	9.E-03	0.7
All AD	lnc-FLII-1:4	SEQ4273	6.E-04	1.2	DLB	lnc-URGCP-2:11	SEQ5906	2.E-05	1.8
msAD	lnc-FLII-1:4	SEQ4273	8.E-03	1.2	MCI	lnc-URGCP-2:8	SEQ5108	6.E-04	0.8
FTD	lnc-FLNB-3:1	SEQ4220	3.E-05	0.6	FTD	lnc-URGCP-MRPS24-2:1	SEQ2667	1.E-04	0.7
miAD	lnc-FLNB-3:1	SEQ4220	1.E-02	0.7	DLB	lnc-USE1-4:1	SEQ5041	7.E-04	1.6
All AD	lnc-FLNB-3:1	SEQ4220	1.E-02	0.8	DLB	lnc-USP10-3:1	SEQ5320	4.E-04	1.5
DLB	lnc-FLOT1-1:1	SEQ4403	2.E-05	1.5	msAD	lnc-USP12-9:4	SEQ4097	1.E-02	1.3
MCI	lnc-FLOT1-1:1	SEQ4403	2.E-03	1.3	FTD	lnc-USP14-2:3	SEQ4269	6.E-05	0.5
DLB	lnc-FLOT1-1:2	SEQ5889	2.E-05	1.5	MCI	lnc-USP14-2:3	SEQ4269	1.E-04	0.5
DLB	lnc-FMR1NB-3:1	SEQ4949	8.E-04	1.5	miAD	lnc-USP14-2:3	SEQ4269	8.E-03	0.7
DLB	lnc-FNBP1-4:1	SEQ5121	6.E-04	1.5	All AD	lnc-USP14-2:3	SEQ4269	2.E-02	0.7
msAD	lnc-FNBP1L-1:12	SEQ4163	2.E-03	1.4	DLB	lnc-USP20-1:2	SEQ5319	4.E-04	1.5
All AD	lnc-FNBP1L-1:12	SEQ4163	2.E-03	1.4	FTD	lnc-USP25-1:1	SEQ4207	6.E-05	0.6
miAD	lnc-FNBP1L-1:12	SEQ4163	1.E-02	1.3	All AD	lnc-USP25-1:1	SEQ4207	4.E-03	0.7
miAD	lnc-FNDC1-9:10	SEQ3845	5.E-03	1.4	msAD	lnc-USP25-1:1	SEQ4207	6.E-03	0.7
All AD	lnc-FNDC1-9:10	SEQ3845	6.E-03	1.4	miAD	lnc-USP25-1:1	SEQ4207	1.E-02	0.7
msAD	lnc-FNDC1-9:10	SEQ3845	3.E-02	1.4	msAD	lnc-USP3-2:1	SEQ4010	2.E-02	0.8

All AD	lnc-FNDC1-9:15	SEQ4713	4.E-02	0.8	All AD	lnc-USP3-2:1	SEQ4010	4.E-02	0.8
MCI	lnc-FNDC1-9:22	SEQ5027	2.E-04	1.5	MCI	lnc-USP40-2:1	SEQ5449	4.E-05	1.9
DLB	lnc-FNDC1-9:22	SEQ5027	7.E-04	1.5	DLB	lnc-USP40-2:1	SEQ5449	3.E-04	1.7
miAD	lnc-FNDC1-9:3	SEQ3846	5.E-03	1.4	DLB	lnc-USP47-2:1	SEQ3469	1.E-05	1.6
All AD	lnc-FNDC1-9:3	SEQ3846	6.E-03	1.4	msAD	lnc-USP47-2:1	SEQ3469	1.E-02	1.2
msAD	lnc-FNDC1-9:3	SEQ3846	3.E-02	1.4	All AD	lnc-USP47-2:1	SEQ3469	3.E-02	1.2
FTD	lnc-FNTA-1:4	SEQ4476	8.E-05	0.6	MCI	lnc-USP53-8:1	SEQ5737	9.E-05	1.7
MCI	lnc-FNTA-1:4	SEQ4476	2.E-03	0.7	FTD	lnc-USP53-8:20	SEQ5805	6.E-05	0.6
All AD	lnc-FNTA-1:4	SEQ4476	5.E-02	0.8	FTD	lnc-USP53-8:32	SEQ5801	6.E-05	0.6
MCI	lnc-FOXD4L5-16:1	SEQ5462	1.E-05	2.9	FTD	lnc-USP53-8:5	SEQ2668	4.E-04	0.7
FTD	lnc-FOXD4L5-16:1	SEQ5462	2.E-04	2.2	DLB	lnc-USP6-2:20	SEQ3027	2.E-03	1.5
DLB	lnc-FOXD4L5-16:1	SEQ5462	3.E-04	2.1	DLB	lnc-USP6-2:22	SEQ2832	2.E-04	1.6
All AD	lnc-FOXD4L5-2:2	SEQ4718	3.E-02	0.7	msAD	lnc-USP9Y-17:1	SEQ3994	2.E-02	1.3
All AD	lnc-FOXD4L5-26:1	SEQ4305	1.E-03	0.5	FTD	lnc-UTP23-10:3	SEQ5718	1.E-04	0.6
miAD	lnc-FOXD4L5-26:1	SEQ4305	1.E-03	0.5	FTD	lnc-UTP23-11:1	SEQ4260	2.E-04	0.6
msAD	lnc-FOXD4L5-26:1	SEQ4305	7.E-03	0.5	miAD	lnc-UTP23-11:1	SEQ4260	9.E-03	0.7
miAD	lnc-FOXD4L5-28:1	SEQ4208	1.E-02	0.7	All AD	lnc-UTP23-11:1	SEQ4260	1.E-02	0.7
All AD	lnc-FOXD4L5-28:1	SEQ4208	3.E-02	0.8	FTD	lnc-UTP23-11:2	SEQ3766	5.E-05	0.6
DLB	lnc-FOXL2NB-4:1	SEQ4512	2.E-03	1.5	All AD	lnc-UTP23-11:2	SEQ3766	2.E-02	0.7
MCI	lnc-FPGS-1:3	SEQ5049	6.E-04	1.8	msAD	lnc-UTP23-11:2	SEQ3766	4.E-02	0.8
DLB	lnc-FPGS-1:3	SEQ5049	7.E-04	1.9	All AD	lnc-UXS1-3:1	SEQ4239	3.E-03	1.2
MCI	lnc-FPGS-2:10	SEQ4725	1.E-03	1.9	msAD	lnc-UXS1-3:1	SEQ4239	6.E-03	1.2
All AD	lnc-FRAT1-2:1	SEQ4723	2.E-02	0.8	miAD	lnc-UXS1-3:1	SEQ4239	1.E-02	1.2
MCI	lnc-FRMD5-1:1	SEQ5916	6.E-07	1.6	FTD	lnc-UXS1-4:9	SEQ4323	4.E-07	2.4
DLB	lnc-FRMD5-1:1	SEQ5916	2.E-05	1.5	MCI	lnc-UXS1-4:9	SEQ4323	7.E-06	2.3
DLB	lnc-FSCN1-2:1	SEQ4958	5.E-04	1.6	DLB	lnc-UXS1-4:9	SEQ4323	1.E-04	2.1
MCI	lnc-FSCN1-2:1	SEQ4958	8.E-04	1.6	All AD	lnc-UXS1-4:9	SEQ4323	2.E-03	1.4
DLB	lnc-FSCN2-1:6	SEQ5192	3.E-06	1.9	miAD	lnc-UXS1-4:9	SEQ4323	3.E-03	1.4
FTD	lnc-FSCN2-1:6	SEQ5192	3.E-04	1.4	msAD	lnc-UXS1-4:9	SEQ4323	6.E-03	1.4
MCI	lnc-FSCN2-1:6	SEQ5192	5.E-04	1.5	DLB	lnc-VAV2-1:1	SEQ5517	2.E-04	1.4
DLB	lnc-FSCN2-3:1	SEQ4608	1.E-03	1.3	All AD	lnc-VGLL4-8:1	SEQ3978	1.E-02	0.8
FTD	lnc-FUBP1-2:5	SEQ4729	4.E-05	0.5	msAD	lnc-VGLL4-8:1	SEQ3978	2.E-02	0.8
All AD	lnc-FUBP1-2:5	SEQ4729	4.E-02	0.7	DLB	lnc-VHLL-1:1	SEQ4962	8.E-04	1.6
All AD	lnc-FZD4-1:6	SEQ2454	3.E-02	0.7	DLB	lnc-VIPR1-1:1	SEQ4485	2.E-03	1.4
FTD	lnc-FZD5-1:4	SEQ5296	4.E-04	0.7	miAD	lnc-VMP1-8:1	SEQ3916	6.E-03	0.7
DLB	lnc-GADD45B-1:2	SEQ5496	2.E-04	1.8	All AD	lnc-VMP1-8:1	SEQ3916	6.E-03	0.7
DLB	lnc-GADD45GIP1-1:1	SEQ4094	5.E-05	2.0	msAD	lnc-VMP1-8:1	SEQ3916	3.E-02	0.8
MCI	lnc-GADD45GIP1-1:1	SEQ4094	6.E-05	2.0	DLB	lnc-VN1R2-1:1	SEQ5042	7.E-04	1.7
FTD	lnc-GADD45GIP1-1:1	SEQ4094	1.E-04	1.6	All AD	lnc-VPREB1-7:15	SEQ4198	3.E-03	1.4
msAD	lnc-GADD45GIP1-1:1	SEQ4094	1.E-02	1.2	msAD	lnc-VPREB1-7:15	SEQ4198	4.E-03	1.5
All AD	lnc-GADD45GIP1-1:1	SEQ4094	2.E-02	1.2	miAD	lnc-VPREB1-7:15	SEQ4198	1.E-02	1.4
All AD	lnc-GALNT15-6:1	SEQ3879	3.E-02	1.3	FTD	lnc-VPS13B-1:2	SEQ5887	1.E-05	0.6
msAD	lnc-GALNT15-6:1	SEQ3879	3.E-02	1.3	All AD	lnc-VPS13B-1:2	SEQ5887	3.E-02	0.8

DLB	lnc-GALNTL5-2:10	SEQ4980	8.E-04	1.9	All AD	lnc-VRK1-10:3	SEQ4112	9.E-03	0.6
DLB	lnc-GAMT-1:2	SEQ5378	3.E-04	1.6	msAD	lnc-VRK1-10:3	SEQ4112	1.E-02	0.7
DLB	lnc-GAMT-4:1	SEQ4704	1.E-03	1.5	DLB	lnc-VRK3-2:4	SEQ4847	9.E-04	1.5
DLB	lnc-GAN-1:1	SEQ4410	2.E-03	1.4	FTD	lnc-VSIG10-1:1	SEQ3871	2.E-05	0.7
FTD	lnc-GAPDH-2:1	SEQ5305	5.E-07	9.E-09	All AD	lnc-VSIG10-1:1	SEQ3871	3.E-02	0.8
MCI	lnc-GAPDH-2:1	SEQ5305	2.E-05	5.E-09	msAD	lnc-VSIG10-1:1	SEQ3871	3.E-02	0.8
DLB	lnc-GAPDH-2:1	SEQ5305	4.E-04	6.E-09	miAD	lnc-VSNL1-5:1	SEQ3597	2.E-03	1.4
DLB	lnc-GAPDH-3:1	SEQ5118	6.E-05	1.6	All AD	lnc-VSNL1-5:1	SEQ3597	5.E-03	1.3
MCI	lnc-GAPDH-3:1	SEQ5118	6.E-04	1.5	msAD	lnc-VSNL1-5:1	SEQ3597	4.E-02	1.2
DLB	lnc-GAPDH-3:2	SEQ4569	2.E-03	1.4	DLB	lnc-VSTM2B-9:15	SEQ5569	2.E-04	1.6
DLB	lnc-GAPDH-6:1	SEQ4487	2.E-03	1.4	FTD	lnc-VSTM5-1:10	SEQ4904	9.E-04	0.7
FTD	lnc-GAPVD1-3:2	SEQ5786	3.E-06	0.4	FTD	lnc-VSTM5-1:13	SEQ2419	8.E-04	2.2
MCI	lnc-GAPVD1-3:2	SEQ5786	6.E-05	0.5	DLB	lnc-VSX1-4:1	SEQ5675	1.E-04	1.9
DLB	lnc-GAST-2:1	SEQ4494	2.E-03	1.4	FTD	lnc-VTI1B-1:1	SEQ5590	2.E-04	0.6
MCI	lnc-GATA5-9:1	SEQ4488	9.E-04	1.5	FTD	lnc-WBP4-2:9	SEQ2356	4.E-04	0.7
DLB	lnc-GATA5-9:1	SEQ4488	2.E-03	1.4	All AD	lnc-WBP4-2:9	SEQ2356	3.E-02	0.8
DLB	lnc-GATS-3:2	SEQ5487	2.E-04	1.6	FTD	lnc-WDR3-1:1	SEQ5068	7.E-04	0.7
FTD	lnc-GBP2-1:2	SEQ2449	3.E-06	0.6	DLB	lnc-WDR4-2:5	SEQ2874	2.E-04	1.5
MCI	lnc-GBP2-1:2	SEQ2449	2.E-05	0.6	DLB	lnc-WDR45B-1:2	SEQ3588	3.E-05	1.8
All AD	lnc-GBP2-1:2	SEQ2449	3.E-02	0.8	DLB	lnc-WDR77-1:2	SEQ2553	5.E-04	1.6
msAD	lnc-GBP2-1:2	SEQ2449	3.E-02	0.8	All AD	lnc-WIPF1-1:1	SEQ5892	4.E-02	0.8
FTD	lnc-GBP6-1:1	SEQ5365	3.E-06	0.4	All AD	lnc-WNT2-4:1	SEQ5893	5.E-02	0.8
MCI	lnc-GBP6-1:1	SEQ5365	3.E-04	0.4	DLB	lnc-WNT4-2:1	SEQ4565	2.E-03	1.4
MCI	lnc-GCDH-3:4	SEQ5537	2.E-04	1.8	FTD	lnc-WRNIP1-13:1	SEQ5955	7.E-06	0.5
FTD	lnc-GCGR-1:2	SEQ2373	4.E-05	1.5	FTD	lnc-WWP2-2:1	SEQ4237	1.E-08	0.5
DLB	lnc-GCGR-1:2	SEQ2373	9.E-05	1.7	MCI	lnc-WWP2-2:1	SEQ4237	8.E-05	0.6
miAD	lnc-GCGR-1:2	SEQ2373	5.E-04	1.4	All AD	lnc-WWP2-2:1	SEQ4237	3.E-03	0.7
All AD	lnc-GCGR-1:2	SEQ2373	9.E-04	1.3	miAD	lnc-WWP2-2:1	SEQ4237	4.E-03	0.6
MCI	lnc-GCGR-1:2	SEQ2373	9.E-04	1.4	msAD	lnc-WWP2-2:1	SEQ4237	1.E-02	0.7
msAD	lnc-GCGR-1:2	SEQ2373	9.E-03	1.3	DLB	lnc-XRCC1-2:1	SEQ5478	2.E-04	1.4
All AD	lnc-GCH1-2:4	SEQ4749	4.E-02	1.2	FTD	lnc-XRCC2-13:2	SEQ5151	5.E-04	0.6
DLB	lnc-GCN1-3:1	SEQ3301	3.E-04	1.5	DLB	lnc-XRCC3-1:1	SEQ4763	1.E-03	1.5
MCI	lnc-GCNT1-7:1	SEQ4751	7.E-06	3.0	DLB	lnc-XRCC3-1:2	SEQ5437	3.E-04	1.5
DLB	lnc-GCNT1-7:1	SEQ4751	3.E-04	2.5	FTD	lnc-XXYLT1-5:1	SEQ0221	1.E-06	0.5
FTD	lnc-GCNT1-7:1	SEQ4751	6.E-04	2.1	miAD	lnc-XXYLT1-5:1	SEQ0221	5.E-04	0.6
All AD	lnc-GCNT1-7:1	SEQ4751	3.E-02	1.4	All AD	lnc-XXYLT1-5:1	SEQ0221	2.E-03	0.7
MCI	lnc-GDE1-1:5	SEQ4590	2.E-03	1.6	msAD	lnc-XXYLT1-5:1	SEQ0221	4.E-02	0.7
DLB	lnc-GDI1-1:1	SEQ4743	1.E-03	1.4	DLB	lnc-YIF1A-1:1	SEQ5935	1.E-05	1.7
MCI	lnc-GEMIN4-6:1	SEQ4080	6.E-04	1.4	DLB	lnc-YIF1B-1:1	SEQ5461	3.E-04	2.1
miAD	lnc-GEMIN4-6:1	SEQ4080	1.E-02	1.2	DLB	lnc-YPEL5-5:1	SEQ0750	1.E-04	1.7
All AD	lnc-GEMIN4-6:1	SEQ4080	1.E-02	1.2	MCI	lnc-YPEL5-5:1	SEQ0750	6.E-04	1.5
DLB	lnc-GGCT-1:31	SEQ5630	2.E-04	1.7	All AD	lnc-YPEL5-5:1	SEQ0750	4.E-02	1.2
DLB	lnc-GGCT-1:4	SEQ5331	4.E-04	1.7	FTD	lnc-YTHDF3-4:1	SEQ6008	8.E-09	0.4

FTD	lnc-GGCT-1:64	SEQ4991	8.E-04	0.6	FTD	lnc-YWHAZ-2:1	SEQ5410	3.E-04	0.6
FTD	lnc-GGCT-1:81	SEQ5804	6.E-05	0.6	All AD	lnc-YWHAZ-2:1	SEQ5410	4.E-02	0.8
FTD	lnc-GGCT-1:82	SEQ5803	6.E-05	0.6	DLB	lnc-YY1-1:2	SEQ4981	8.E-04	2.0
DLB	lnc-GHRL-4:2	SEQ4753	2.E-04	1.6	msAD	lnc-YY1AP1-2:1	SEQ3501	8.E-03	0.7
MCI	lnc-GHRL-4:2	SEQ4753	1.E-03	1.4	All AD	lnc-YY1AP1-2:1	SEQ3501	2.E-02	0.8
miAD	lnc-GHSR-1:1	SEQ4221	1.E-02	0.7	DLB	lnc-YY1AP1-3:1	SEQ5617	2.E-04	1.5
All AD	lnc-GHSR-1:1	SEQ4221	2.E-02	0.8	FTD	lnc-ZADH2-3:1	SEQ5232	5.E-04	0.7
MCI	lnc-GIMAP5-1:1	SEQ3302	1.E-04	1.5	msAD	lnc-ZBED4-2:1	SEQ3863	3.E-02	1.4
DLB	lnc-GIMAP5-1:1	SEQ3302	6.E-04	1.4	msAD	lnc-ZBTB2-7:1	SEQ3675	5.E-02	1.4
FTD	lnc-GIMAP7-1:1	SEQ3984	2.E-10	0.3	DLB	lnc-ZBTB46-2:2	SEQ5242	5.E-04	1.4
MCI	lnc-GIMAP7-1:1	SEQ3984	6.E-05	0.3	DLB	lnc-ZBTB46-2:3	SEQ5111	6.E-04	1.4
All AD	lnc-GIMAP7-1:1	SEQ3984	9.E-03	0.6	FTD	lnc-ZBTB7C-10:1	SEQ5298	4.E-04	0.7
miAD	lnc-GIMAP7-1:1	SEQ3984	1.E-02	0.6	MCI	lnc-ZC2HC1C-3:1	SEQ3856	5.E-04	1.3
msAD	lnc-GIMAP7-1:1	SEQ3984	2.E-02	0.6	DLB	lnc-ZC2HC1C-3:1	SEQ3856	8.E-04	1.3
All AD	lnc-GK5-7:1	SEQ4767	4.E-02	0.8	All AD	lnc-ZC2HC1C-3:1	SEQ3856	2.E-02	1.1
DLB	lnc-GLB1-2:1	SEQ4570	1.E-03	1.6	msAD	lnc-ZC2HC1C-3:1	SEQ3856	3.E-02	1.1
MCI	lnc-GLB1-2:1	SEQ4570	2.E-03	1.5	DLB	lnc-ZC3H11A-1:3	SEQ5140	6.E-04	1.8
DLB	lnc-GLDC-6:1	SEQ3965	2.E-03	1.5	MCI	lnc-ZC3H8-7:2	SEQ3951	4.E-05	1.7
msAD	lnc-GLDC-6:1	SEQ3965	2.E-02	1.2	DLB	lnc-ZC3H8-7:2	SEQ3951	8.E-05	1.8
All AD	lnc-GLDC-6:1	SEQ3965	3.E-02	1.2	FTD	lnc-ZC3H8-7:2	SEQ3951	2.E-04	1.6
DLB	lnc-GLG1-1:1	SEQ5442	3.E-04	1.6	All AD	lnc-ZC3H8-7:2	SEQ3951	8.E-03	1.3
DLB	lnc-GLOD4-2:2	SEQ4773	5.E-04	1.7	miAD	lnc-ZC3H8-7:2	SEQ3951	1.E-02	1.3
All AD	lnc-GLOD4-2:2	SEQ4773	4.E-02	1.2	msAD	lnc-ZC3H8-7:2	SEQ3951	3.E-02	1.3
DLB	lnc-GLOD4-3:1	SEQ2673	8.E-05	1.6	DLB	lnc-ZC3HC1-4:1	SEQ2731	1.E-03	1.4
FTD	lnc-GLRX5-7:1	SEQ5602	2.E-04	0.6	FTD	lnc-ZCCHC13-4:1	SEQ4168	3.E-11	5.E-03
FTD	lnc-GMNN-5:1	SEQ5598	2.E-04	0.6	MCI	lnc-ZCCHC13-4:1	SEQ4168	9.E-06	6.E-03
FTD	lnc-GMNN-5:2	SEQ5087	6.E-04	0.6	DLB	lnc-ZCCHC13-4:1	SEQ4168	7.E-04	9.E-03
FTD	lnc-GMPR2-1:1	SEQ5666	3.E-07	1.7	All AD	lnc-ZCCHC13-4:1	SEQ4168	3.E-03	1.E-02
MCI	lnc-GMPR2-1:1	SEQ5666	2.E-06	1.8	miAD	lnc-ZCCHC13-4:1	SEQ4168	4.E-03	1.E-02
DLB	lnc-GMPR2-1:1	SEQ5666	1.E-04	1.6	msAD	lnc-ZCCHC13-4:1	SEQ4168	1.E-02	1.E-02
DLB	lnc-GNA11-3:1	SEQ2681	2.E-04	1.6	DLB	lnc-ZCCHC24-8:1	SEQ5905	2.E-05	1.7
miAD	lnc-GNA11-3:1	SEQ2681	3.E-03	1.3	DLB	lnc-ZCCHC7-2:12	SEQ3490	1.E-03	2.0
All AD	lnc-GNA11-3:1	SEQ2681	5.E-03	1.2	DLB	lnc-ZCCHC7-2:22	SEQ3657	4.E-05	4.6
msAD	lnc-GNA11-3:1	SEQ2681	3.E-02	1.2	MCI	lnc-ZCCHC7-2:22	SEQ3657	1.E-04	4.0
DLB	lnc-GNA11-3:2	SEQ3399	2.E-03	1.4	FTD	lnc-ZCCHC7-2:22	SEQ3657	7.E-04	2.8
FTD	lnc-GNA14-3:1	SEQ2572	1.E-06	0.6	All AD	lnc-ZCCHC7-2:22	SEQ3657	2.E-02	1.5
All AD	lnc-GNA14-3:1	SEQ2572	5.E-02	0.7	msAD	lnc-ZCCHC7-2:22	SEQ3657	5.E-02	1.4
DLB	lnc-GNAT2-1:1	SEQ4948	8.E-04	1.5	MCI	lnc-ZCCHC7-2:24	SEQ2279	3.E-04	0.5
FTD	lnc-GNB4-1:1	SEQ4783	3.E-05	0.5	FTD	lnc-ZCCHC7-2:24	SEQ2279	4.E-04	0.5
MCI	lnc-GNB4-1:1	SEQ4783	3.E-04	0.5	DLB	lnc-ZFP57-11:1	SEQ4678	8.E-04	1.4
All AD	lnc-GNB4-1:1	SEQ4783	2.E-02	0.7	MCI	lnc-ZFP57-11:1	SEQ4678	1.E-03	1.3
DLB	lnc-GOLGA8J-4:1	SEQ3857	3.E-05	1.4	DLB	lnc-ZFYVE21-2:1	SEQ5215	3.E-04	1.9
All AD	lnc-GOLGA8J-4:1	SEQ3857	2.E-02	1.1	MCI	lnc-ZFYVE21-2:1	SEQ5215	5.E-04	2.0

msAD	lnc-GOLGA8J-4:1	SEQ3857	3.E-02	1.1	All AD	lnc-ZGLP1-4:1	SEQ3935	9.E-03	0.7
FTD	lnc-GOLGA8O-1:1	SEQ4908	9.E-04	0.7	miAD	lnc-ZGLP1-4:1	SEQ3935	1.E-02	0.7
DLB	lnc-GPAT4-2:2	SEQ2763	1.E-04	1.5	msAD	lnc-ZGLP1-4:1	SEQ3935	3.E-02	0.8
FTD	lnc-GPBP1L1-1:8	SEQ2745	1.E-08	0.4	FTD	lnc-ZMAT3-4:1	SEQ5154	5.E-04	0.6
MCI	lnc-GPBP1L1-1:8	SEQ2745	2.E-05	0.5	DLB	lnc-ZMYM4-3:2	SEQ4023	2.E-04	1.8
All AD	lnc-GPBP1L1-1:8	SEQ2745	3.E-02	0.7	MCI	lnc-ZMYM4-3:2	SEQ4023	1.E-03	1.5
All AD	lnc-GPD2-1:3	SEQ4038	1.E-02	1.4	All AD	lnc-ZMYM4-3:2	SEQ4023	1.E-02	1.3
msAD	lnc-GPD2-1:3	SEQ4038	2.E-02	1.5	msAD	lnc-ZMYM4-3:2	SEQ4023	2.E-02	1.3
MCI	lnc-GPR137C-1:1	SEQ4790	3.E-06	0.5	DLB	lnc-ZMYND19-1:6	SEQ4936	8.E-04	1.4
FTD	lnc-GPR137C-1:1	SEQ4790	1.E-05	0.5	DLB	lnc-ZNF100-7:1	SEQ5333	4.E-04	1.7
All AD	lnc-GPR137C-1:1	SEQ4790	4.E-02	0.8	MCI	lnc-ZNF131-1:16	SEQ4589	2.E-03	1.6
miAD	lnc-GPR141-2:1	SEQ4049	2.E-03	0.6	DLB	lnc-ZNF131-1:24	SEQ3221	4.E-04	1.7
All AD	lnc-GPR141-2:1	SEQ4049	3.E-03	0.7	DLB	lnc-ZNF131-2:5	SEQ5730	9.E-05	1.5
msAD	lnc-GPR141-2:1	SEQ4049	2.E-02	0.7	DLB	lnc-ZNF132-1:2	SEQ4976	8.E-04	1.7
FTD	lnc-GPR141-3:1	SEQ4382	8.E-08	0.4	DLB	lnc-ZNF174-1:13	SEQ5117	6.E-04	1.4
MCI	lnc-GPR141-3:1	SEQ4382	4.E-04	0.5	DLB	lnc-ZNF212-2:2	SEQ5271	5.E-04	1.7
All AD	lnc-GPR141-3:1	SEQ4382	1.E-03	0.5	DLB	lnc-ZNF217-5:1	SEQ5907	2.E-05	1.8
miAD	lnc-GPR141-3:1	SEQ4382	3.E-03	0.5	MCI	lnc-ZNF2-2:1	SEQ5052	7.E-04	2.2
msAD	lnc-GPR141-3:1	SEQ4382	3.E-03	0.6	MCI	lnc-ZNF236-6:3	SEQ5045	7.E-04	1.8
FTD	lnc-GPR160-1:1	SEQ5901	2.E-05	0.6	DLB	lnc-ZNF236-9:4	SEQ5268	5.E-04	1.6
FTD	lnc-GPR161-4:1	SEQ0070	7.E-05	0.5	DLB	lnc-ZNF266-2:1	SEQ4502	3.E-04	1.6
All AD	lnc-GPR161-4:1	SEQ0070	5.E-02	0.7	MCI	lnc-ZNF266-2:1	SEQ4502	2.E-03	1.4
All AD	lnc-GPR183-5:6	SEQ4068	1.E-02	0.6	All AD	lnc-ZNF273-4:3	SEQ5909	4.E-02	0.8
msAD	lnc-GPR183-5:6	SEQ4068	1.E-02	0.6	FTD	lnc-ZNF284-1:1	SEQ4778	9.E-04	1.6
All AD	lnc-GPR183-5:8	SEQ4796	5.E-02	0.7	DLB	lnc-ZNF284-1:1	SEQ4778	1.E-03	1.6
FTD	lnc-GPR27-5:1	SEQ3959	2.E-04	0.6	DLB	lnc-ZNF316-2:1	SEQ4627	1.E-03	1.4
miAD	lnc-GPR27-5:1	SEQ3959	2.E-03	0.5	FTD	lnc-ZNF330-4:1	SEQ5770	7.E-05	0.4
All AD	lnc-GPR27-5:1	SEQ3959	4.E-03	0.6	DLB	lnc-ZNF335-1:1	SEQ4628	3.E-04	1.5
msAD	lnc-GPR27-5:1	SEQ3959	2.E-02	0.7	MCI	lnc-ZNF335-1:1	SEQ4628	1.E-03	1.4
FTD	lnc-GPR33-14:1	SEQ0236	8.E-07	0.5	DLB	lnc-ZNF33B-4:4	SEQ4578	2.E-03	1.5
MCI	lnc-GPR33-14:1	SEQ0236	2.E-05	0.5	FTD	lnc-ZNF362-1:11	SEQ4346	3.E-06	0.5
DLB	lnc-GPR37L1-7:4	SEQ3402	2.E-04	1.5	DLB	lnc-ZNF362-1:11	SEQ4346	3.E-04	0.7
FTD	lnc-GPR39-9:1	SEQ2704	5.E-06	0.5	miAD	lnc-ZNF362-1:11	SEQ4346	5.E-03	0.6
FTD	lnc-GPR83-1:1	SEQ5543	2.E-04	0.6	All AD	lnc-ZNF362-1:11	SEQ4346	1.E-02	0.6
DLB	lnc-GPRC5D-3:1	SEQ4527	5.E-04	1.9	FTD	lnc-ZNF362-1:6	SEQ3910	2.E-05	0.6
MCI	lnc-GPRC5D-3:1	SEQ4527	2.E-03	1.6	DLB	lnc-ZNF362-1:6	SEQ3910	8.E-04	0.8
MCI	lnc-GPRIN2-2:1	SEQ2453	2.E-03	0.7	All AD	lnc-ZNF362-1:6	SEQ3910	8.E-03	0.7
DLB	lnc-GPSM1-2:1	SEQ4554	2.E-05	1.5	miAD	lnc-ZNF362-1:6	SEQ3910	8.E-03	0.7
MCI	lnc-GPSM1-2:1	SEQ4554	2.E-03	1.3	msAD	lnc-ZNF362-1:6	SEQ3910	3.E-02	0.7
DLB	lnc-GPT2-1:5	SEQ3923	2.E-04	1.5	FTD	lnc-ZNF362-1:7	SEQ4917	9.E-04	2.5
MCI	lnc-GPT2-1:5	SEQ3923	2.E-04	1.5	DLB	lnc-ZNF362-3:1	SEQ5119	6.E-04	1.5
msAD	lnc-GPT2-1:5	SEQ3923	3.E-02	1.2	DLB	lnc-ZNF385C-4:3	SEQ5816	5.E-05	1.6
All AD	lnc-GPT2-1:5	SEQ3923	3.E-02	1.2	DLB	lnc-ZNF397-4:1	SEQ4775	1.E-03	1.6

DLB	lnc-GPX3-1:1	SEQ5729	9.E-05	1.5	DLB	lnc-ZNF408-5:2	SEQ5846	4.E-05	1.5
MCI	lnc-GPX3-1:1	SEQ5729	9.E-05	1.6	All AD	lnc-ZNF408-5:2	SEQ5846	4.E-02	1.2
FTD	lnc-GRAP-1:2	SEQ5870	4.E-05	2.8	DLB	lnc-ZNF420-1:1	SEQ5699	1.E-04	1.6
DLB	lnc-GRAP2-2:1	SEQ2429	5.E-04	1.6	DLB	lnc-ZNF438-4:2	SEQ5275	2.E-04	1.7
DLB	lnc-GRAP-4:1	SEQ4649	1.E-03	1.8	MCI	lnc-ZNF438-4:2	SEQ5275	5.E-04	1.7
FTD	lnc-GRAP-7:2	SEQ3752	2.E-06	2.1	DLB	lnc-ZNF439-1:1	SEQ4525	2.E-03	1.6
DLB	lnc-GRAP-7:2	SEQ3752	1.E-03	1.7	DLB	lnc-ZNF460-1:1	SEQ5610	2.E-04	1.3
All AD	lnc-GRAP-7:2	SEQ3752	4.E-02	1.2	FTD	lnc-ZNF484-1:1	SEQ5355	4.E-04	0.6
msAD	lnc-GRAP-7:2	SEQ3752	4.E-02	1.2	FTD	lnc-ZNF516-14:1	SEQ4259	9.E-10	0.3
DLB	lnc-GRAPL-1:1	SEQ3729	2.E-03	1.8	MCI	lnc-ZNF516-14:1	SEQ4259	9.E-06	0.4
msAD	lnc-GRAPL-1:1	SEQ3729	4.E-02	1.3	miAD	lnc-ZNF516-14:1	SEQ4259	1.E-04	0.5
miAD	lnc-GREM1-2:3	SEQ4143	1.E-02	0.4	DLB	lnc-ZNF516-14:1	SEQ4259	5.E-04	0.5
DLB	lnc-GRHPR-1:1	SEQ4500	2.E-03	1.4	All AD	lnc-ZNF516-14:1	SEQ4259	5.E-04	0.6
MCI	lnc-GRIK2-7:1	SEQ5652	1.E-04	0.5	msAD	lnc-ZNF516-14:1	SEQ4259	9.E-03	0.6
DLB	lnc-GRIN3B-3:1	SEQ5784	3.E-06	2.0	FTD	lnc-ZNF518A-1:14	SEQ5919	1.E-05	0.6
MCI	lnc-GRIN3B-3:1	SEQ5784	7.E-06	1.8	All AD	lnc-ZNF518A-1:14	SEQ5919	5.E-02	0.8
FTD	lnc-GRIN3B-3:1	SEQ5784	7.E-05	1.5	All AD	lnc-ZNF518A-1:5	SEQ5920	4.E-02	0.8
DLB	lnc-GRINA-1:1	SEQ3118	2.E-04	1.6	MCI	lnc-ZNF518B-2:4	SEQ5239	5.E-04	0.5
MCI	lnc-GRINA-1:1	SEQ3118	5.E-04	1.7	All AD	lnc-ZNF518B-2:4	SEQ5239	4.E-02	0.7
MCI	lnc-GRINA-2:1	SEQ2969	4.E-06	1.7	DLB	lnc-ZNF627-3:6	SEQ5025	7.E-04	1.5
DLB	lnc-GRINA-2:1	SEQ2969	1.E-04	1.6	DLB	lnc-ZNF629-1:1	SEQ4680	3.E-05	1.4
FTD	lnc-GRINA-2:1	SEQ2969	9.E-04	1.4	MCI	lnc-ZNF629-1:1	SEQ4680	1.E-03	1.3
All AD	lnc-GRINA-2:1	SEQ2969	4.E-02	1.2	FTD	lnc-ZNF639-4:1	SEQ2617	8.E-06	0.5
DLB	lnc-GRINA-3:1	SEQ3047	6.E-05	1.5	All AD	lnc-ZNF639-4:1	SEQ2617	2.E-02	0.7
MCI	lnc-GRINA-3:1	SEQ3047	5.E-04	1.4	DLB	lnc-ZNF646-5:2	SEQ4789	1.E-03	1.9
DLB	lnc-GRK3-7:4	SEQ5037	7.E-04	1.6	miAD	lnc-ZNF654-3:1	SEQ0857	6.E-03	0.7
DLB	lnc-GRK4-2:7	SEQ3405	9.E-05	1.4	All AD	lnc-ZNF654-3:1	SEQ0857	3.E-02	0.8
MCI	lnc-GRK4-2:7	SEQ3405	2.E-03	1.3	msAD	lnc-ZNF683-3:1	SEQ4253	9.E-03	1.2
FTD	lnc-GRM1-1:2	SEQ4887	9.E-04	0.4	FTD	lnc-ZNF697-2:1	SEQ5593	2.E-04	0.6
DLB	lnc-GRM1-2:1	SEQ4716	1.E-03	1.6	All AD	lnc-ZNF697-2:1	SEQ5593	4.E-02	0.8
FTD	lnc-GRM8-2:1	SEQ4812	1.E-03	0.7	FTD	lnc-ZNF704-8:1	SEQ5717	1.E-04	0.6
FTD	lnc-GRM8-2:2	SEQ0430	1.E-04	0.6	DLB	lnc-ZNF706-1:1	SEQ4714	1.E-03	1.6
FTD	lnc-GRSF1-1:1	SEQ4817	4.E-04	0.6	MCI	lnc-ZNF708-13:1	SEQ5080	2.E-04	0.4
All AD	lnc-GRSF1-1:1	SEQ4817	4.E-02	0.8	FTD	lnc-ZNF708-13:1	SEQ5080	6.E-04	0.5
MCI	lnc-GSDMD-2:1	SEQ4522	9.E-04	1.7	MCI	lnc-ZNF708-3:1	SEQ5082	2.E-04	0.6
DLB	lnc-GSDMD-2:1	SEQ4522	2.E-03	1.6	FTD	lnc-ZNF708-3:1	SEQ5082	6.E-04	0.5
All AD	lnc-GSTO2-3:1	SEQ4818	4.E-02	0.8	MCI	lnc-ZNF726-1:3	SEQ0259	1.E-03	1.6
FTD	lnc-GSX2-7:1	SEQ4820	1.E-08	0.4	FTD	lnc-ZNF730-11:1	SEQ4899	9.E-04	0.6
MCI	lnc-GSX2-7:1	SEQ4820	9.E-05	0.6	All AD	lnc-ZNF740-2:1	SEQ5924	3.E-02	0.8
miAD	lnc-GSX2-7:1	SEQ4820	1.E-03	0.6	DLB	lnc-ZNF75D-2:2	SEQ5659	1.E-04	1.5
All AD	lnc-GSX2-7:1	SEQ4820	6.E-03	0.6	DLB	lnc-ZNF778-1:4	SEQ2865	8.E-04	1.5
All AD	lnc-GTDC1-1:2	SEQ4821	4.E-02	0.7	MCI	lnc-ZNF778-5:1	SEQ5125	6.E-04	1.6
FTD	lnc-GTDC1-12:1	SEQ4822	1.E-04	0.6	DLB	lnc-ZNF778-5:1	SEQ5125	6.E-04	1.6

All AD	lnc-GTDC1-12:1	SEQ4822	3.E-02	0.7	DLB	lnc-ZNF780B-1:1	SEQ4526	2.E-03	1.6
FTD	lnc-GTDC1-17:1	SEQ5961	6.E-06	0.3	FTD	lnc-ZNF792-4:1	SEQ5866	4.E-05	0.5
FTD	lnc-GTDC1-21:1	SEQ5081	6.E-04	0.5	DLB	lnc-ZNF8-2:1	SEQ5379	3.E-04	1.6
FTD	lnc-GTDC1-22:1	SEQ5394	3.E-04	0.5	DLB	lnc-ZNF835-2:1	SEQ3790	4.E-04	1.5
FTD	lnc-GTDC1-28:1	SEQ5925	1.E-05	0.6	msAD	lnc-ZNF835-2:1	SEQ3790	4.E-02	1.2
MCI	lnc-GTDC1-3:1	SEQ3956	3.E-06	3.2	All AD	lnc-ZNF835-2:1	SEQ3790	4.E-02	1.2
DLB	lnc-GTDC1-3:1	SEQ3956	9.E-06	3.1	DLB	lnc-ZNF836-2:4	SEQ4699	3.E-05	1.7
FTD	lnc-GTDC1-3:1	SEQ3956	3.E-05	2.5	MCI	lnc-ZNF836-2:4	SEQ4699	1.E-03	1.5
All AD	lnc-GTDC1-3:1	SEQ3956	2.E-02	1.3	DLB	lnc-ZNF837-1:2	SEQ3783	2.E-05	2.6
msAD	lnc-GTDC1-3:1	SEQ3956	3.E-02	1.3	MCI	lnc-ZNF837-1:2	SEQ3783	3.E-05	2.6
FTD	lnc-GTDC1-3:2	SEQ5968	4.E-06	0.5	FTD	lnc-ZNF837-1:2	SEQ3783	8.E-05	2.1
FTD	lnc-GTDC1-5:1	SEQ5395	3.E-04	0.5	miAD	lnc-ZNF837-1:2	SEQ3783	3.E-04	1.7
DLB	lnc-GTF2IRD2B-3:1	SEQ5755	8.E-05	1.7	All AD	lnc-ZNF837-1:2	SEQ3783	2.E-03	1.6
miAD	lnc-GTPBP1-1:1	SEQ4120	1.E-02	1.2	msAD	lnc-ZNF837-1:2	SEQ3783	4.E-02	1.4
All AD	lnc-GTPBP1-1:1	SEQ4120	2.E-02	1.2	MCI	lnc-ZNF843-2:1	SEQ5495	3.E-06	1.9
DLB	lnc-GTPBP1-1:2	SEQ3017	2.E-04	1.4	DLB	lnc-ZNF843-2:1	SEQ5495	2.E-04	1.8
MCI	lnc-GTPBP1-1:2	SEQ3017	2.E-04	1.4	All AD	lnc-ZNF843-2:1	SEQ5495	3.E-02	1.2
FTD	lnc-H2AFJ-4:2	SEQ5975	3.E-06	0.6	MCI	lnc-ZNF843-2:4	SEQ3465	2.E-05	2.0
FTD	lnc-H2AFV-3:1	SEQ2433	2.E-04	0.7	DLB	lnc-ZNF843-2:4	SEQ3465	1.E-04	1.6
All AD	lnc-H3F3A-7:1	SEQ4831	4.E-02	0.8	FTD	lnc-ZNF843-2:4	SEQ3465	5.E-04	1.4
DLB	lnc-H6PD-2:1	SEQ5426	3.E-04	1.4	msAD	lnc-ZNF843-2:4	SEQ3465	1.E-02	1.2
DLB	lnc-HAGHL-1:1	SEQ4505	2.E-05	1.8	All AD	lnc-ZNF843-2:4	SEQ3465	1.E-02	1.2
MCI	lnc-HAGHL-1:1	SEQ4505	2.E-03	1.5	DLB	lnc-ZNF843-2:6	SEQ4879	9.E-04	2.1
DLB	lnc-HAND1-3:1	SEQ5575	2.E-04	1.7	MCI	lnc-ZNF843-2:7	SEQ5631	7.E-07	2.1
DLB	lnc-HAUS1-1:1	SEQ4863	9.E-04	1.6	DLB	lnc-ZNF843-2:7	SEQ5631	2.E-04	1.8
DLB	lnc-HBG2-1:1	SEQ3409	1.E-03	1.4	msAD	lnc-ZNF852-2:3	SEQ2944	2.E-02	1.3
DLB	lnc-HCN3-1:1	SEQ5316	4.E-04	1.5	MCI	lnc-ZNHIT2-1:1	SEQ3818	2.E-06	1.9
MCI	lnc-HDDC3-3:2	SEQ4690	1.E-03	1.4	DLB	lnc-ZNHIT2-1:1	SEQ3818	3.E-05	1.8
DLB	lnc-HDDC3-3:2	SEQ4690	1.E-03	1.4	FTD	lnc-ZNHIT2-1:1	SEQ3818	5.E-04	1.4
DLB	lnc-HDGFL2-7:1	SEQ3180	2.E-04	1.8	miAD	lnc-ZNHIT2-1:1	SEQ3818	8.E-03	1.2
MCI	lnc-HDGFL2-7:1	SEQ3180	5.E-04	1.7	All AD	lnc-ZNHIT2-1:1	SEQ3818	9.E-03	1.2
FTD	lnc-HELZ-4:1	SEQ5783	7.E-05	0.7	msAD	lnc-ZNHIT2-1:1	SEQ3818	4.E-02	1.2
FTD	lnc-HEPH-1:1	SEQ4549	2.E-05	0.6	msAD	lnc-ZNRD1-4:2	SEQ4122	1.E-02	0.5
MCI	lnc-HEPH-1:1	SEQ4549	2.E-03	0.6	DLB	lnc-ZNRF2-1:1	SEQ4700	1.E-03	1.5
DLB	lnc-HIBADH-5:1	SEQ3962	3.E-05	1.4	FTD	lnc-ZNRF2-4:1	SEQ5551	2.E-04	0.7
msAD	lnc-HIBADH-5:1	SEQ3962	2.E-02	1.1	FTD	lnc-ZRANB1-4:1	SEQ5067	7.E-04	0.7
All AD	lnc-HIBADH-5:1	SEQ3962	4.E-02	1.1	All AD	lnc-ZRANB1-4:1	SEQ5067	4.E-02	0.8
DLB	lnc-HIP1-1:2	SEQ4849	9.E-04	1.5	MCI	lnc-ZSCAN10-1:3	SEQ5651	1.E-04	0.5
DLB	lnc-HIST1H2BJ-10:5	SEQ5707	1.E-04	1.8	FTD	lnc-ZSCAN10-1:5	SEQ5093	6.E-04	0.7
All AD	lnc-HIST1H3A-4:1	SEQ4172	1.E-02	0.8	DLB	lnc-ZSCAN10-1:7	SEQ5323	4.E-04	1.5
msAD	lnc-HIST1H3A-4:1	SEQ4172	1.E-02	0.8	DLB	lnc-ZSCAN10-3:32	SEQ5713	1.E-04	2.4
All AD	lnc-HIST1H3D-1:1	SEQ4844	3.E-02	0.7	DLB	lnc-ZSCAN10-7:1	SEQ5370	2.E-04	1.4
DLB	lnc-HIST1H3F-1:1	SEQ5878	3.E-05	1.6	MCI	lnc-ZSCAN10-7:1	SEQ5370	3.E-04	1.4

FTD	lnc-HIST1H4D-3:1	SEQ4032	2.E-05	1.5	DLB	lnc-ZSCAN1-3:3	SEQ5445	3.E-04	1.6
DLB	lnc-HIST1H4D-3:1	SEQ4032	2.E-05	1.6	DLB	lnc-ZSCAN21-1:1	SEQ5240	5.E-04	1.3
MCI	lnc-HIST1H4D-3:1	SEQ4032	3.E-05	1.5	DLB	lnc-ZSCAN21-2:1	SEQ5477	2.E-04	1.4
miAD	lnc-HIST1H4D-3:1	SEQ4032	2.E-03	1.2	DLB	lnc-ZSCAN2-5:1	SEQ5486	2.E-04	1.5
All AD	lnc-HIST1H4D-3:1	SEQ4032	3.E-03	1.2	DLB	lnc-ZSCAN2-5:10	SEQ4859	9.E-04	1.5
msAD	lnc-HIST1H4D-3:1	SEQ4032	2.E-02	1.2	DLB	lnc-ZSWIM8-2:3	SEQ4715	1.E-03	1.6
FTD	lnc-HIST2H2AA3-1:1	SEQ5069	7.E-04	0.7	MCI	LRRC75A-AS1:63	SEQ5137	6.E-04	1.8
FTD	lnc-HIST2H2BF-5:1	SEQ5366	3.E-06	0.4	FTD	LUCAT1:1	SEQ4330	3.E-05	0.6
MCI	lnc-HIST2H2BF-5:1	SEQ5366	3.E-04	0.5	miAD	LUCAT1:1	SEQ4330	6.E-03	0.6
FTD	lnc-HIST2H3A-1:2	SEQ4852	8.E-04	0.6	All AD	LUCAT1:1	SEQ4330	3.E-02	0.7
All AD	lnc-HIST2H3A-1:2	SEQ4852	2.E-02	0.7	FTD	LUCAT1:14	SEQ4151	3.E-04	0.6
All AD	lnc-HIST2H3D-1:1	SEQ2368	1.E-03	0.5	miAD	LUCAT1:14	SEQ4151	1.E-02	0.7
msAD	lnc-HIST2H3D-1:1	SEQ2368	3.E-03	0.5	All AD	LUCAT1:14	SEQ4151	2.E-02	0.7
miAD	lnc-HIST2H3D-1:1	SEQ2368	3.E-03	0.6	miAD	LUCAT1:18	SEQ4351	4.E-03	0.4
miAD	lnc-HIST2H3PS2-10:1	SEQ4664	1.E-03	0.4	All AD	LUCAT1:18	SEQ4351	1.E-02	0.5
All AD	lnc-HIST2H3PS2-10:1	SEQ4664	8.E-03	0.4	All AD	LUCAT1:2	SEQ5932	4.E-02	0.8
DLB	lnc-HIST3H2BB-1:4	SEQ5845	4.E-05	1.5	All AD	LUCAT1:20	SEQ5933	3.E-02	0.7
FTD	lnc-HIST4H4-1:1	SEQ5921	1.E-05	0.2	All AD	LUCAT1:21	SEQ5934	2.E-02	0.7
FTD	lnc-HIST4H4-1:2	SEQ5750	2.E-05	0.2	FTD	LUCAT1:24	SEQ5510	2.E-04	0.6
MCI	lnc-HIST4H4-1:2	SEQ5750	8.E-05	0.3	All AD	LUCAT1:24	SEQ5510	2.E-02	0.7
All AD	lnc-HIST4H4-4:1	SEQ4860	5.E-02	0.8	FTD	LUCAT1:3	SEQ5511	2.E-04	0.6
DLB	lnc-HIST4H4-5:3	SEQ5897	2.E-05	2.0	All AD	LUCAT1:3	SEQ5511	2.E-02	0.7
DLB	lnc-HLA-B-2:13	SEQ4606	2.E-04	0.2	FTD	MALAT1:16	SEQ4201	5.E-04	0.4
MCI	lnc-HLA-B-2:13	SEQ4606	1.E-03	0.2	msAD	MALAT1:16	SEQ4201	1.E-02	0.5
MCI	lnc-HLA-DMA-1:1	SEQ5942	2.E-07	1.7	All AD	MALAT1:16	SEQ4201	2.E-02	0.5
DLB	lnc-HLA-DMA-1:1	SEQ5942	4.E-06	1.7	MCI	MALAT1:24	SEQ4397	2.E-04	0.5
FTD	lnc-HLA-DMA-1:1	SEQ5942	1.E-05	1.4	DLB	MALAT1:24	SEQ4397	2.E-03	0.6
FTD	lnc-HLA-DQA1-7:1	SEQ5335	6.E-05	1.7	miAD	MALAT1:32	SEQ3633	7.E-03	0.6
DLB	lnc-HLA-DQA1-7:1	SEQ5335	4.E-04	1.7	All AD	MALAT1:32	SEQ3633	1.E-02	0.6
DLB	lnc-HLA-DRB1-5:1	SEQ4166	8.E-04	2.7	msAD	MALAT1:32	SEQ3633	5.E-02	0.7
All AD	lnc-HLA-DRB1-5:1	SEQ4166	4.E-03	1.6	FTD	MALAT1:33	SEQ5927	3.E-11	4.E-15
msAD	lnc-HLA-DRB1-5:1	SEQ4166	7.E-03	1.6	DLB	MALAT1:33	SEQ5927	1.E-05	3.E-15
miAD	lnc-HLA-DRB1-5:1	SEQ4166	1.E-02	1.5	MCI	MALAT1:33	SEQ5927	1.E-05	3.E-15
DLB	lnc-HLA-DRB1-5:2	SEQ5347	4.E-04	2.4	MCI	MALAT1:38	SEQ5650	1.E-06	0.3
DLB	lnc-HMGA1-2:4	SEQ3415	5.E-04	1.3	FTD	MALAT1:38	SEQ5650	2.E-06	0.3
FTD	lnc-HMGB1-4:1	SEQ5160	5.E-04	0.7	DLB	MALAT1:38	SEQ5650	1.E-04	0.4
FTD	lnc-HMGB2-5:1	SEQ3870	3.E-05	0.6	DLB	MALAT1:4	SEQ4834	9.E-04	1.4
miAD	lnc-HMGB2-5:1	SEQ3870	6.E-03	0.8	MCI	MALAT1:40	SEQ5556	2.E-04	0.4
All AD	lnc-HMGB2-5:1	SEQ3870	7.E-03	0.8	DLB	MALAT1:43	SEQ5018	7.E-04	1.4
msAD	lnc-HMGB2-5:1	SEQ3870	3.E-02	0.8	DLB	MALAT1:5	SEQ5019	7.E-04	1.4
FTD	lnc-HMGB2-8:1	SEQ5802	6.E-05	0.6	DLB	MALAT1:6	SEQ5016	7.E-04	1.4
FTD	lnc-HMGN5-3:1	SEQ3416	1.E-09	0.4	DLB	MAP3K14-AS1:27	SEQ5184	5.E-04	1.5
MCI	lnc-HMGN5-3:1	SEQ3416	2.E-05	0.5	MCI	MAP3K14-AS1:28	SEQ4862	9.E-04	1.5

All AD	lnc-HMGN5-3:1	SEQ3416	1.E-03	0.6	DLB	MAP3K14-AS1:28	SEQ4862	9.E-04	1.6
miAD	lnc-HMGN5-3:1	SEQ3416	3.E-03	0.6	FTD	MAP3K20-AS1:6	SEQ5508	2.E-04	0.5
msAD	lnc-HMGN5-3:1	SEQ3416	4.E-03	0.6	All AD	MATN1-AS1:2	SEQ5940	3.E-02	1.2
FTD	lnc-HNRNPA2B1-14:2	SEQ5828	5.E-05	0.5	DLB	MBNL1-AS1:10	SEQ5456	3.E-04	1.9
FTD	lnc-HNRNPA2B1-15:1	SEQ4878	6.E-10	0.3	DLB	MBNL1-AS1:5	SEQ4754	1.E-03	1.4
MCI	lnc-HNRNPA2B1-15:1	SEQ4878	3.E-06	0.3	miAD	MBNL1-AS1:8	SEQ4335	6.E-03	1.5
DLB	lnc-HNRNPA2B1-15:1	SEQ4878	5.E-04	0.4	All AD	MBNL1-AS1:8	SEQ4335	1.E-02	1.3
miAD	lnc-HNRNPA2B1-15:1	SEQ4878	6.E-04	0.4	DLB	MCM3AP-AS1:8	SEQ4507	2.E-03	1.5
All AD	lnc-HNRNPA2B1-15:1	SEQ4878	3.E-03	0.5	FTD	MIF-AS1:7	SEQ3858	8.E-06	1.7
MCI	lnc-HNRNPA2B1-15:3	SEQ4795	1.E-03	2.8	MCI	MIF-AS1:7	SEQ3858	9.E-06	1.8
FTD	lnc-HNRNPA2B1-15:4	SEQ4601	1.E-06	0.5	DLB	MIF-AS1:7	SEQ3858	1.E-05	1.9
MCI	lnc-HNRNPA2B1-15:4	SEQ4601	2.E-05	0.5	miAD	MIF-AS1:7	SEQ3858	7.E-03	1.3
miAD	lnc-HNRNPA2B1-15:4	SEQ4601	1.E-03	0.6	All AD	MIF-AS1:7	SEQ3858	8.E-03	1.3
All AD	lnc-HNRNPA2B1-15:4	SEQ4601	6.E-03	0.6	msAD	MIF-AS1:7	SEQ3858	3.E-02	1.3
All AD	lnc-HNRNPA2B1-15:5	SEQ4882	4.E-02	0.7	FTD	MIR133A1HG:2	SEQ5642	1.E-04	0.6
MCI	lnc-HNRNPA3-2:2	SEQ5073	2.E-04	1.8	FTD	MIR133A1HG:3	SEQ5855	4.E-05	0.5
DLB	lnc-HNRNPA3-2:2	SEQ5073	5.E-04	1.7	MCI	MIR17HG:13	SEQ5996	7.E-07	3.1
FTD	lnc-HNRNPA3-2:2	SEQ5073	7.E-04	1.5	FTD	MIR17HG:21	SEQ4799	1.E-03	0.4
FTD	lnc-HNRNPLL-4:1	SEQ4287	2.E-06	0.5	FTD	MIR181A2HG:1	SEQ3905	9.E-04	0.6
msAD	lnc-HNRNPLL-4:1	SEQ4287	7.E-03	0.7	miAD	MIR181A2HG:1	SEQ3905	5.E-03	0.6
All AD	lnc-HNRNPLL-4:1	SEQ4287	8.E-03	0.7	All AD	MIR181A2HG:1	SEQ3905	6.E-03	0.7
FTD	lnc-HNRNPU-1:3	SEQ4467	4.E-04	0.4	msAD	MIR181A2HG:1	SEQ3905	3.E-02	0.8
MCI	lnc-HNRNPU-1:3	SEQ4467	2.E-03	0.4	FTD	MIR222HG:26	SEQ5396	3.E-04	0.5
FTD	lnc-HNRNPU-1:6	SEQ4889	7.E-05	0.4	DLB	MIR29B2CHG:14	SEQ5637	2.E-04	1.9
All AD	lnc-HNRNPU-1:6	SEQ4889	5.E-02	0.6	DLB	MIR29B2CHG:21	SEQ4530	2.E-03	1.8
DLB	lnc-HOMEZ-1:6	SEQ5032	7.E-04	1.5	DLB	MIR29B2CHG:22	SEQ4655	1.E-03	1.9
All AD	lnc-HPCA-1:1	SEQ4891	4.E-02	0.8	MCI	MIR29B2CHG:28	SEQ5457	3.E-04	1.9
FTD	lnc-HPGD-5:1	SEQ5827	5.E-05	0.5	FTD	MIR29B2CHG:33	SEQ0583	2.E-05	0.4
DLB	lnc-HSD11B2-1:1	SEQ2525	1.E-03	1.3	All AD	MIR29B2CHG:33	SEQ0583	2.E-02	0.7
DLB	lnc-HSD17B6-3:1	SEQ3950	7.E-07	2.0	All AD	MIR29B2CHG:34	SEQ5945	2.E-02	0.7
MCI	lnc-HSD17B6-3:1	SEQ3950	3.E-06	1.8	MCI	MIR29B2CHG:48	SEQ5099	7.E-06	0.3
FTD	lnc-HSD17B6-3:1	SEQ3950	6.E-06	1.7	FTD	MIR29B2CHG:48	SEQ5099	1.E-05	0.3
All AD	lnc-HSD17B6-3:1	SEQ3950	2.E-02	1.2	DLB	MIR29B2CHG:48	SEQ5099	6.E-04	0.3
msAD	lnc-HSD17B6-3:1	SEQ3950	3.E-02	1.2	DLB	MIR29B2CHG:8	SEQ4457	5.E-05	2.0
All AD	lnc-HSDL1-2:1	SEQ3753	3.E-02	1.1	MCI	MIR29B2CHG:8	SEQ4457	2.E-03	1.9
msAD	lnc-HSDL1-2:1	SEQ3753	4.E-02	1.2	All AD	MIR3936HG:4	SEQ3771	2.E-02	0.7
FTD	lnc-HSP90AA1-13:1	SEQ5591	2.E-04	0.6	msAD	MIR3936HG:4	SEQ3771	4.E-02	0.7
All AD	lnc-HSP90AA1-15:2	SEQ4897	4.E-02	0.8	DLB	MIR4435-2HG:43	SEQ4650	1.E-03	1.8
DLB	lnc-HSP90AA1-2:1	SEQ5612	2.E-04	1.4	FTD	MIR4435-2HG:6	SEQ5005	8.E-04	1.7
DLB	lnc-HSPB1-4:4	SEQ5813	5.E-05	1.4	DLB	MIR4453HG:2	SEQ3568	1.E-03	1.4
DLB	lnc-HUS1B-2:1	SEQ4588	2.E-03	1.6	DLB	MIR600HG:4	SEQ3892	6.E-04	1.9
DLB	lnc-HYAL4-4:6	SEQ4618	2.E-04	1.5	msAD	MIR600HG:4	SEQ3892	3.E-02	1.4
MCI	lnc-HYAL4-4:6	SEQ4618	1.E-03	1.4	All AD	MIR600HG:4	SEQ3892	4.E-02	1.3

DLB	lnc-ICA1L-7:1	SEQ4901	5.E-04	2.1	DLB	MIR600HG:5	SEQ3676	1.E-03	2.0
MCI	lnc-ICA1L-7:1	SEQ4901	5.E-04	2.1	msAD	MIR600HG:5	SEQ3676	5.E-02	1.4
All AD	lnc-ICA1L-7:1	SEQ4901	5.E-02	1.3	FTD	MIR646HG:26	SEQ3222	9.E-04	0.6
MCI	lnc-ICAM5-1:1	SEQ4240	1.E-05	1.7	FTD	MIR646HG:29	SEQ3928	1.E-05	0.5
DLB	lnc-ICAM5-1:1	SEQ4240	1.E-05	1.9	miAD	MIR646HG:29	SEQ3928	1.E-03	0.6
FTD	lnc-ICAM5-1:1	SEQ4240	2.E-04	1.4	All AD	MIR646HG:29	SEQ3928	3.E-03	0.6
All AD	lnc-ICAM5-1:1	SEQ4240	4.E-03	1.3	msAD	MIR646HG:29	SEQ3928	3.E-02	0.7
miAD	lnc-ICAM5-1:1	SEQ4240	8.E-03	1.3	miAD	MIR646HG:35	SEQ4313	7.E-03	0.7
msAD	lnc-ICAM5-1:1	SEQ4240	1.E-02	1.3	All AD	MIR646HG:35	SEQ4313	2.E-02	0.8
DLB	lnc-ICOSLG-6:12	SEQ4450	8.E-04	1.6	FTD	MME-AS1:2	SEQ4056	2.E-06	0.4
MCI	lnc-ICOSLG-6:12	SEQ4450	2.E-03	1.6	miAD	MME-AS1:2	SEQ4056	3.E-03	0.6
miAD	lnc-IDE-3:1	SEQ4211	1.E-02	0.7	All AD	MME-AS1:2	SEQ4056	3.E-03	0.6
MCI	lnc-IER3-7:16	SEQ5183	5.E-04	1.5	msAD	MME-AS1:2	SEQ4056	2.E-02	0.6
MCI	lnc-IER3-7:17	SEQ4560	1.E-04	1.6	MCI	MMP25-AS1:17	SEQ4787	1.E-03	1.8
DLB	lnc-IER3-7:17	SEQ4560	2.E-03	1.4	All AD	MMP25-AS1:24	SEQ5949	3.E-02	0.8
DLB	lnc-IER5-4:1	SEQ5876	3.E-05	1.5	MCI	MRPL23-AS1:10	SEQ3942	9.E-05	1.7
DLB	lnc-IFT140-2:1	SEQ5623	2.E-04	1.6	DLB	MRPL23-AS1:10	SEQ3942	1.E-04	1.7
FTD	lnc-IGIP-2:3	SEQ3421	8.E-06	0.3	FTD	MRPL23-AS1:10	SEQ3942	7.E-04	1.5
MCI	lnc-IGIP-2:3	SEQ3421	2.E-04	0.3	msAD	MRPL23-AS1:10	SEQ3942	3.E-02	1.2
DLB	lnc-IGIP-2:3	SEQ3421	2.E-03	0.4	All AD	MRPL23-AS1:10	SEQ3942	3.E-02	1.2
miAD	lnc-IGIP-5:1	SEQ2977	1.E-02	0.7	MCI	MRPS30-DT:11	SEQ4024	2.E-04	1.7
All AD	lnc-IGIP-5:1	SEQ2977	2.E-02	0.7	DLB	MRPS30-DT:11	SEQ4024	9.E-04	1.6
MCI	lnc-IGLON5-6:10	SEQ4600	8.E-05	2.1	All AD	MRPS30-DT:11	SEQ4024	1.E-02	1.3
msAD	lnc-IGLON5-6:10	SEQ4600	1.E-03	1.7	msAD	MRPS30-DT:11	SEQ4024	2.E-02	1.3
DLB	lnc-IGLON5-6:10	SEQ4600	2.E-03	1.9	FTD	MRVI1-AS1:16	SEQ5778	7.E-05	0.6
All AD	lnc-IGLON5-6:10	SEQ4600	4.E-03	1.5	FTD	MYLK-AS1:13	SEQ5471	3.E-04	0.7
FTD	lnc-IGLON5-6:3	SEQ4129	1.E-08	4.7	DLB	MYLK-AS1:16	SEQ3954	1.E-03	1.5
MCI	lnc-IGLON5-6:3	SEQ4129	3.E-08	7.5	MCI	MYLK-AS1:16	SEQ3954	2.E-03	1.5
DLB	lnc-IGLON5-6:3	SEQ4129	3.E-05	3.7	msAD	MYLK-AS1:16	SEQ3954	3.E-02	1.3
All AD	lnc-IGLON5-6:3	SEQ4129	1.E-02	1.6	miAD	MZF1-AS1:11	SEQ4877	6.E-04	1.9
msAD	lnc-IGLON5-6:3	SEQ4129	1.E-02	1.7	DLB	MZF1-AS1:11	SEQ4877	9.E-04	2.1
DLB	lnc-IGLON5-6:5	SEQ4265	2.E-03	1.7	All AD	MZF1-AS1:11	SEQ4877	3.E-03	1.6
msAD	lnc-IGLON5-6:5	SEQ4265	9.E-03	1.4	FTD	N4BP2L2-IT2:1	SEQ5958	7.E-06	0.6
FTD	lnc-IGSF10-8:1	SEQ5929	1.E-05	0.5	DLB	NAPA-AS1:10	SEQ5425	3.E-04	1.4
DLB	lnc-IKBIP-1:1	SEQ4407	2.E-03	1.4	All AD	NCAM1-AS1:1	SEQ5953	4.E-02	0.7
DLB	lnc-IL18BP-1:1	SEQ3303	1.E-03	1.5	miAD	NCF4-AS1:4	SEQ4261	9.E-03	0.7
DLB	lnc-IL18BP-1:2	SEQ3422	8.E-04	1.5	All AD	NCF4-AS1:4	SEQ4261	3.E-02	0.8
MCI	lnc-IL18BP-1:2	SEQ3422	1.E-03	1.4	MCI	NEAT1:11	SEQ4370	1.E-08	6.E+04
DLB	lnc-IL18BP-1:3	SEQ3423	2.E-03	1.5	FTD	NEAT1:11	SEQ4370	8.E-07	16.4
FTD	lnc-IL18R1-1:1	SEQ4043	5.E-04	0.6	DLB	NEAT1:11	SEQ4370	2.E-04	5.6
All AD	lnc-IL18R1-1:1	SEQ4043	1.E-02	0.7	miAD	NEAT1:11	SEQ4370	4.E-03	2.4
msAD	lnc-IL18R1-1:1	SEQ4043	2.E-02	0.7	All AD	NEAT1:11	SEQ4370	2.E-02	1.9
DLB	lnc-IL1RN-5:1	SEQ4497	2.E-03	1.4	MCI	NEAT1:12	SEQ4350	2.E-06	3.E+02

DLB	lnc-IL23A-2:5	SEQ4425	2.E-03	1.5	FTD	NEAT1:12	SEQ4350	1.E-05	8.4
msAD	lnc-IL23A-2:6	SEQ4341	5.E-03	1.2	miAD	NEAT1:12	SEQ4350	5.E-03	2.4
All AD	lnc-IL23A-2:6	SEQ4341	1.E-02	1.2	All AD	NEAT1:12	SEQ4350	1.E-02	2.2
DLB	lnc-IL2RA-5:1	SEQ4484	2.E-03	1.4	FTD	NEAT1:18	SEQ3809	5.E-05	0.2
DLB	lnc-IL31RA-1:1	SEQ2680	3.E-04	1.6	miAD	NEAT1:18	SEQ3809	1.E-03	0.1
MCI	lnc-IL31RA-1:1	SEQ2680	2.E-03	1.5	DLB	NEAT1:18	SEQ3809	1.E-03	0.3
miAD	lnc-IL31RA-1:1	SEQ2680	3.E-03	1.4	All AD	NEAT1:18	SEQ3809	3.E-03	0.2
All AD	lnc-IL31RA-1:1	SEQ2680	4.E-03	1.3	msAD	NEAT1:18	SEQ3809	4.E-02	0.3
msAD	lnc-IL31RA-1:1	SEQ2680	3.E-02	1.3	FTD	NEAT1:20	SEQ4469	2.E-06	0.5
MCI	lnc-IL31RA-6:2	SEQ4535	2.E-03	2.2	DLB	NEAT1:20	SEQ4469	5.E-04	0.6
All AD	lnc-IL31RA-6:2	SEQ4535	4.E-02	1.4	MCI	NEAT1:20	SEQ4469	2.E-03	0.5
DLB	lnc-IL9R-1:3	SEQ5657	1.E-04	1.5	All AD	NEAT1:20	SEQ4469	3.E-02	0.7
DLB	lnc-INO80E-2:2	SEQ5191	5.E-04	1.5	All AD	NEAT1:21	SEQ5957	3.E-02	0.8
FTD	lnc-INSL4-4:1	SEQ5105	2.E-05	0.6	miAD	NEAT1:22	SEQ4986	2.E-06	0.5
MCI	lnc-INSL4-4:1	SEQ5105	6.E-04	0.6	All AD	NEAT1:22	SEQ4986	2.E-05	0.6
FTD	lnc-INSL4-5:1	SEQ4133	4.E-07	0.5	msAD	NEAT1:22	SEQ4986	8.E-04	0.6
miAD	lnc-INSL4-5:1	SEQ4133	1.E-02	0.7	MCI	NEAT1:7	SEQ4362	4.E-08	8.E+03
All AD	lnc-INSL4-5:1	SEQ4133	3.E-02	0.7	FTD	NEAT1:7	SEQ4362	8.E-06	4.8
FTD	lnc-INSL4-6:1	SEQ5423	1.E-07	0.4	miAD	NEAT1:7	SEQ4362	4.E-03	2.1
MCI	lnc-INSL4-6:1	SEQ5423	3.E-04	0.5	All AD	NEAT1:7	SEQ4362	1.E-02	2.2
FTD	lnc-INSL4-8:1	SEQ5406	3.E-04	0.6	FTD	NEAT1:8	SEQ4734	4.E-07	0.4
FTD	lnc-INSL4-9:1	SEQ4937	8.E-07	0.5	MCI	NEAT1:8	SEQ4734	1.E-03	0.5
MCI	lnc-INSL4-9:1	SEQ4937	1.E-04	0.5	All AD	NEAT1:8	SEQ4734	2.E-02	0.5
All AD	lnc-INSL4-9:1	SEQ4937	3.E-02	0.7	MCI	NIPBL-AS1:1	SEQ5100	6.E-04	0.4
FTD	lnc-INSL6-3:1	SEQ4906	9.E-04	0.7	DLB	NIPBL-AS1:2	SEQ4983	8.E-04	2.2
FTD	lnc-INTS14-1:2	SEQ5083	6.E-04	0.6	FTD	NIPBL-AS1:6	SEQ5744	9.E-05	0.6
FTD	lnc-INTS9-2:1	SEQ4940	8.E-05	0.6	FTD	NORAD:10	SEQ4733	7.E-07	2.1
All AD	lnc-INTS9-2:1	SEQ4940	3.E-02	0.8	DLB	NORAD:10	SEQ4733	1.E-05	2.0
All AD	lnc-IPCEF1-2:1	SEQ4941	3.E-02	1.2	MCI	NORAD:10	SEQ4733	9.E-05	2.1
DLB	lnc-IQCF6-2:2	SEQ4856	9.E-04	1.5	All AD	NORAD:10	SEQ4733	4.E-04	1.4
All AD	lnc-IQCG-16:1	SEQ4943	3.E-02	0.7	miAD	NORAD:10	SEQ4733	1.E-03	1.4
All AD	lnc-IRF1-2:1	SEQ4944	3.E-02	0.8	msAD	NORAD:10	SEQ4733	1.E-03	1.4
All AD	lnc-IRF1-2:6	SEQ4945	3.E-02	0.8	FTD	NORAD:2	SEQ3125	1.E-08	4.2
DLB	lnc-IRF1-6:1	SEQ5756	8.E-05	1.8	MCI	NORAD:2	SEQ3125	4.E-06	3.6
DLB	lnc-IRF7-1:1	SEQ5624	1.E-05	1.8	DLB	NORAD:2	SEQ3125	2.E-05	2.8
MCI	lnc-IRF7-1:1	SEQ5624	2.E-04	1.6	All AD	NORAD:2	SEQ3125	2.E-03	1.5
All AD	lnc-IRS2-1:6	SEQ3812	1.E-02	0.6	miAD	NORAD:2	SEQ3125	3.E-03	1.5
miAD	lnc-IRS2-1:6	SEQ3812	2.E-02	0.5	msAD	NORAD:2	SEQ3125	1.E-02	1.5
msAD	lnc-IRS2-1:6	SEQ3812	4.E-02	0.6	All AD	NORAD:5	SEQ3646	3.E-02	1.2
msAD	lnc-IRS2-9:1	SEQ3896	3.E-02	0.8	msAD	NORAD:5	SEQ3646	5.E-02	1.2
All AD	lnc-IRS2-9:1	SEQ3896	4.E-02	0.8	FTD	NORAD:8	SEQ2585	8.E-07	0.3
MCI	lnc-ITGB1BP2-2:1	SEQ2701	1.E-03	0.7	MCI	NORAD:8	SEQ2585	3.E-06	0.3
DLB	lnc-ITGB1BP2-2:3	SEQ5562	2.E-04	1.5	All AD	NORAD:8	SEQ2585	3.E-02	0.5

DLB	lnc-ITPA-1:1	SEQ5904	2.E-05	1.4	FTD	NORAD:9	SEQ2494	4.E-04	0.4
MCI	lnc-ITPA-2:3	SEQ4577	2.E-03	1.5	MCI	NORAD:9	SEQ2494	6.E-04	0.5
DLB	lnc-ITPA-2:3	SEQ4577	2.E-03	1.5	All AD	NORAD:9	SEQ2494	5.E-02	0.6
FTD	lnc-JAK1-2:2	SEQ4953	4.E-04	0.7	DLB	NRSN2-AS1:11	SEQ5450	3.E-04	1.7
All AD	lnc-JAK1-2:2	SEQ4953	2.E-02	0.8	FTD	NUP50-AS1:20	SEQ5088	6.E-04	0.6
FTD	lnc-JCAD-10:1	SEQ4954	1.E-05	0.6	FTD	NUP50-AS1:22	SEQ4654	4.E-04	1.7
All AD	lnc-JCAD-10:1	SEQ4954	3.E-02	0.8	DLB	NUP50-AS1:22	SEQ4654	7.E-04	1.9
DLB	lnc-JMJD7-PLA2G4B-2:8	SEQ3428	8.E-04	1.6	MCI	NUP50-AS1:22	SEQ4654	1.E-03	1.9
DLB	lnc-JSRP1-1:2	SEQ5710	5.E-05	1.8	FTD	NUP50-AS1:27	SEQ5356	4.E-04	0.6
MCI	lnc-JSRP1-1:2	SEQ5710	1.E-04	1.8	MCI	NUTM2A-AS1:2	SEQ5749	8.E-05	0.3
DLB	lnc-JSRP1-2:1	SEQ4495	2.E-03	1.4	FTD	NUTM2A-AS1:28	SEQ5222	5.E-04	0.5
MCI	lnc-JUNB-1:1	SEQ5422	1.E-05	1.8	MCI	NUTM2A-AS1:30	SEQ5903	2.E-05	0.3
DLB	lnc-JUNB-1:1	SEQ5422	1.E-04	1.6	FTD	NUTM2A-AS1:34	SEQ4337	3.E-07	0.5
FTD	lnc-JUNB-1:1	SEQ5422	3.E-04	1.5	MCI	NUTM2A-AS1:34	SEQ4337	2.E-04	0.6
MCI	lnc-KANTR-2:1	SEQ4836	9.E-04	1.4	miAD	NUTM2A-AS1:34	SEQ4337	5.E-03	0.7
DLB	lnc-KBTBD4-4:1	SEQ4614	1.E-03	1.3	All AD	NUTM2A-AS1:34	SEQ4337	2.E-02	0.7
MCI	lnc-KCNC2-1:1	SEQ4321	9.E-05	1.7	FTD	NUTM2B-AS1:20	SEQ5596	2.E-04	0.4
DLB	lnc-KCNC2-1:1	SEQ4321	2.E-04	1.7	FTD	NUTM2B-AS1:42	SEQ4813	1.E-03	0.7
All AD	lnc-KCNC2-1:1	SEQ4321	1.E-03	1.3	FTD	NUTM2B-AS1:53	SEQ0004	8.E-04	0.5
miAD	lnc-KCNC2-1:1	SEQ4321	1.E-03	1.3	FTD	OIP5-AS1:15	SEQ4823	3.E-06	0.2
msAD	lnc-KCNC2-1:1	SEQ4321	6.E-03	1.3	MCI	OIP5-AS1:15	SEQ4823	6.E-06	0.2
DLB	lnc-KCNC3-1:4	SEQ4083	2.E-05	2.0	DLB	OIP5-AS1:15	SEQ4823	9.E-04	0.2
msAD	lnc-KCNC3-1:4	SEQ4083	1.E-02	1.3	DLB	OIP5-AS1:18	SEQ5034	7.E-04	1.5
All AD	lnc-KCNC3-1:4	SEQ4083	5.E-02	1.2	FTD	OIP5-AS1:25	SEQ5168	4.E-07	0.4
FTD	lnc-KCNE1B-10:2	SEQ5585	2.E-04	0.2	MCI	OIP5-AS1:25	SEQ5168	5.E-04	0.5
msAD	lnc-KCNE1B-10:3	SEQ4324	6.E-03	1.6	MCI	OIP5-AS1:3	SEQ4919	8.E-04	0.5
All AD	lnc-KCNE1B-10:3	SEQ4324	4.E-02	1.4	FTD	OIP5-AS1:36	SEQ5807	6.E-05	0.7
miAD	lnc-KCNE1B-2:1	SEQ4161	1.E-02	1.3	miAD	OR2A1-AS1:20	SEQ4272	8.E-03	1.5
miAD	lnc-KCNE1B-5:1	SEQ4162	1.E-02	1.3	All AD	OR2A1-AS1:20	SEQ4272	1.E-02	1.4
FTD	lnc-KCNE1B-7:1	SEQ4885	2.E-04	2.6	DLB	PAN3-AS1:1	SEQ4842	6.E-04	1.5
MCI	lnc-KCNE1B-7:1	SEQ4885	6.E-04	2.9	MCI	PAN3-AS1:1	SEQ4842	9.E-04	1.4
DLB	lnc-KCNE1B-7:1	SEQ4885	9.E-04	2.9	DLB	PAN3-AS1:2	SEQ4843	6.E-04	1.5
DLB	lnc-KCNE1B-7:2	SEQ5056	7.E-04	2.8	MCI	PAN3-AS1:2	SEQ4843	9.E-04	1.4
MCI	lnc-KCNE1B-7:2	SEQ5056	7.E-04	2.9	All AD	PCBP1-AS1:205	SEQ3681	2.E-02	0.7
MCI	lnc-KCNE1B-7:5	SEQ3702	3.E-05	3.2	msAD	PCBP1-AS1:205	SEQ3681	5.E-02	0.8
miAD	lnc-KCNE1B-7:5	SEQ3702	7.E-05	1.7	All AD	PCBP1-AS1:213	SEQ5966	3.E-02	0.7
DLB	lnc-KCNE1B-7:5	SEQ3702	1.E-04	2.5	DLB	PCBP1-AS1:217	SEQ3458	5.E-04	1.2
All AD	lnc-KCNE1B-7:5	SEQ3702	1.E-03	1.5	FTD	PCBP1-AS1:302	SEQ4731	3.E-11	0.2
msAD	lnc-KCNE1B-7:5	SEQ3702	5.E-02	1.3	MCI	PCBP1-AS1:302	SEQ4731	3.E-08	0.3
FTD	lnc-KCNE1B-7:9	SEQ4884	3.E-07	11.9	miAD	PCBP1-AS1:302	SEQ4731	2.E-06	0.2
MCI	lnc-KCNE1B-7:9	SEQ4884	9.E-04	2.7	DLB	PCBP1-AS1:302	SEQ4731	1.E-05	0.3
MCI	lnc-KCNE4-7:1	SEQ2466	1.E-03	0.6	All AD	PCBP1-AS1:302	SEQ4731	2.E-05	0.3
FTD	lnc-KCNE5-3:1	SEQ5723	3.E-06	0.5	msAD	PCBP1-AS1:302	SEQ4731	1.E-03	0.3

MCI	lnc-KCNE5-3:1	SEQ5723	9.E-05	0.6	All AD	PCBP1-AS1:304	SEQ3972	2.E-02	0.7
FTD	lnc-KCNRG-1:1	SEQ2856	6.E-08	0.5	msAD	PCBP1-AS1:304	SEQ3972	2.E-02	0.7
MCI	lnc-KCNRG-1:1	SEQ2856	8.E-04	0.6	DLB	PCED1B-AS1:21	SEQ5279	5.E-04	1.8
miAD	lnc-KCNRG-1:1	SEQ2856	6.E-03	0.7	MCI	PCED1B-AS1:21	SEQ5279	5.E-04	1.9
All AD	lnc-KCNRG-1:1	SEQ2856	7.E-03	0.7	MCI	PCED1B-AS1:24	SEQ4320	4.E-05	3.5
msAD	lnc-KCNRG-1:1	SEQ2856	3.E-02	0.7	DLB	PCED1B-AS1:24	SEQ4320	6.E-05	3.0
FTD	lnc-KCNRG-2:2	SEQ4270	1.E-08	0.5	miAD	PCED1B-AS1:24	SEQ4320	6.E-03	1.6
MCI	lnc-KCNRG-2:2	SEQ4270	1.E-05	0.5	All AD	PCED1B-AS1:24	SEQ4320	2.E-02	1.4
miAD	lnc-KCNRG-2:2	SEQ4270	2.E-04	0.6	MCI	PCED1B-AS1:4	SEQ5455	2.E-04	1.9
All AD	lnc-KCNRG-2:2	SEQ4270	5.E-04	0.7	DLB	PCED1B-AS1:4	SEQ5455	3.E-04	1.9
msAD	lnc-KCNRG-2:2	SEQ4270	8.E-03	0.7	MCI	PCED1B-AS1:7	SEQ5348	4.E-04	3.1
FTD	lnc-KCNRG-5:2	SEQ4075	1.E-08	0.5	All AD	PCED1B-AS1:7	SEQ5348	3.E-02	1.4
MCI	lnc-KCNRG-5:2	SEQ4075	9.E-05	0.6	MCI	PCF11-AS1:12	SEQ5841	4.E-05	0.5
miAD	lnc-KCNRG-5:2	SEQ4075	1.E-03	0.6	FTD	PDCD4-AS1:5	SEQ5721	1.E-04	0.6
All AD	lnc-KCNRG-5:2	SEQ4075	2.E-03	0.7	DLB	PDCD4-AS1:6	SEQ5401	1.E-05	1.9
msAD	lnc-KCNRG-5:2	SEQ4075	1.E-02	0.7	MCI	PDCD4-AS1:6	SEQ5401	6.E-05	1.7
DLB	lnc-KCNT1-1:7	SEQ5577	2.E-04	1.7	FTD	PDCD4-AS1:6	SEQ5401	3.E-04	1.5
DLB	lnc-KCNT1-6:1	SEQ2699	1.E-03	1.4	DLB	PIK3CD-AS1:1	SEQ5793	6.E-05	1.6
DLB	lnc-KDM3A-1:4	SEQ0104	2.E-03	1.4	DLB	PIK3CD-AS2:10	SEQ5127	6.E-04	1.6
DLB	lnc-KDM4C-18:1	SEQ5474	2.E-04	0.5	MCI	PIK3CD-AS2:8	SEQ5460	2.E-04	2.0
MCI	lnc-KIAA0319L-1:4	SEQ4874	9.E-04	1.8	DLB	PIK3CD-AS2:8	SEQ5460	3.E-04	2.0
All AD	lnc-KIAA0355-5:1	SEQ4993	3.E-02	0.8	DLB	PIK3IP1-AS1:12	SEQ5029	7.E-04	1.5
FTD	lnc-KIAA0391-1:1	SEQ3817	3.E-04	0.7	All AD	PIK3IP1-AS1:12	SEQ5029	4.E-02	1.2
All AD	lnc-KIAA0391-1:1	SEQ3817	3.E-02	0.8	All AD	PIK3IP1-AS1:3	SEQ5973	2.E-02	1.3
msAD	lnc-KIAA0391-1:1	SEQ3817	4.E-02	0.8	MCI	PINK1-AS:2	SEQ5500	2.E-04	2.3
FTD	lnc-KIAA0825-1:2	SEQ4996	5.E-08	0.5	All AD	PLBD1-AS1:6	SEQ3960	8.E-03	0.7
MCI	lnc-KIAA0825-1:2	SEQ4996	5.E-04	0.7	miAD	PLBD1-AS1:6	SEQ3960	1.E-02	0.8
All AD	lnc-KIAA0825-1:2	SEQ4996	2.E-02	0.7	msAD	PLBD1-AS1:6	SEQ3960	2.E-02	0.7
MCI	lnc-KIAA1109-1:1	SEQ5381	2.E-04	1.6	miAD	PLBD1-AS1:7	SEQ4173	2.E-04	0.8
DLB	lnc-KIAA1109-1:1	SEQ5381	3.E-04	1.6	All AD	PLBD1-AS1:7	SEQ4173	7.E-04	0.8
DLB	lnc-KIAA1549L-1:1	SEQ5427	2.E-04	1.3	msAD	PLBD1-AS1:7	SEQ4173	1.E-02	0.8
MCI	lnc-KIAA1549L-1:1	SEQ5427	3.E-04	1.4	FTD	POC1B-AS1:8	SEQ5156	5.E-04	0.6
All AD	lnc-KIAA1551-13:1	SEQ3715	3.E-02	0.8	FTD	PPP3CB-AS1:4	SEQ5981	2.E-06	0.4
msAD	lnc-KIAA1551-13:1	SEQ3715	4.E-02	0.8	DLB	PRKAG2-AS1:1	SEQ5488	1.E-04	1.7
All AD	lnc-KIAA1551-2:1	SEQ4066	9.E-03	0.7	MCI	PRKAG2-AS1:1	SEQ5488	2.E-04	1.6
msAD	lnc-KIAA1551-2:1	SEQ4066	2.E-02	0.7	FTD	PRKCQ-AS1:11	SEQ4800	1.E-03	0.5
FTD	lnc-KIAA1551-4:1	SEQ4359	3.E-06	0.5	MCI	PRKCQ-AS1:3	SEQ4536	3.E-06	4.4
All AD	lnc-KIAA1551-4:1	SEQ4359	9.E-04	0.6	FTD	PRKCQ-AS1:3	SEQ4536	1.E-03	2.1
msAD	lnc-KIAA1551-4:1	SEQ4359	1.E-03	0.7	DLB	PRKCQ-AS1:3	SEQ4536	2.E-03	2.2
miAD	lnc-KIAA1551-4:1	SEQ4359	4.E-03	0.6	MCI	PRKCQ-AS1:36	SEQ4537	3.E-06	4.4
msAD	lnc-KIAA1551-6:1	SEQ3988	2.E-02	0.8	FTD	PRKCQ-AS1:36	SEQ4537	1.E-03	2.1
All AD	lnc-KIAA1551-6:1	SEQ3988	3.E-02	0.8	DLB	PRKCQ-AS1:36	SEQ4537	2.E-03	2.2
FTD	lnc-KIF14-1:2	SEQ3885	1.E-06	0.5	MCI	PRKCQ-AS1:38	SEQ4661	1.E-03	2.1

miAD	lnc-KIF14-1:2	SEQ3885	4.E-04	0.6	All AD	PRKCQ-AS1:45	SEQ5977	3.E-02	1.4
All AD	lnc-KIF14-1:2	SEQ3885	2.E-03	0.6	MCI	PRKCQ-AS1:53	SEQ5501	2.E-04	2.3
msAD	lnc-KIF14-1:2	SEQ3885	3.E-02	0.6	MCI	PRR7-AS1:7	SEQ5332	2.E-04	1.7
DLB	lnc-KIRREL1-1:3	SEQ4531	2.E-03	1.8	DLB	PRR7-AS1:7	SEQ5332	4.E-04	1.7
msAD	lnc-KLF11-1:4	SEQ4039	2.E-02	1.5	DLB	PRR7-AS1:8	SEQ4420	1.E-03	1.4
FTD	lnc-KLF12-4:1	SEQ0938	2.E-05	0.5	MCI	PRR7-AS1:8	SEQ4420	2.E-03	1.4
FTD	lnc-KLF12-5:1	SEQ5149	5.E-04	0.6	All AD	PSMA3-AS1:12	SEQ5979	4.E-02	0.8
FTD	lnc-KLF5-12:1	SEQ5008	5.E-07	0.4	DLB	PSMA3-AS1:16	SEQ4675	1.E-03	1.3
All AD	lnc-KLF5-12:1	SEQ5008	4.E-02	0.7	DLB	PSMA3-AS1:27	SEQ3498	1.E-03	1.6
DLB	lnc-KLHDC9-5:1	SEQ4478	2.E-03	1.3	DLB	PSMA3-AS1:28	SEQ5075	2.E-04	2.5
DLB	lnc-KLHDC9-5:3	SEQ4458	2.E-03	2.2	FTD	PSMA3-AS1:28	SEQ5075	7.E-04	2.2
DLB	lnc-KLHDC9-5:4	SEQ3431	5.E-05	1.5	DLB	PSMA3-AS1:36	SEQ5190	5.E-04	1.5
MCI	lnc-KLHDC9-5:4	SEQ3431	2.E-03	1.3	FTD	PSMA3-AS1:40	SEQ3628	6.E-06	0.5
DLB	lnc-KLHL10-2:1	SEQ2459	2.E-04	1.4	FTD	PSMA3-AS1:41	SEQ5915	2.E-05	0.6
DLB	lnc-KLHL25-1:4	SEQ4938	7.E-04	1.4	msAD	PSMB8-AS1:11	SEQ3937	3.E-02	0.8
MCI	lnc-KLHL25-1:4	SEQ4938	8.E-04	1.4	MCI	PSMB8-AS1:14	SEQ5844	1.E-05	1.6
DLB	lnc-KLHL28-3:5	SEQ2642	5.E-04	1.5	FTD	PSMB8-AS1:14	SEQ5844	1.E-05	1.5
DLB	lnc-KLHL36-4:1	SEQ5382	3.E-06	1.8	DLB	PSMB8-AS1:14	SEQ5844	4.E-05	1.5
FTD	lnc-KLHL36-4:1	SEQ5382	2.E-04	1.5	MCI	PSMB8-AS1:15	SEQ5888	2.E-05	0.2
MCI	lnc-KLHL36-4:1	SEQ5382	3.E-04	1.6	MCI	PSMB8-AS1:16	SEQ5453	3.E-04	1.8
FTD	lnc-KLHL8-2:1	SEQ4998	8.E-04	0.7	DLB	PTOV1-AS1:8	SEQ5212	5.E-04	1.9
All AD	lnc-KLHL8-2:1	SEQ4998	2.E-02	0.8	DLB	PTOV1-AS2:1	SEQ4744	1.E-03	1.4
DLB	lnc-KLHL9-1:1	SEQ5014	4.E-06	1.9	MCI	PVT1:31	SEQ4534	2.E-03	2.0
MCI	lnc-KLHL9-1:1	SEQ5014	2.E-04	1.6	DLB	PXN-AS1:15	SEQ3573	9.E-04	1.5
miAD	lnc-KLHL9-1:1	SEQ5014	7.E-04	1.4	MCI	PXN-AS1:22	SEQ4576	1.E-04	1.7
All AD	lnc-KLHL9-1:1	SEQ5014	4.E-03	1.3	DLB	PXN-AS1:22	SEQ4576	2.E-03	1.5
All AD	lnc-KLLN-1:1	SEQ5017	5.E-02	0.8	MCI	PYCARD-AS1:1	SEQ5028	1.E-04	1.6
msAD	lnc-KLRD1-1:1	SEQ3801	4.E-02	0.7	FTD	PYCARD-AS1:1	SEQ5028	1.E-04	1.5
All AD	lnc-KLRD1-1:1	SEQ3801	4.E-02	0.7	DLB	PYCARD-AS1:1	SEQ5028	7.E-04	1.5
FTD	lnc-KMT2E-6:1	SEQ3952	3.E-06	0.5	DLB	RAB11B-AS1:7	SEQ5538	2.E-04	1.8
All AD	lnc-KMT2E-6:1	SEQ3952	1.E-02	0.6	DLB	RAD51-AS1:1	SEQ5132	6.E-04	1.6
msAD	lnc-KMT2E-6:1	SEQ3952	3.E-02	0.7	DLB	RALY-AS1:13	SEQ5553	2.E-05	1.7
All AD	lnc-KPNA2-6:1	SEQ5021	4.E-02	1.2	MCI	RALY-AS1:13	SEQ5553	6.E-05	1.6
DLB	lnc-KPNA2-6:13	SEQ4978	9.E-05	2.2	FTD	RALY-AS1:13	SEQ5553	2.E-04	1.4
MCI	lnc-KPNA2-6:13	SEQ4978	8.E-04	1.8	All AD	RALY-AS1:13	SEQ5553	4.E-02	1.2
FTD	lnc-KPNA2-6:16	SEQ5883	3.E-05	0.5	miAD	RARA-AS1:3	SEQ4223	1.E-02	0.8
DLB	lnc-KPNA2-6:25	SEQ5284	5.E-04	2.4	All AD	RARA-AS1:3	SEQ4223	3.E-02	0.8
DLB	lnc-KRT80-3:1	SEQ3433	3.E-04	1.5	DLB	RASSF1-AS1:2	SEQ4746	6.E-04	1.6
DLB	lnc-KRTAP5-6-3:1	SEQ4942	8.E-04	1.5	FTD	RASSF1-AS1:2	SEQ4746	1.E-03	1.3
miAD	lnc-KRTDAP-1:2	SEQ4276	8.E-03	0.7	MCI	RASSF1-AS1:2	SEQ4746	1.E-03	1.4
All AD	lnc-KRTDAP-1:2	SEQ4276	1.E-02	0.7	MCI	RBM26-AS1:1	SEQ4319	4.E-06	2.0
All AD	lnc-KRTDAP-1:6	SEQ3868	1.E-02	0.7	DLB	RBM26-AS1:1	SEQ4319	1.E-05	2.1
msAD	lnc-KRTDAP-1:6	SEQ3868	3.E-02	0.7	FTD	RBM26-AS1:1	SEQ4319	4.E-05	1.7

miAD	lnc-KY-4:1	SEQ0123	1.E-02	0.6	All AD	RBM26-AS1:1	SEQ4319	2.E-03	1.3
All AD	lnc-KY-4:1	SEQ0123	2.E-02	0.7	msAD	RBM26-AS1:1	SEQ4319	5.E-03	1.3
DLB	lnc-LAMA5-1:4	SEQ3434	1.E-04	1.5	miAD	RBM26-AS1:1	SEQ4319	6.E-03	1.3
MCI	lnc-LAMA5-1:4	SEQ3434	2.E-03	1.3	DLB	RBM5-AS1:1	SEQ4691	1.E-03	1.4
DLB	lnc-LAMA5-4:1	SEQ3435	1.E-03	1.4	DLB	RBM5-AS1:2	SEQ4489	2.E-03	1.4
All AD	lnc-LASP1-5:1	SEQ2438	2.E-03	0.7	All AD	RC3H1-IT1:1	SEQ5983	2.E-02	0.7
msAD	lnc-LASP1-5:1	SEQ2438	3.E-03	0.7	MCI	RNF219-AS1:16	SEQ4990	3.E-04	0.6
miAD	lnc-LASP1-5:1	SEQ2438	8.E-03	0.7	FTD	RNF219-AS1:16	SEQ4990	8.E-04	0.6
DLB	lnc-LCMT2-1:1	SEQ4769	1.E-03	1.5	MCI	RPARP-AS1:29	SEQ4873	4.E-05	1.8
miAD	lnc-LCOR-4:3	SEQ3289	1.E-02	0.8	DLB	RPARP-AS1:29	SEQ4873	9.E-04	1.8
All AD	lnc-LCOR-4:3	SEQ3289	1.E-02	0.8	DLB	RPARP-AS1:31	SEQ5023	7.E-04	1.5
All AD	lnc-LCOR-4:4	SEQ5033	4.E-02	0.8	All AD	RPS6KB2-AS1:2	SEQ5986	4.E-02	1.2
FTD	lnc-LCP2-3:1	SEQ5766	8.E-05	0.7	DLB	RUSC1-AS1:8	SEQ5658	1.E-04	1.5
DLB	lnc-LDAH-4:1	SEQ4557	2.E-03	1.3	DLB	SATB1-AS1:2	SEQ3794	2.E-03	1.9
MCI	lnc-LDHAL6A-1:2	SEQ4830	9.E-04	1.3	miAD	SATB1-AS1:2	SEQ3794	7.E-03	1.5
DLB	lnc-LEAP2-2:1	SEQ2749	2.E-03	1.3	All AD	SATB1-AS1:2	SEQ3794	8.E-03	1.4
FTD	lnc-LEKR1-7:1	SEQ3831	3.E-04	0.6	msAD	SATB1-AS1:2	SEQ3794	4.E-02	1.4
msAD	lnc-LEKR1-7:1	SEQ3831	3.E-02	0.8	All AD	SATB1-AS1:90	SEQ5987	4.E-02	1.5
All AD	lnc-LEKR1-7:1	SEQ3831	4.E-02	0.8	miAD	SBF2-AS1:7	SEQ4385	3.E-03	0.7
FTD	lnc-LEO1-2:1	SEQ6013	1.E-10	0.3	FTD	SDCBP2-AS1:4	SEQ3711	3.E-04	2.2
All AD	lnc-LEPROTL1-5:1	SEQ4388	5.E-04	1.8	MCI	SDCBP2-AS1:4	SEQ3711	3.E-04	2.4
msAD	lnc-LEPROTL1-5:1	SEQ4388	1.E-03	1.8	DLB	SDCBP2-AS1:4	SEQ3711	5.E-04	2.3
miAD	lnc-LEPROTL1-5:1	SEQ4388	2.E-03	1.7	msAD	SDCBP2-AS1:4	SEQ3711	5.E-02	1.3
DLB	lnc-LEPROTL1-5:2	SEQ4449	2.E-03	1.6	MCI	SGMS1-AS1:10	SEQ5536	2.E-04	1.8
DLB	lnc-LGALS2-1:3	SEQ5164	5.E-05	1.6	All AD	SGMS1-AS1:10	SEQ5536	2.E-02	1.3
FTD	lnc-LGALS2-1:3	SEQ5164	5.E-04	1.4	MCI	SLC25A25-AS1:1	SEQ5910	2.E-05	2.8
DLB	lnc-LGALS2-5:1	SEQ4413	1.E-03	1.4	DLB	SLC25A25-AS1:14	SEQ4871	6.E-04	1.6
MCI	lnc-LGALS2-5:1	SEQ4413	2.E-03	1.4	MCI	SLC25A25-AS1:14	SEQ4871	9.E-04	1.7
DLB	lnc-LGALS7B-1:5	SEQ5114	6.E-04	1.4	DLB	SLC25A25-AS1:8	SEQ5861	4.E-05	1.8
DLB	lnc-LGALSL-2:9	SEQ4391	2.E-03	2.E-02	DLB	SLC2A1-AS1:4	SEQ3874	1.E-03	1.3
MCI	lnc-LHFPL3-4:1	SEQ5301	2.E-05	1.7	miAD	SLC2A1-AS1:4	SEQ3874	5.E-03	1.2
DLB	lnc-LHFPL3-4:1	SEQ5301	5.E-05	1.6	All AD	SLC2A1-AS1:4	SEQ3874	6.E-03	1.2
FTD	lnc-LHFPL3-4:1	SEQ5301	4.E-04	1.3	msAD	SLC2A1-AS1:4	SEQ3874	3.E-02	1.1
DLB	lnc-LHPP-6:5	SEQ5439	3.E-04	1.5	msAD	SLC2A1-AS1:5	SEQ3691	5.E-02	1.4
DLB	lnc-LHPP-6:6	SEQ3436	2.E-04	1.6	FTD	SLC8A1-AS1:30	SEQ4131	6.E-05	0.5
All AD	lnc-LHPP-8:1	SEQ3637	3.E-02	0.8	miAD	SLC8A1-AS1:30	SEQ4131	1.E-02	0.6
msAD	lnc-LHPP-8:1	SEQ3637	5.E-02	0.8	All AD	SLC8A1-AS1:30	SEQ4131	3.E-02	0.6
All AD	lnc-LIN7A-3:1	SEQ3437	4.E-02	0.7	FTD	SMARCA5-AS1:2	SEQ5505	7.E-06	2.6
DLB	lnc-LINC00094-2:1	SEQ5204	8.E-05	1.9	MCI	SMARCA5-AS1:2	SEQ5505	2.E-05	2.6
MCI	lnc-LINC00094-2:1	SEQ5204	5.E-04	1.7	DLB	SMARCA5-AS1:2	SEQ5505	9.E-05	2.2
DLB	lnc-LINC00672-1:1	SEQ5376	3.E-04	1.5	msAD	SMARCA5-AS1:2	SEQ5505	2.E-04	1.7
DLB	lnc-LINC00694-4:1	SEQ5521	2.E-04	1.4	All AD	SMARCA5-AS1:2	SEQ5505	9.E-04	1.5

FTD	lnc-LINC02210-CRHR1-2:4	SEQ5641	1.E-04	0.5	DLB	SMCR5:1	SEQ3037	2.E-04	2.0
FTD	lnc-LINC02210-CRHR1-3:1	SEQ5938	1.E-05	0.4	DLB	SNAI3-AS1:12	SEQ5634	9.E-05	1.9
All AD	lnc-LINS1-3:1	SEQ5047	2.E-02	1.2	MCI	SNAI3-AS1:12	SEQ5634	2.E-04	1.9
FTD	lnc-LIPC-2:1	SEQ4921	5.E-05	0.4	FTD	SND1-IT1:4	SEQ3933	1.E-04	0.5
MCI	lnc-LIPC-2:1	SEQ4921	8.E-04	0.7	miAD	SND1-IT1:4	SEQ3933	3.E-03	0.6
All AD	lnc-LIPC-2:1	SEQ4921	2.E-02	0.7	All AD	SND1-IT1:4	SEQ3933	4.E-03	0.6
FTD	lnc-LIPC-3:1	SEQ4070	3.E-05	0.4	msAD	SND1-IT1:4	SEQ3933	3.E-02	0.7
MCI	lnc-LIPC-3:1	SEQ4070	6.E-04	0.6	DLB	SND1-IT1:5	SEQ5050	7.E-04	1.9
miAD	lnc-LIPC-3:1	SEQ4070	1.E-02	0.6	MCI	SNHG1:1	SEQ5463	3.E-04	2.7
All AD	lnc-LIPC-3:1	SEQ4070	3.E-02	0.7	FTD	SNHG1:54	SEQ5502	6.E-10	9.7
FTD	lnc-LIPC-4:1	SEQ5054	3.E-06	0.4	MCI	SNHG1:54	SEQ5502	2.E-04	2.6
MCI	lnc-LIPC-4:1	SEQ5054	9.E-05	0.5	DLB	SNHG12:16	SEQ4759	1.E-03	1.5
All AD	lnc-LIPC-4:1	SEQ5054	2.E-02	0.6	MCI	SNHG12:17	SEQ5303	4.E-05	1.8
FTD	lnc-LIPC-5:1	SEQ4920	3.E-05	0.4	DLB	SNHG12:17	SEQ5303	4.E-04	1.8
MCI	lnc-LIPC-5:1	SEQ4920	8.E-04	0.5	FTD	SNHG12:17	SEQ5303	4.E-04	1.7
All AD	lnc-LIPC-5:1	SEQ4920	4.E-02	0.8	All AD	SNHG12:17	SEQ5303	4.E-02	1.2
FTD	lnc-LIPC-6:1	SEQ3678	1.E-07	0.3	All AD	SNHG16:31	SEQ5992	4.E-02	0.8
MCI	lnc-LIPC-6:1	SEQ3678	1.E-05	0.3	DLB	SNHG16:4	SEQ4727	1.E-03	2.3
DLB	lnc-LIPC-6:1	SEQ3678	6.E-04	0.3	All AD	SNHG16:42	SEQ5994	4.E-02	0.8
miAD	lnc-LIPC-6:1	SEQ3678	1.E-02	0.6	DLB	SNHG17:23	SEQ5489	2.E-04	1.6
All AD	lnc-LIPC-6:1	SEQ3678	1.E-02	0.6	DLB	SNHG21:11	SEQ4768	1.E-03	1.5
msAD	lnc-LIPC-6:1	SEQ3678	5.E-02	0.6	MCI	SNHG22:3	SEQ5497	1.E-04	1.8
FTD	lnc-LIX1-1:1	SEQ5413	3.E-04	0.6	DLB	SNHG22:3	SEQ5497	2.E-04	1.9
MCI	lnc-LKAAEAR1-2:1	SEQ5026	5.E-04	1.5	DLB	SNHG25:1	SEQ4827	9.E-04	1.2
DLB	lnc-LKAAEAR1-2:1	SEQ5026	7.E-04	1.5	MCI	SNHG5:12	SEQ5542	1.E-04	0.3
miAD	lnc-LMLN-4:1	SEQ3734	7.E-03	0.5	FTD	SNHG5:12	SEQ5542	2.E-04	0.3
All AD	lnc-LMLN-4:1	SEQ3734	9.E-03	0.6	All AD	SNHG6:12	SEQ5995	5.E-02	0.8
msAD	lnc-LMLN-4:1	SEQ3734	4.E-02	0.7	DLB	SNHG7:12	SEQ4121	1.E-05	1.8
FTD	lnc-LONP2-8:1	SEQ4310	8.E-06	0.5	MCI	SNHG7:12	SEQ4121	2.E-04	1.6
miAD	lnc-LONP2-8:1	SEQ4310	7.E-03	0.6	FTD	SNHG7:12	SEQ4121	7.E-04	1.4
All AD	lnc-LONP2-8:1	SEQ4310	1.E-02	0.7	All AD	SNHG7:12	SEQ4121	8.E-03	1.2
DLB	lnc-LPAR6-4:1	SEQ5491	2.E-04	1.6	msAD	SNHG7:12	SEQ4121	1.E-02	1.3
FTD	lnc-LPCAT3-1:1	SEQ2652	5.E-06	1.8	FTD	SNRK-AS1:1	SEQ5965	1.E-08	0.5
MCI	lnc-LPCAT3-1:1	SEQ2652	5.E-04	1.9	MCI	SNRK-AS1:1	SEQ5965	4.E-06	0.5
DLB	lnc-LPCAT3-1:1	SEQ2652	2.E-03	1.8	FTD	SNRK-AS1:4	SEQ4006	4.E-07	2.3
All AD	lnc-LPCAT3-1:1	SEQ2652	2.E-02	1.2	MCI	SNRK-AS1:4	SEQ4006	1.E-06	2.7
FTD	lnc-LPIN1-5:1	SEQ5066	1.E-05	1.6	DLB	SNRK-AS1:4	SEQ4006	2.E-05	2.3
MCI	lnc-LPIN1-5:1	SEQ5066	2.E-04	1.5	All AD	SNRK-AS1:4	SEQ4006	7.E-03	1.3
All AD	lnc-LPIN1-5:1	SEQ5066	4.E-02	1.2	miAD	SNRK-AS1:4	SEQ4006	9.E-03	1.3
MCI	lnc-LPIN1-7:2	SEQ5581	4.E-05	2.2	msAD	SNRK-AS1:4	SEQ4006	2.E-02	1.3
DLB	lnc-LPIN1-7:2	SEQ5581	2.E-04	2.0	FTD	SOS1-IT1:2	SEQ4034	2.E-07	0.4
DLB	lnc-LPIN3-1:1	SEQ3438	3.E-04	1.5	MCI	SOS1-IT1:2	SEQ4034	8.E-05	0.5
FTD	lnc-LPP-2:1	SEQ5070	7.E-06	0.7	All AD	SOS1-IT1:2	SEQ4034	1.E-02	0.7

All AD	lnc-LPP-2:1	SEQ5070	4.E-02	0.8	msAD	SOS1-IT1:2	SEQ4034	2.E-02	0.7
FTD	lnc-LPP-2:2	SEQ5072	3.E-05	0.7	DLB	SPAG5-AS1:8	SEQ5843	4.E-05	1.4
All AD	lnc-LPP-2:2	SEQ5072	5.E-02	0.8	DLB	SPAG5-AS1:9	SEQ4632	1.E-03	1.5
miAD	lnc-LRFN5-10:1	SEQ4213	1.E-02	1.2	DLB	SSBP3-AS1:2	SEQ5270	5.E-04	1.6
All AD	lnc-LRFN5-10:1	SEQ4213	1.E-02	1.2	MCI	STARD7-AS1:5	SEQ4797	1.E-06	2.2
DLB	lnc-LRP1-1:1	SEQ4508	2.E-03	1.5	DLB	STARD7-AS1:5	SEQ4797	6.E-06	2.2
DLB	lnc-LRP5L-14:1	SEQ5248	5.E-04	1.5	FTD	STARD7-AS1:5	SEQ4797	3.E-05	2.0
miAD	lnc-LRRC10-1:1	SEQ3290	2.E-03	0.7	All AD	STARD7-AS1:5	SEQ4797	1.E-04	1.5
All AD	lnc-LRRC10-1:1	SEQ3290	5.E-03	0.7	miAD	STARD7-AS1:5	SEQ4797	1.E-04	1.5
msAD	lnc-LRRC10-1:1	SEQ3290	4.E-02	0.7	msAD	STARD7-AS1:5	SEQ4797	1.E-03	1.4
FTD	lnc-LRRC10-1:2	SEQ3441	3.E-04	0.5	MCI	STXBP5-AS1:16	SEQ5579	2.E-04	1.9
miAD	lnc-LRRC10-1:2	SEQ3441	1.E-02	0.7	FTD	SVIL-AS1:37	SEQ5868	4.E-05	0.6
All AD	lnc-LRRC10-1:2	SEQ3441	1.E-02	0.7	DLB	TBC1D22A-AS1:1	SEQ4592	2.E-03	1.7
msAD	lnc-LRRC10-1:2	SEQ3441	4.E-02	0.7	DLB	TBX2-AS1:17	SEQ4493	2.E-03	1.4
FTD	lnc-LRRC31-2:1	SEQ5058	7.E-04	0.5	MCI	TCONS_00000224	SEQ1048	2.E-05	0.5
FTD	lnc-LRRC37A3-5:15	SEQ5603	2.E-04	0.6	DLB	TCONS_00000224	SEQ1048	9.E-04	0.6
DLB	lnc-LRRC3C-2:1	SEQ5388	1.E-04	1.8	FTD	TCONS_00000416	SEQ1091	6.E-04	0.6
MCI	lnc-LRRC3C-2:1	SEQ5388	3.E-04	1.7	FTD	TCONS_00000556	SEQ1026	1.E-04	0.6
FTD	lnc-LRRC57-1:1	SEQ2537	5.E-07	0.5	All AD	TCONS_00000556	SEQ1026	3.E-02	0.8
MCI	lnc-LRRC57-1:1	SEQ2537	2.E-04	0.6	All AD	TCONS_00000655	SEQ1050	4.E-02	0.7
All AD	lnc-LRRC57-1:1	SEQ2537	5.E-02	0.7	miAD	TCONS_00000773	SEQ1086	1.E-02	0.6
FTD	lnc-LRRC72-10:2	SEQ4806	1.E-03	0.6	All AD	TCONS_00000773	SEQ1086	3.E-02	0.7
All AD	lnc-LRRC72-10:2	SEQ4806	4.E-02	0.7	FTD	TCONS_00005037	SEQ1136	1.E-04	0.6
miAD	lnc-LRRC72-10:4	SEQ4336	5.E-03	0.5	msAD	TCONS_00005060	SEQ1140	5.E-02	1.2
FTD	lnc-LRRC7-5:3	SEQ4376	4.E-07	0.4	FTD	TCONS_00005264	SEQ1123	3.E-08	0.5
MCI	lnc-LRRC7-5:3	SEQ4376	1.E-03	0.6	FTD	TCONS_00008856	SEQ1166	3.E-04	0.5
miAD	lnc-LRRC7-5:3	SEQ4376	3.E-03	0.6	miAD	TCONS_00008879	SEQ1170	1.E-02	0.5
All AD	lnc-LRRC7-5:3	SEQ4376	8.E-03	0.6	All AD	TCONS_00008879	SEQ1170	2.E-02	0.5
DLB	lnc-LRRC75A-2:1	SEQ5568	2.E-04	1.6	All AD	TCONS_00008889	SEQ1172	2.E-02	0.6
MCI	lnc-LRRK1-3:4	SEQ0242	9.E-05	2.0	msAD	TCONS_00008889	SEQ1172	3.E-02	0.7
DLB	lnc-LRRK1-3:4	SEQ0242	8.E-04	1.7	DLB	TCONS_00011972	SEQ1217	5.E-04	1.3
msAD	lnc-LRRK1-3:4	SEQ0242	2.E-02	1.3	DLB	TCONS_00011994	SEQ1222	6.E-06	1.7
All AD	lnc-LRRK1-3:4	SEQ0242	4.E-02	1.2	FTD	TCONS_00012062	SEQ1202	4.E-05	0.6
DLB	lnc-LSM11-1:1	SEQ5011	7.E-04	1.3	MCI	TCONS_00012062	SEQ1202	2.E-03	0.6
FTD	lnc-LSM14A-2:5	SEQ5293	4.E-04	0.6	FTD	TCONS_00012063	SEQ1203	2.E-07	0.3
DLB	lnc-LTBP2-2:1	SEQ5625	2.E-04	1.7	MCI	TCONS_00012063	SEQ1203	2.E-04	0.4
DLB	lnc-LTBP3-2:14	SEQ4404	2.E-03	1.3	All AD	TCONS_00012063	SEQ1203	5.E-02	0.6

MCI	lnc-LTBP3-2:5	SEQ4364	6.E-06	0.2	FTD	TCONS_00014141	SEQ1224	5.E-08	0.4
FTD	lnc-LTBP3-2:5	SEQ4364	6.E-06	0.2	MCI	TCONS_00014141	SEQ1224	2.E-04	0.5
miAD	lnc-LTBP3-2:5	SEQ4364	4.E-03	0.3	miAD	TCONS_00014141	SEQ1224	3.E-03	0.5
All AD	lnc-LTBP3-2:5	SEQ4364	2.E-02	0.4	FTD	TCONS_00014165	SEQ1227	3.E-04	0.7
MCI	lnc-LTC4S-1:1	SEQ2941	2.E-04	1.6	MCI	TCONS_00014211	SEQ1239	1.E-03	1.8
FTD	lnc-LUC7L3-6:1	SEQ4810	1.E-03	0.7	DLB	TCONS_00014211	SEQ1239	2.E-03	1.8
FTD	lnc-LXN-1:6	SEQ5400	3.E-04	0.7	All AD	TCONS_00014453	SEQ1256	4.E-02	0.7
All AD	lnc-LY86-4:8	SEQ5094	4.E-02	0.7	FTD	TCONS_00017372	SEQ1273	6.E-09	4.4
All AD	lnc-LYN-2:1	SEQ5095	4.E-02	0.8	MCI	TCONS_00017372	SEQ1273	4.E-05	4.2
DLB	lnc-LYPD6-2:1	SEQ4429	8.E-05	1.8	FTD	TCONS_00017375	SEQ1276	2.E-04	3.E-08
MCI	lnc-LYPD6-2:1	SEQ4429	2.E-03	1.5	DLB	TCONS_00017375	SEQ1276	2.E-04	2.E-08
FTD	lnc-LYPD8-4:1	SEQ4365	1.E-05	0.4	MCI	TCONS_00017375	SEQ1276	7.E-04	2.E-08
miAD	lnc-LYPD8-4:1	SEQ4365	4.E-03	0.6	DLB	TCONS_00017376	SEQ1277	2.E-04	0.9
All AD	lnc-LYPD8-4:1	SEQ4365	9.E-03	0.6	MCI	TCONS_00017376	SEQ1277	5.E-04	0.9
MCI	lnc-LYZL2-5:1	SEQ4185	2.E-03	0.7	msAD	TCONS_00017376	SEQ1277	4.E-02	0.9
miAD	lnc-LYZL2-5:1	SEQ4185	1.E-02	0.7	All AD	TCONS_00017376	SEQ1277	5.E-02	0.9
All AD	lnc-LYZL2-5:1	SEQ4185	2.E-02	0.6	FTD	TCONS_00019772	SEQ1301	4.E-04	0.6
DLB	lnc-M1AP-1:1	SEQ4974	8.E-04	1.7	DLB	TCONS_00019840	SEQ1292	2.E-03	1.3
DLB	lnc-M1AP-6:2	SEQ5390	8.E-05	1.8	FTD	TCONS_00019918	SEQ1308	3.E-05	0.6
MCI	lnc-M1AP-6:2	SEQ5390	3.E-04	1.8	DLB	TCONS_00021481	SEQ1342	4.E-04	1.7
DLB	lnc-M6PR-4:1	SEQ3969	2.E-04	1.6	MCI	TCONS_00021481	SEQ1342	5.E-04	1.6
MCI	lnc-M6PR-4:1	SEQ3969	2.E-04	1.4	MCI	TCONS_00023115	SEQ1352	3.E-04	0.4
All AD	lnc-M6PR-4:1	SEQ3969	1.E-02	1.2	FTD	TCONS_00023190	SEQ1369	5.E-04	0.6
msAD	lnc-M6PR-4:1	SEQ3969	2.E-02	1.2	miAD	TCONS_00023190	SEQ1369	3.E-03	0.6
MCI	lnc-MAD2L2-4:1	SEQ5633	2.E-04	1.9	All AD	TCONS_00023190	SEQ1369	9.E-03	0.7
MCI	lnc-MAFF-10:1	SEQ4924	8.E-04	1.3	FTD	TCONS_00023372	SEQ1374	9.E-04	0.6
DLB	lnc-MAFF-2:1	SEQ3013	9.E-04	1.6	DLB	TCONS_00026558	SEQ1414	9.E-04	1.4
MCI	lnc-MAFF-2:1	SEQ3013	2.E-03	1.7	DLB	TCONS_00033649	SEQ1546	1.E-05	2.3
MCI	lnc-MAFK-4:3	SEQ3644	2.E-06	1.7	FTD	TCONS_00033649	SEQ1546	4.E-04	1.6
DLB	lnc-MAFK-4:3	SEQ3644	6.E-06	1.7	DLB	TCONS_00035022	SEQ1567	2.E-03	16.3
FTD	lnc-MAFK-4:3	SEQ3644	3.E-04	1.3	DLB	TCONS_00035023	SEQ1568	2.E-03	16.3
msAD	lnc-MAFK-4:3	SEQ3644	5.E-02	1.1	MCI	TCONS_00035024	SEQ1571	4.E-07	2.5
All AD	lnc-MAGEB1-2:1	SEQ3902	1.E-02	0.7	DLB	TCONS_00035024	SEQ1571	3.E-06	2.4

msAD	lnc-MAGEB1-2:1	SEQ3902	3.E-02	0.7	FTD	TCONS_00035024	SEQ1571	5.E-05	1.9
FTD	lnc-MAGEE2-2:1	SEQ3291	4.E-07	0.4	All AD	TCONS_00035024	SEQ1571	4.E-02	1.2
MCI	lnc-MAGEE2-2:1	SEQ3291	2.E-03	0.5	All AD	TCONS_00035025	SEQ1572	3.E-02	1.2
FTD	lnc-MALRD1-11:1	SEQ3815	4.E-06	0.6	msAD	TCONS_00035027	SEQ1575	2.E-02	1.4
All AD	lnc-MALRD1-11:1	SEQ3815	1.E-02	0.7	FTD	TCONS_00035036	SEQ1586	7.E-04	0.6
miAD	lnc-MALRD1-11:1	SEQ3815	1.E-02	0.7	MCI	TCONS_00035091	SEQ1565	2.E-06	1.8
msAD	lnc-MALRD1-11:1	SEQ3815	4.E-02	0.8	DLB	TCONS_00035091	SEQ1565	6.E-05	1.7
msAD	lnc-MAN2B1-1:1	SEQ3906	3.E-02	1.3	FTD	TCONS_00035091	SEQ1565	2.E-04	1.5
All AD	lnc-MAN2B1-1:1	SEQ3906	4.E-02	1.3	DLB	TCONS_00035092	SEQ1569	7.E-06	2.6
All AD	lnc-MAN2C1-2:3	SEQ5106	3.E-02	0.8	MCI	TCONS_00035092	SEQ1569	9.E-06	2.6
FTD	lnc-MANBA-2:9	SEQ3443	3.E-10	0.4	FTD	TCONS_00035092	SEQ1569	1.E-05	2.3
MCI	lnc-MANBA-2:9	SEQ3443	8.E-05	0.6	All AD	TCONS_00035092	SEQ1569	1.E-02	1.4
miAD	lnc-MANBA-2:9	SEQ3443	6.E-03	0.6	miAD	TCONS_00035092	SEQ1569	1.E-02	1.5
All AD	lnc-MANBA-2:9	SEQ3443	7.E-03	0.6	msAD	TCONS_00035092	SEQ1569	3.E-02	1.4
msAD	lnc-MANBA-2:9	SEQ3443	4.E-02	0.7	MCI	TCONS_00035093	SEQ1570	6.E-10	1.7
FTD	lnc-MANSC4-2:2	SEQ5685	1.E-04	0.6	FTD	TCONS_00035093	SEQ1570	6.E-06	1.4
MCI	lnc-MAP1LC3B-1:10	SEQ5574	2.E-04	1.6	DLB	TCONS_00035093	SEQ1570	3.E-05	1.5
DLB	lnc-MAP1LC3B-1:9	SEQ4514	2.E-03	1.5	miAD	TCONS_00035093	SEQ1570	1.E-02	1.1
All AD	lnc-MAP1LC3B2-14:13	SEQ5112	4.E-02	0.7	All AD	TCONS_00035093	SEQ1570	4.E-02	1.1
All AD	lnc-MAP1LC3B2-14:16	SEQ4227	3.E-03	0.6	MCI	TCONS_00035094	SEQ1573	2.E-07	2.6
miAD	lnc-MAP1LC3B2-14:16	SEQ4227	6.E-03	0.5	FTD	TCONS_00035094	SEQ1573	5.E-07	2.4
msAD	lnc-MAP1LC3B2-14:16	SEQ4227	1.E-02	0.6	DLB	TCONS_00035094	SEQ1573	9.E-06	2.3
DLB	lnc-MAP1LC3B2-15:1	SEQ5337	4.E-04	1.8	All AD	TCONS_00035094	SEQ1573	1.E-02	1.3
DLB	lnc-MAP2K2-2:3	SEQ5736	9.E-05	1.7	msAD	TCONS_00035094	SEQ1573	4.E-02	1.3
MCI	lnc-MAP3K3-2:1	SEQ3807	6.E-07	2.5	FTD	TCONS_00037031	SEQ1676	3.E-04	0.5
DLB	lnc-MAP3K3-2:1	SEQ3807	7.E-07	2.4	DLB	TCONS_00037110	SEQ1641	7.E-06	1.6
FTD	lnc-MAP3K3-2:1	SEQ3807	2.E-06	2.3	DLB	TCONS_00037198	SEQ1659	6.E-05	2.6
All AD	lnc-MAP3K3-2:1	SEQ3807	1.E-02	1.3	msAD	TCONS_00037198	SEQ1659	4.E-02	1.4
msAD	lnc-MAP3K3-2:1	SEQ3807	4.E-02	1.3	MCI	TCONS_00037216	SEQ1662	6.E-05	0.4
DLB	lnc-MAP3K3-2:5	SEQ5175	5.E-04	1.4	All AD	TCONS_00040803	SEQ1719	4.E-02	0.7
DLB	lnc-MAP3K6-1:1	SEQ4742	3.E-04	1.5	DLB	TCONS_00040994	SEQ1713	2.E-05	1.8
MCI	lnc-MAP3K6-1:1	SEQ4742	1.E-03	1.4	All AD	TCONS_00040994	SEQ1713	4.E-02	1.1
All AD	lnc-MAP3K7-3:3	SEQ4255	8.E-03	1.6	msAD	TCONS_00040994	SEQ1713	5.E-02	1.1

msAD	lnc-MAP3K7-3:3	SEQ4255	9.E-03	1.7	DLB	TCONS_00044932	SEQ1735	1.E-06	2.0
FTD	lnc-MAP3K8-20:1	SEQ5064	7.E-04	0.7	FTD	TCONS_00045041	SEQ1769	5.E-05	0.5
FTD	lnc-MAP3K9-10:2	SEQ5122	7.E-06	0.6	MCI	TCONS_00045041	SEQ1769	9.E-04	0.6
All AD	lnc-MAP3K9-10:2	SEQ5122	5.E-02	0.8	FTD	TCONS_00045125	SEQ1790	2.E-07	0.6
FTD	lnc-MAP3K9-13:1	SEQ4811	1.E-03	0.7	MCI	TCONS_00045125	SEQ1790	1.E-04	0.6
All AD	lnc-MAP3K9-13:1	SEQ4811	3.E-02	0.8	All AD	TCONS_00045125	SEQ1790	3.E-02	0.7
All AD	lnc-MAP6-4:10	SEQ4008	8.E-03	0.7	msAD	TCONS_00045125	SEQ1790	4.E-02	0.7
miAD	lnc-MAP6-4:10	SEQ4008	1.E-02	0.7	All AD	TCONS_00050017	SEQ1804	3.E-02	1.2
msAD	lnc-MAP6-4:10	SEQ4008	2.E-02	0.7	FTD	TCONS_00050224	SEQ1854	8.E-05	0.6
miAD	lnc-MAPK13-1:1	SEQ4156	1.E-02	0.7	miAD	TCONS_00050224	SEQ1854	9.E-03	0.7
All AD	lnc-MAPK13-1:1	SEQ4156	2.E-02	0.8	All AD	TCONS_00050224	SEQ1854	1.E-02	0.7
DLB	lnc-MAPK6-8:3	SEQ4947	8.E-04	1.5	MCI	TCONS_00055681	SEQ1887	3.E-06	0.5
All AD	lnc-MARC2-2:1	SEQ3917	8.E-03	0.9	FTD	TCONS_00059297	SEQ1957	1.E-03	0.6
miAD	lnc-MARC2-2:1	SEQ3917	9.E-03	0.9	MCI	TCONS_00059378	SEQ1928	4.E-05	1.5
msAD	lnc-MARC2-2:1	SEQ3917	3.E-02	0.9	DLB	TCONS_00059378	SEQ1928	2.E-03	1.5
DLB	lnc-MARCH10-8:2	SEQ5669	1.E-04	1.7	FTD	TCONS_00059405	SEQ1944	2.E-06	0.5
FTD	lnc-MARCH7-1:6	SEQ4074	5.E-05	0.7	FTD	TCONS_00059427	SEQ1949	5.E-05	0.5
miAD	lnc-MARCH7-1:6	SEQ4074	1.E-02	0.7	DLB	TCONS_00059492	SEQ1962	3.E-04	1.6
All AD	lnc-MARCH7-1:6	SEQ4074	2.E-02	0.8	MCI	TCONS_00059492	SEQ1962	2.E-03	1.5
FTD	lnc-MARCH7-3:1	SEQ3444	2.E-07	0.5	MCI	TCONS_00062313	SEQ1998	2.E-04	0.5
MCI	lnc-MARCH7-3:1	SEQ3444	2.E-04	0.6	miAD	TCONS_00062327	SEQ2005	7.E-03	0.6
All AD	lnc-MARCH7-3:1	SEQ3444	3.E-02	0.7	All AD	TCONS_00062327	SEQ2005	2.E-02	0.7
FTD	lnc-MARCH7-4:1	SEQ3895	6.E-05	0.6	All AD	TCONS_00062345	SEQ2020	2.E-02	0.7
miAD	lnc-MARCH7-4:1	SEQ3895	7.E-03	0.7	MCI	TCONS_00062359	SEQ2028	3.E-05	1.9
All AD	lnc-MARCH7-4:1	SEQ3895	7.E-03	0.7	miAD	TCONS_00062359	SEQ2028	8.E-03	1.4
msAD	lnc-MARCH7-4:1	SEQ3895	3.E-02	0.7	All AD	TCONS_00062359	SEQ2028	8.E-03	1.3
MCI	lnc-MASTL-6:1	SEQ2430	2.E-04	0.6	msAD	TCONS_00062359	SEQ2028	3.E-02	1.3
FTD	lnc-MASTL-7:1	SEQ4246	4.E-06	0.6	msAD	TCONS_00062426	SEQ2041	2.E-03	0.5
miAD	lnc-MASTL-7:1	SEQ4246	9.E-03	0.7	All AD	TCONS_00062426	SEQ2041	4.E-03	0.6
All AD	lnc-MASTL-7:1	SEQ4246	2.E-02	0.7	FTD	TCONS_00062427	SEQ2042	3.E-07	0.2
FTD	lnc-MAVS-3:1	SEQ2534	3.E-08	0.5	DLB	TCONS_00062427	SEQ2042	1.E-05	0.2
MCI	lnc-MAVS-3:1	SEQ2534	7.E-06	0.5	FTD	TCONS_00062454	SEQ2047	1.E-04	0.6
All AD	lnc-MAVS-3:1	SEQ2534	4.E-03	0.7	All AD	TCONS_00062454	SEQ2047	5.E-02	0.7

msAD	lnc-MAVS-3:1	SEQ2534	9.E-03	0.7	DLB	TCONS_00062559	SEQ1995	1.E-03	1.4
miAD	lnc-MAVS-3:1	SEQ2534	1.E-02	0.7	DLB	TCONS_00062700	SEQ2045	4.E-04	1.3
DLB	lnc-MB-9:1	SEQ5524	2.E-04	1.5	MCI	TCONS_00066312	SEQ2053	2.E-03	0.8
msAD	lnc-MBD3L2B-3:1	SEQ4042	2.E-02	2.1	DLB	TCONS_00066327	SEQ2060	1.E-03	1.4
All AD	lnc-MBD3L2B-3:1	SEQ4042	4.E-02	1.8	FTD	TCONS_00066357	SEQ2067	1.E-05	0.5
FTD	lnc-MBNL1-3:1	SEQ5764	8.E-05	0.6	FTD	TCONS_00066544	SEQ2098	1.E-03	0.7
FTD	lnc-MBOAT1-11:1	SEQ5280	7.E-05	1.8	All AD	TCONS_00066544	SEQ2098	3.E-02	0.8
MCI	lnc-MBOAT1-11:1	SEQ5280	5.E-04	1.8	FTD	TET2-AS1:5	SEQ4311	2.E-04	0.6
All AD	lnc-MBOAT2-2:1	SEQ4338	2.E-03	0.7	miAD	TET2-AS1:5	SEQ4311	7.E-03	0.7
miAD	lnc-MBOAT2-2:1	SEQ4338	3.E-03	0.6	All AD	TET2-AS1:5	SEQ4311	2.E-02	0.7
msAD	lnc-MBOAT2-2:1	SEQ4338	5.E-03	0.7	miAD	THAP9-AS1:27	SEQ2178	1.E-02	0.6
FTD	lnc-MCF2L-2:1	SEQ5231	5.E-04	0.7	All AD	THAP9-AS1:27	SEQ2178	2.E-02	0.6
DLB	lnc-MCHR1-1:1	SEQ5182	9.E-05	1.5	msAD	THRIL:2	SEQ3970	2.E-02	1.4
MCI	lnc-MCHR1-1:1	SEQ5182	5.E-04	1.5	All AD	THRIL:2	SEQ3970	3.E-02	1.3
All AD	lnc-MCL1-1:1	SEQ3947	1.E-02	0.8	FTD	THUMPD3-AS1:16	SEQ5771	7.E-05	0.4
msAD	lnc-MCL1-1:1	SEQ3947	3.E-02	0.8	DLB	THUMPD3-AS1:51	SEQ5758	8.E-05	2.2
All AD	lnc-MCL1-2:1	SEQ5138	3.E-02	0.8	MCI	TMEM161B-AS1:51	SEQ4098	6.E-06	2.5
All AD	lnc-MCL1-3:1	SEQ5139	4.E-02	0.7	FTD	TMEM161B-AS1:51	SEQ4098	6.E-06	2.6
FTD	lnc-MCTP2-1:1	SEQ5748	9.E-05	0.7	DLB	TMEM161B-AS1:51	SEQ4098	2.E-05	2.5
MCI	lnc-MCTP2-7:4	SEQ3446	3.E-04	1.7	miAD	TMEM161B-AS1:51	SEQ4098	2.E-03	1.6
DLB	lnc-MCTP2-7:4	SEQ3446	5.E-04	1.8	All AD	TMEM161B-AS1:51	SEQ4098	2.E-03	1.5
msAD	lnc-MCTP2-7:4	SEQ3446	2.E-02	1.3	msAD	TMEM161B-AS1:51	SEQ4098	1.E-02	1.4
All AD	lnc-MCTP2-7:4	SEQ3446	2.E-02	1.3	FTD	TMEM161B-AS1:52	SEQ4308	1.E-09	0.3
DLB	lnc-MCTS1-2:1	SEQ2602	9.E-04	1.3	MCI	TMEM161B-AS1:52	SEQ4308	4.E-04	0.5
All AD	lnc-MDM1-5:1	SEQ3748	1.E-02	0.6	DLB	TMEM161B-AS1:52	SEQ4308	2.E-03	0.5
msAD	lnc-MDM1-5:1	SEQ3748	4.E-02	0.6	miAD	TMEM161B-AS1:52	SEQ4308	7.E-03	0.5
FTD	lnc-MDM4-8:1	SEQ0816	2.E-04	0.7	All AD	TMEM161B-AS1:52	SEQ4308	2.E-02	0.6
All AD	lnc-MED1-4:1	SEQ5145	5.E-02	1.1	MCI	TMEM202-AS1:3	SEQ4015	1.E-05	1.7
DLB	lnc-MED26-1:2	SEQ4633	5.E-05	1.8	DLB	TMEM202-AS1:3	SEQ4015	2.E-05	1.7
MCI	lnc-MED26-1:2	SEQ4633	1.E-03	1.5	FTD	TMEM202-AS1:3	SEQ4015	9.E-05	1.5
DLB	lnc-MED26-1:3	SEQ4970	8.E-04	1.6	All AD	TMEM202-AS1:3	SEQ4015	7.E-03	1.3
DLB	lnc-MED9-1:2	SEQ2833	2.E-04	1.9	miAD	TMEM202-AS1:3	SEQ4015	1.E-02	1.3
FTD	lnc-MEMO1-4:1	SEQ4312	3.E-08	0.5	msAD	TMEM202-AS1:3	SEQ4015	2.E-02	1.3
MCI	lnc-MEMO1-4:1	SEQ4312	2.E-04	0.6	DLB	TMEM9B-AS1:10	SEQ4722	4.E-05	2.2
miAD	lnc-MEMO1-4:1	SEQ4312	7.E-03	0.7	MCI	TMEM9B-AS1:10	SEQ4722	1.E-03	1.9
All AD	lnc-MEMO1-4:1	SEQ4312	1.E-02	0.7	DLB	TMEM9B-AS1:7	SEQ5539	2.E-04	2.0
DLB	lnc-MEP1B-2:1	SEQ3447	1.E-04	2.1	All AD	TMLHE-AS1:2	SEQ6006	3.E-02	0.8

MCI	lnc-MEP1B-2:1	SEQ3447	5.E-04	1.8	DLB	TMPO-AS1:5	SEQ4339	3.E-06	1.8
DLB	lnc-MEPCE-1:2	SEQ5812	5.E-05	1.4	MCI	TMPO-AS1:5	SEQ4339	6.E-06	1.6
DLB	lnc-MEPE-1:1	SEQ4345	9.E-05	1.5	FTD	TMPO-AS1:5	SEQ4339	7.E-06	1.6
All AD	lnc-MEPE-1:1	SEQ4345	2.E-03	1.3	All AD	TMPO-AS1:5	SEQ4339	1.E-03	1.3
MCI	lnc-MEPE-1:1	SEQ4345	2.E-03	1.3	miAD	TMPO-AS1:5	SEQ4339	2.E-03	1.3
msAD	lnc-MEPE-1:1	SEQ4345	3.E-03	1.3	msAD	TMPO-AS1:5	SEQ4339	5.E-03	1.3
miAD	lnc-MEPE-1:1	SEQ4345	5.E-03	1.3	DLB	TNK2-AS1:1	SEQ5728	9.E-05	1.5
FTD	lnc-MEST-6:1	SEQ0124	1.E-07	0.5	MCI	TNRC6C-AS1:1	SEQ3072	6.E-06	1.8
MCI	lnc-MEST-6:1	SEQ0124	2.E-04	0.6	DLB	TNRC6C-AS1:1	SEQ3072	8.E-05	1.8
miAD	lnc-MEST-6:1	SEQ0124	2.E-03	0.6	MCI	TNRC6C-AS1:2	SEQ3143	2.E-05	1.6
All AD	lnc-MEST-6:1	SEQ0124	3.E-03	0.7	DLB	TNRC6C-AS1:2	SEQ3143	5.E-04	1.6
msAD	lnc-MEST-6:1	SEQ0124	2.E-02	0.7	MCI	TNRC6C-AS1:5	SEQ3142	2.E-05	1.7
All AD	lnc-METTL14-3:13	SEQ5152	3.E-02	0.8	DLB	TNRC6C-AS1:5	SEQ3142	2.E-04	1.6
DLB	lnc-METTL26-1:2	SEQ5891	2.E-05	1.6	DLB	TPT1-AS1:54	SEQ2870	3.E-05	1.8
FTD	lnc-METTL2B-3:1	SEQ3710	9.E-04	1.7	All AD	TRAF3IP2-AS1:35	SEQ3829	4.E-02	1.3
MCI	lnc-METTL2B-3:1	SEQ3710	9.E-04	1.7	msAD	TRAF3IP2-AS1:35	SEQ3829	4.E-02	1.3
All AD	lnc-METTL2B-3:1	SEQ3710	4.E-02	1.3	FTD	TRG-AS1:1	SEQ3894	7.E-04	0.6
msAD	lnc-METTL2B-3:1	SEQ3710	5.E-02	1.3	All AD	TRG-AS1:1	SEQ3894	8.E-03	0.6
DLB	lnc-METTL6-5:1	SEQ5436	3.E-04	1.5	miAD	TRG-AS1:1	SEQ3894	9.E-03	0.6
All AD	lnc-METTL8-3:1	SEQ5157	3.E-02	1.2	msAD	TRG-AS1:1	SEQ3894	3.E-02	0.7
FTD	lnc-MFN1-1:2	SEQ4058	3.E-07	0.5	All AD	TRPM2-AS:7	SEQ6007	3.E-02	0.7
MCI	lnc-MFN1-1:2	SEQ4058	2.E-05	0.6	DLB	TSPOAP1-AS1:2	SEQ5852	3.E-05	23.4
miAD	lnc-MFN1-1:2	SEQ4058	2.E-04	0.6	MCI	TSPOAP1-AS1:2	SEQ5852	4.E-05	13.9
All AD	lnc-MFN1-1:2	SEQ4058	8.E-04	0.7	msAD	TSPOAP1-AS1:9	SEQ3939	3.E-02	1.1
msAD	lnc-MFN1-1:2	SEQ4058	2.E-02	0.7	All AD	TSPOAP1-AS1:9	SEQ3939	3.E-02	1.1
DLB	lnc-MFNG-1:2	SEQ5035	7.E-04	1.5	FTD	TTC21B-AS1:1	SEQ4910	9.E-04	0.7
DLB	lnc-MFSD11-1:2	SEQ5483	2.E-04	1.5	FTD	TTC21B-AS1:2	SEQ4735	8.E-05	0.6
DLB	lnc-MFSD13A-2:1	SEQ3448	2.E-04	1.3	All AD	TTC21B-AS1:2	SEQ4735	1.E-04	0.6
DLB	lnc-MFSD3-2:1	SEQ5576	2.E-04	1.7	miAD	TTC21B-AS1:2	SEQ4735	3.E-04	0.6
FTD	lnc-MFSD4A-1:1	SEQ2625	3.E-04	0.6	msAD	TTC21B-AS1:2	SEQ4735	6.E-04	0.6
FTD	lnc-MGARP-3:1	SEQ5165	2.E-04	0.7	MCI	TTC21B-AS1:2	SEQ4735	1.E-03	0.6
All AD	lnc-MGARP-3:1	SEQ5165	3.E-02	0.8	All AD	TTC21B-AS1:33	SEQ4252	3.E-03	0.7
msAD	lnc-MGAT1-4:4	SEQ3705	5.E-02	1.2	miAD	TTC21B-AS1:33	SEQ4252	6.E-03	0.6
DLB	lnc-MGAT5-3:1	SEQ5166	5.E-04	1.5	msAD	TTC21B-AS1:33	SEQ4252	9.E-03	0.7
All AD	lnc-MGAT5-3:1	SEQ5166	4.E-02	1.2	All AD	TTN-AS1:4	SEQ3692	4.E-02	1.4
DLB	lnc-MGLL-5:1	SEQ4517	2.E-05	1.6	msAD	TTN-AS1:4	SEQ3692	5.E-02	1.4
MCI	lnc-MGLL-5:1	SEQ4517	2.E-03	1.5	FTD	TTN-AS1:58	SEQ5991	1.E-06	0.5
MCI	lnc-MICA-9:2	SEQ4955	6.E-04	1.5	All AD	TTN-AS1:6	SEQ4123	1.E-02	0.6
DLB	lnc-MICA-9:2	SEQ4955	8.E-04	1.5	msAD	TTN-AS1:6	SEQ4123	1.E-02	0.6
DLB	lnc-MIEF2-2:1	SEQ5243	5.E-04	1.4	MCI	TUG1:33	SEQ4063	6.E-04	1.5
DLB	lnc-MIER3-2:1	SEQ4681	1.E-03	1.4	All AD	TUG1:33	SEQ4063	6.E-03	1.3
All AD	lnc-MIER3-2:1	SEQ4681	5.E-02	1.1	miAD	TUG1:33	SEQ4063	1.E-02	1.3
FTD	lnc-MIOS-5:2	SEQ3764	8.E-06	0.6	msAD	TUG1:33	SEQ4063	2.E-02	1.3

All AD	lnc-MIOS-5:2	SEQ3764	1.E-02	0.7	DLB	TUG1:39	SEQ5735	9.E-05	1.6
msAD	lnc-MIOS-5:2	SEQ3764	4.E-02	0.7	DLB	TUG1:40	SEQ5895	2.E-05	1.8
DLB	lnc-MIS12-4:1	SEQ4840	9.E-04	1.4	FTD	TUG1:45	SEQ5840	2.E-06	0.5
DLB	lnc-MISP3-1:7	SEQ4619	1.E-03	1.4	MCI	TUG1:45	SEQ5840	4.E-05	0.5
All AD	lnc-MIXL1-7:1	SEQ5170	5.E-02	0.8	FTD	TUG1:7	SEQ4607	1.E-06	0.3
All AD	lnc-MKI67-4:1	SEQ5171	5.E-02	0.8	MCI	TUG1:7	SEQ4607	1.E-06	0.3
All AD	lnc-MKI67-8:2	SEQ5172	4.E-02	0.7	DLB	TUG1:7	SEQ4607	1.E-03	0.4
MCI	lnc-MKLN1-1:12	SEQ5004	9.E-06	2.0	FTD	UBR5-AS1:10	SEQ5412	3.E-04	0.6
DLB	lnc-MKLN1-1:12	SEQ5004	2.E-05	1.9	MCI	UBR5-AS1:4	SEQ5078	9.E-05	0.3
FTD	lnc-MKLN1-1:12	SEQ5004	8.E-04	1.5	DLB	UBR5-AS1:4	SEQ5078	1.E-04	0.3
FTD	lnc-MLH1-1:1	SEQ2597	8.E-06	0.7	FTD	UBR5-AS1:4	SEQ5078	6.E-04	0.3
MCI	lnc-MLH1-1:1	SEQ2597	2.E-04	0.8	All AD	USP3-AS1:11	SEQ6010	3.E-02	0.8
All AD	lnc-MLH1-1:1	SEQ2597	7.E-03	0.8	FTD	USP3-AS1:9	SEQ4289	9.E-10	0.1
msAD	lnc-MLH1-1:1	SEQ2597	9.E-03	0.8	MCI	USP3-AS1:9	SEQ4289	4.E-04	0.2
MCI	lnc-MLLT1-2:1	SEQ3450	5.E-04	1.4	miAD	USP3-AS1:9	SEQ4289	7.E-03	0.2
DLB	lnc-MLLT1-2:1	SEQ3450	8.E-04	1.4	DLB	VAC14-AS1:3	SEQ5572	2.E-04	1.6
DLB	lnc-MLX-3:1	SEQ3451	4.E-05	1.6	DLB	VASH1-AS1:7	SEQ4786	1.E-03	1.7
MCI	lnc-MLX-3:1	SEQ3451	2.E-03	1.5	DLB	VIM-AS1:1	SEQ3832	5.E-05	1.5
All AD	lnc-MLX-3:1	SEQ3451	4.E-02	1.1	MCI	VIM-AS1:1	SEQ3832	8.E-05	1.5
MCI	lnc-MMP23B-1:1	SEQ4520	2.E-03	1.5	FTD	VIM-AS1:1	SEQ3832	2.E-04	1.3
DLB	lnc-MMP23B-4:1	SEQ4774	1.E-03	1.5	All AD	VIM-AS1:1	SEQ3832	2.E-02	1.2
FTD	lnc-MOCS2-9:1	SEQ5832	5.E-05	0.6	msAD	VIM-AS1:1	SEQ3832	3.E-02	1.2
FTD	lnc-MOV10-2:1	SEQ2519	4.E-04	0.5	FTD	VIM-AS1:11	SEQ3989	1.E-03	0.7
All AD	lnc-MOV10-2:1	SEQ2519	3.E-02	0.6	All AD	VIM-AS1:11	SEQ3989	1.E-02	0.8
MCI	lnc-MPC1-3:1	SEQ4672	1.E-03	0.8	msAD	VIM-AS1:11	SEQ3989	2.E-02	0.9
MCI	lnc-MPLKIP-1:1	SEQ5848	1.E-05	1.5	All AD	VIM-AS1:7	SEQ3576	7.E-03	1.2
DLB	lnc-MPLKIP-1:1	SEQ5848	4.E-05	1.5	miAD	VIM-AS1:7	SEQ3576	1.E-02	1.2
DLB	lnc-MRNIP-4:1	SEQ4511	2.E-05	1.8	msAD	VIM-AS1:7	SEQ3576	2.E-02	1.2
MCI	lnc-MRNIP-4:1	SEQ4511	2.E-03	1.5	DLB	WAC-AS1:1	SEQ5662	1.E-04	1.5
DLB	lnc-MRPL11-1:11	SEQ5481	2.E-04	1.4	DLB	WAC-AS1:11	SEQ4770	1.E-03	1.5
FTD	lnc-MRPL16-1:1	SEQ5189	4.E-04	0.7	FTD	WAC-AS1:14	SEQ4892	9.E-04	0.5
All AD	lnc-MRPL16-1:1	SEQ5189	5.E-02	0.8	DLB	ZBED5-AS1:1	SEQ4959	8.E-04	1.6
DLB	lnc-MRPL41-1:1	SEQ5528	2.E-04	1.6	MCI	ZBTB11-AS1:2	SEQ5006	1.E-04	2.4
MCI	lnc-MRPL43-2:3	SEQ3791	9.E-06	1.6	DLB	ZBTB11-AS1:2	SEQ5006	1.E-04	2.2
DLB	lnc-MRPL43-2:3	SEQ3791	2.E-05	1.7	FTD	ZBTB11-AS1:2	SEQ5006	8.E-04	2.1
FTD	lnc-MRPL43-2:3	SEQ3791	4.E-04	1.4	All AD	ZBTB11-AS1:2	SEQ5006	2.E-02	1.4
msAD	lnc-MRPL43-2:3	SEQ3791	4.E-02	1.2	FTD	ZFAS1:30	SEQ4911	9.E-04	0.7
FTD	lnc-MRPL44-6:2	SEQ5773	7.E-05	0.4	DLB	ZFHX2-AS1:10	SEQ4957	8.E-04	1.6
MCI	lnc-MRPL48-1:2	SEQ5193	2.E-07	2.1	FTD	ZMIZ1-AS1:33	SEQ4236	2.E-04	0.5
FTD	lnc-MRPL48-1:2	SEQ5193	3.E-04	1.6	miAD	ZMIZ1-AS1:33	SEQ4236	1.E-02	0.7
DLB	lnc-MRPL48-1:2	SEQ5193	4.E-04	1.7	All AD	ZMIZ1-AS1:33	SEQ4236	3.E-02	0.7
All AD	lnc-MRPL48-1:2	SEQ5193	4.E-02	1.1	miAD	ZNF436-AS1:9	SEQ4235	1.E-02	0.6
DLB	lnc-MRPL48-1:3	SEQ4932	8.E-04	1.4	All AD	ZNF436-AS1:9	SEQ4235	3.E-02	0.7

DLB	lnc-MRPL58-2:2	SEQ5615	2.E-04	1.4	DLB	ZNF460-AS1:2	SEQ3955	7.E-04	1.7
FTD	lnc-MRPS14-1:6	SEQ2452	2.E-04	0.7	msAD	ZNF460-AS1:2	SEQ3955	3.E-02	1.3
DLB	lnc-MRPS25-5:2	SEQ5123	6.E-04	1.5	All AD	ZNF460-AS1:2	SEQ3955	4.E-02	1.2
MCI	lnc-MRPS5-2:2	SEQ4304	9.E-05	2.1	FTD	ZSCAN16-AS1:12	SEQ4808	1.E-03	0.7

To further identify lncRNAs differentially expressed in AD patients, whole blood (Paxgene RNA tube) expression in AD patients were compared with non-AD subject groups. 136 lncRNAs were differentially expressed in whole blood (Paxgene RNA tube) of AD patient groups (mild AD + moderate-to-severe AD groups) when compared to non-AD subject groups (either DLB+ FTD groups or DLB+FTD+HC groups), with statistical significance (p value <0.05, Wilcoxon test) and a fold change FC≤0.80 or ≥1.20. The 136 lncRNAs are shown in Table 11.

Table 11: 136 whole blood (Paxgene RNA tube) lncRNAs differentially expressed in AD patient groups (mild AD + moderate-to-severe AD groups) when compared to non-AD subject groups (either DLB+ FTD groups or DLB+FTD+HC groups).

Group compared to AD	lncRNA	SEQ	p-value	FC	Group compared to AD	lncRNA	SEQ	p-value	FC
NAD	ARRDC3-AS1:3	SEQ6042	8E-04	0.8	NAD+HC	lnc-LRRC37A3-5:8	SEQ3442	4E-03	0.8
NAD+HC	ARRDC3-AS1:3	SEQ6042	3E-03	0.8	NAD	lnc-LRRC47-4:4	SEQ6118	4E-04	0.7
NAD+HC	CARS-AS1:1	SEQ6047	4E-03	0.8	NAD	lnc-MARS-1:1	SEQ6068	3E-04	0.8
NAD	CELF2-AS1:2	SEQ6134	2E-05	0.5	NAD+HC	lnc-MARS-1:1	SEQ6068	3E-04	0.8
NAD+HC	CFLAR-AS1:21	SEQ6090	2E-03	0.8	NAD+HC	lnc-NDUFB3-2:1	SEQ6043	2E-03	0.8
NAD+HC	CFLAR-AS1:8	SEQ6080	2E-03	0.8	NAD	lnc-NPTX1-2:4	SEQ6117	1E-04	0.6
NAD+HC	CSNK1G2-AS1:2	SEQ6094	2E-03	0.8	NAD+HC	lnc-NPTX1-2:4	SEQ6117	5E-04	0.7
NAD	DLEU2:21	SEQ6064	7E-05	0.7	NAD	lnc-OR4F29-7:1	SEQ6119	6E-04	0.6
NAD+HC	DLEU2:21	SEQ6064	1E-03	0.8	NAD+HC	lnc-OR4F29-7:1	SEQ6119	3E-03	0.7
NAD	FAM157C:5	SEQ6125	2E-04	0.6	NAD	lnc-OTOL1-5:1	SEQ6019	8E-05	2.3
NAD+HC	FAM157C:5	SEQ6125	3E-04	0.7	NAD+HC	lnc-OTOL1-5:1	SEQ6019	2E-04	1.9
NAD	FAM198B-AS1:2	SEQ6051	3E-05	0.7	NAD	lnc-PBX2-1:1	SEQ6081	3E-04	0.7
NAD+HC	FAM198B-AS1:2	SEQ6051	1E-03	0.8	NAD+HC	lnc-PBX2-1:1	SEQ6081	3E-04	0.8
NAD+HC	ITGB2-AS1:6	SEQ6097	4E-03	0.7	NAD	lnc-PBX2-1:2	SEQ6077	3E-04	0.7
NAD	JPX:34	SEQ6017	3E-04	2.7	NAD+HC	lnc-PBX2-1:2	SEQ6077	4E-04	0.8
NAD+HC	LCMT1-AS1:9	SEQ2883	4E-03	0.7	NAD+HC	lnc-PGAM1-4:1	SEQ6066	3E-03	0.8
NAD	LINC00324:3	SEQ6113	3E-04	0.7	NAD+HC	lnc-PLCD3-4:8	SEQ6112	3E-03	0.7
NAD	LINC00861:2	SEQ6132	7E-04	0.6	NAD	lnc-PLCG2-6:1	SEQ6095	7E-04	0.7
NAD+HC	LINC01000:3	SEQ6093	1E-03	0.8	NAD+HC	lnc-PLEKHG3-1:1	SEQ6056	3E-03	0.8
NAD+HC	LINC01001:1	SEQ6128	2E-03	0.6	NAD	lnc-RMDN2-11:1	SEQ6067	2E-04	0.7
NAD+HC	LINC01814:2	SEQ6071	2E-03	0.8	NAD+HC	lnc-RMDN2-11:1	SEQ6067	2E-03	0.8
NAD	lnc-ALDH1A2-9:1	SEQ6031	4E-04	1.5	NAD	lnc-RNF19A-8:2	SEQ6085	7E-04	0.8

NAD	lnc-ANXA2R-1:25	SEQ6121	3E-06	0.6	NAD	lnc-ROM1-7:2	SEQ6015	9E-06	3.8
NAD+HC	lnc-ANXA2R-1:25	SEQ6121	2E-05	0.7	NAD+HC	lnc-ROM1-7:2	SEQ6015	3E-04	2.9
NAD	lnc-ARFGEF2-6:1	SEQ6083	4E-04	0.7	NAD	lnc-RPEL1-2:1	SEQ6102	5E-04	0.7
NAD+HC	lnc-ARFGEF2-6:1	SEQ6083	2E-03	0.8	NAD+HC	lnc-RPEL1-2:1	SEQ6102	6E-04	0.7
NAD	lnc-ATG2A-2:1	SEQ6087	5E-04	0.8	NAD+HC	lnc-RPLP0-4:4	SEQ6060	2E-03	0.8
NAD	lnc-ATP6V1G3-6:1	SEQ6079	6E-04	0.8	NAD	lnc-SAG-4:1	SEQ6114	6E-04	0.7
NAD+HC	lnc-B3GNTL1-2:2	SEQ6040	4E-03	0.8	NAD	lnc-SAMD11-12:2	SEQ6021	2E-04	2.0
NAD	lnc-BCL2L11-6:5	SEQ6101	2E-04	0.7	NAD+HC	lnc-SAMD11-12:2	SEQ6021	1E-03	1.7
NAD+HC	lnc-BCL2L11-6:5	SEQ6101	2E-03	0.7	NAD	lnc-SAMD11-15:1	SEQ6030	4E-04	1.5
NAD	lnc-BRD3-7:1	SEQ6108	4E-05	0.6	NAD+HC	lnc-SAMD11-15:1	SEQ6030	9E-04	1.4
NAD+HC	lnc-BRD3-7:1	SEQ6108	2E-04	0.7	NAD+HC	lnc-SBDS-19:2	SEQ2509	3E-03	1.5
NAD	lnc-C1QTNF3-AMACR-2:5	SEQ6027	4E-04	1.6	NAD+HC	lnc-SETD9-6:1	SEQ6091	1E-03	0.8
NAD	lnc-C5orf56-4:1	SEQ6082	1E-04	0.7	NAD	lnc-SETDB1-1:1	SEQ6115	4E-04	0.7
NAD+HC	lnc-C5orf56-4:1	SEQ6082	3E-04	0.8	NAD+HC	lnc-SETDB1-1:1	SEQ6115	6E-04	0.7
NAD	lnc-CACNA1B-1:2	SEQ6120	3E-04	0.6	NAD	lnc-SHC3-5:3	SEQ3102	6E-04	1.9
NAD+HC	lnc-CACNA1B-1:2	SEQ6120	1E-03	0.7	NAD	lnc-SLC29A4-1:2	SEQ6052	5E-04	0.8
NAD	lnc-CACNA1B-1:4	SEQ6122	3E-04	0.6	NAD+HC	lnc-SLC29A4-1:2	SEQ6052	2E-03	0.8
NAD+HC	lnc-CACNA1B-1:4	SEQ6122	1E-03	0.7	NAD	lnc-SLC35F5-3:9	SEQ6022	7E-04	1.9
NAD+HC	lnc-CAND2-2:5	SEQ3083	2E-03	0.8	NAD+HC	lnc-SLC35F5-3:9	SEQ6022	1E-03	1.7
NAD+HC	lnc-CAND2-2:6	SEQ3084	2E-03	0.8	NAD	lnc-SLC5A10-3:2	SEQ6133	3E-04	0.5
NAD	lnc-CATSPER3-2:10	SEQ6104	5E-04	0.7	NAD	lnc-SNX11-10:2	SEQ6024	5E-04	1.8
NAD	lnc-CDC42BPB-4:1	SEQ3357	3E-04	0.8	NAD+HC	lnc-SNX11-10:2	SEQ6024	8E-04	1.7
NAD	lnc-CDC42BPB-4:4	SEQ6050	3E-04	0.8	NAD	lnc-SPATA32-2:12	SEQ6109	1E-04	0.7
NAD+HC	lnc-CDC42BPB-4:4	SEQ6050	2E-03	0.8	NAD+HC	lnc-SPATA32-2:12	SEQ6109	1E-04	0.7
NAD	lnc-CDHR4-5:2	SEQ6089	5E-04	0.8	NAD+HC	lnc-STX4-1:4	SEQ6075	3E-03	0.8
NAD	lnc-CDIPT-1:1	SEQ6048	5E-04	0.7	NAD	lnc-SYNPO-6:1	SEQ6123	1E-04	0.7
NAD+HC	lnc-CDIPT-1:1	SEQ6048	4E-03	0.8	NAD	lnc-SYT2-4:1	SEQ6107	2E-04	0.7
NAD+HC	lnc-CDIPT-1:5	SEQ6028	5E-04	1.5	NAD	lnc-TARDBP-5:3	SEQ6131	5E-04	0.6
NAD	lnc-CDIPT-1:5	SEQ6028	7E-04	1.6	NAD	lnc-TCF19-1:103	SEQ6130	6E-04	0.6
NAD+HC	lnc-CEBPB-13:13	SEQ6070	3E-03	0.8	NAD	lnc-THTPA-2:29	SEQ6016	8E-05	2.7

NAD+HC	lnc-CEBPG-4:1	SEQ6069	2E-03	0.8	NAD+HC	lnc-THTPA-2:29	SEQ6016	2E-04	2.2
NAD	lnc-CEL-4:1	SEQ6032	7E-04	1.5	NAD+HC	lnc-TLE3-6:8	SEQ6035	3E-03	1.3
NAD+HC	lnc-CHIC1-2:1	SEQ6026	1E-03	1.7	NAD+HC	lnc-TMEM150A-4:2	SEQ6046	4E-03	0.8
NAD+HC	lnc-CLLU1-2:6	SEQ3284	1E-04	12	NAD+HC	lnc-TMEM181-1:1	SEQ6084	2E-03	0.8
NAD	lnc-CLLU1-2:6	SEQ3284	2E-04	18	NAD	lnc-TREM2-1:1	SEQ6029	1E-04	1.5
NAD+HC	lnc-CNTRL-6:31	SEQ6023	3E-03	1.8	NAD	lnc-TRMT61B-5:6	SEQ6103	9E-05	0.7
NAD+HC	lnc-CTXN1-6:1	SEQ3096	3E-03	0.8	NAD+HC	lnc-TRMT61B-5:6	SEQ6103	2E-04	0.7
NAD	lnc-DDX39A-4:1	SEQ6045	3E-04	0.8	NAD	lnc-UGT2B28-1:2	SEQ1001	4E-04	1.8
NAD+HC	lnc-DDX39A-4:1	SEQ6045	3E-03	0.8	NAD+HC	lnc-UGT2B28-1:2	SEQ1001	2E-03	1.7
NAD	lnc-DDX49-1:1	SEQ2759	3E-04	0.8	NAD	lnc-UNC93B1-1:8	SEQ6092	6E-05	0.8
NAD+HC	lnc-DDX49-1:1	SEQ2759	3E-03	0.9	NAD+HC	lnc-WASHC3-2:3	SEQ6073	3E-03	0.8
NAD	lnc-DEPTOR-2:1	SEQ6037	4E-04	1.3	NAD	lnc-WDR81-6:1	SEQ6055	8E-04	0.7
NAD	lnc-DGKE-7:1	SEQ6062	3E-04	0.7	NAD+HC	lnc-WDR81-6:1	SEQ6055	3E-03	0.8
NAD+HC	lnc-DGKE-7:1	SEQ6062	4E-03	0.8	NAD+HC	lnc-WSB1-1:1	SEQ6054	2E-03	0.8
NAD+HC	lnc-DHRS7B-1:10	SEQ6041	1E-03	0.8	NAD+HC	lnc-ZFP57-21:6	SEQ6099	3E-03	0.7
NAD	lnc-EIF4H-1:1	SEQ6053	1E-04	0.7	NAD	lnc-ZNF705B-1:6	SEQ6086	7E-04	0.7
NAD+HC	lnc-EIF4H-1:1	SEQ6053	8E-04	0.8	NAD+HC	lnc-ZNF705B-1:6	SEQ6086	3E-03	0.8
NAD	lnc-EPHB1-1:1	SEQ6129	1E-04	0.6	NAD	lnc-ZRANB1-7:1	SEQ6039	6E-04	0.8
NAD+HC	lnc-FANCI-5:3	SEQ6044	3E-03	0.8	NAD+HC	lnc-ZRANB1-7:1	SEQ6039	2E-03	0.8
NAD	lnc-FKBP6-4:1	SEQ3394	8E-04	0.8	NAD+HC	MALAT1:17	SEQ6076	2E-03	0.8
NAD+HC	lnc-FKBP6-4:1	SEQ3394	3E-03	0.8	NAD+HC	MIR22HG:36	SEQ6038	2E-03	0.9
NAD+HC	lnc-GABBR1-1:1	SEQ6036	2E-03	1.3	NAD+HC	MIR4435-2HG:29	SEQ6074	4E-03	0.8
NAD	lnc-GINS2-2:6	SEQ6096	2E-04	0.7	NAD	MME-AS1:1	SEQ6106	1E-04	0.6
NAD+HC	lnc-GINS2-2:6	SEQ6096	4E-03	0.7	NAD+HC	MME-AS1:1	SEQ6106	2E-03	0.7
NAD+HC	lnc-GPR20-3:6	SEQ6105	3E-03	0.7	NAD	NALT1:14	SEQ6127	7E-04	0.7
NAD+HC	lnc-GPR68-1:1	SEQ6088	2E-03	0.8	NAD	NUTM2A-AS1:16	SEQ6110	2E-04	0.6
NAD	lnc-GTPBP1-4:1	SEQ6072	3E-04	0.7	NAD+HC	NUTM2A-AS1:16	SEQ6110	1E-03	0.7
NAD+HC	lnc-GTPBP1-4:1	SEQ6072	6E-04	0.8	NAD+HC	PCBP1-AS1:170	SEQ6098	4E-03	0.7
NAD	lnc-HLA-B-2:12	SEQ6116	4E-06	0.6	NAD+HC	PCBP1-AS1:27	SEQ6100	3E-03	0.7
NAD+HC	lnc-HLA-B-2:12	SEQ6116	9E-05	0.7	NAD+HC	RARA-AS1:2	SEQ6049	2E-03	0.8
NAD+HC	lnc-HYAL3-1:1	SEQ6065	8E-04	0.8	NAD	SNHG10:11	SEQ6078	3E-04	0.8
NAD	lnc-IL10-1:1	SEQ6126	3E-04	0.7	NAD	SNHG22:6	SEQ6034	7E-04	1.4
NAD	lnc-IL31RA-2:1	SEQ2557	8E-04	0.7	NAD+HC	SNHG7:16	SEQ6124	4E-04	0.7
NAD	lnc-INSM2-8:1	SEQ6033	4E-04	1.4	NAD	SNHG7:16	SEQ6124	4E-04	0.6
NAD+HC	lnc-IRF1-2:5	SEQ6058	4E-03	0.8	NAD+HC	TCONS_00011974	SEQ1218	3E-03	0.8
NAD	lnc-ISYNA1-2:1	SEQ6063	3E-04	0.8	NAD	TCONS_00017370	SEQ1271	4E-05	103
NAD+HC	lnc-ISYNA1-2:1	SEQ6063	2E-03	0.8	NAD+HC	TCONS_00017370	SEQ1271	3E-03	66

NAD+HC	lnc-KIAA1551-3:1	SEQ6061	2E-03	0.8	NAD+HC	TCONS_00017373	SEQ1274	2E-03	1.5
NAD	lnc-KLHDC7B-5:2	SEQ6111	7E-04	0.7	NAD	XIST:27	SEQ6020	4E-04	2.1
NAD+HC	lnc-LAX1-4:1	SEQ6059	4E-03	0.8	NAD+HC	XIST:27	SEQ6020	1E-03	1.8
NAD	lnc-LGALS2-1:2	SEQ6057	3E-04	0.8	NAD+HC	XIST:47	SEQ6025	3E-03	1.7
NAD+HC	lnc-LGALS2-1:2	SEQ6057	2E-03	0.8	NAD	ZNF529-AS1:19	SEQ6018	3E-05	2.4

Brain-enriched lncRNAs: Out of the 10122 lncRNAs sequenced by the invention in the AD and control brains and having an expression level > 5 CPM (median), 860 lncRNAs showed an expression level 2-fold higher in the brain as compared to peripheral organs lung, ovary, colon, prostate, breast, liver, bladder, kidney, skin, heart, muscle. The 860 lncRNAs are shown in Table 12.

Table 12: 860 brain-enriched lncRNAs with an expression level in the brain at least 2-fold higher than that in 12 peripheral organs.

lncRNA	SEQ	Ratio Br/org	lncRNA	SEQ	Ratio Br/Org
TCONS_00005325	SEQ1141	7.7E+01	TCONS_00062327	SEQ2005	7.4E+23
TCONS_00035021	SEQ1566	4.0E+00	TCONS_00062311	SEQ1996	1.9E+05
TCONS_00035024	SEQ1571	1.9E+01	TCONS_00033704	SEQ1562	2.8E+03
TCONS_00035022	SEQ1567	4.6E+32	TCONS_00036143	SEQ1611	9.6E+01
TCONS_00012059	SEQ1200	1.2E+03	TCONS_00045398	SEQ1789	7.7E+01
TCONS_00045364	SEQ1785	3.7E+00	TCONS_00033666	SEQ1553	3.9E+01
TCONS_00050012	SEQ1801	6.7E+02	TCONS_00021559	SEQ1333	3.3E+01
TCONS_00035023	SEQ1568	6.9E+04	TCONS_00026547	SEQ1410	2.6E+01
TCONS_00012060	SEQ1201	5.6E+02	TCONS_00055516	SEQ1902	2.4E+01
TCONS_00035090	SEQ1564	4.8E+00	TCONS_00062422	SEQ2040	2.4E+01
TCONS_00035091	SEQ1565	1.3E+01	TCONS_00024800	SEQ1391	2.0E+01
TCONS_00050014	SEQ1803	1.2E+03	TCONS_00021416	SEQ1328	1.9E+01
TCONS_00035094	SEQ1573	2.7E+01	TCONS_00014326	SEQ1225	1.3E+01
TCONS_00035092	SEQ1569	3.4E+02	TCONS_00045346	SEQ1781	9.0E+00
TCONS_00035093	SEQ1570	4.5E+01	TCONS_00021544	SEQ1320	9.0E+00
TCONS_00012009	SEQ1185	3.2E+01	TCONS_00023115	SEQ1352	7.6E+00
TCONS_00045125	SEQ1790	1.1E+01	TCONS_00014261	SEQ1249	6.3E+00
TCONS_00024864	SEQ1388	5.0E+01	lnc-NKX1-2-2:1	SEQ6510	3.2E+00
lnc-SP110-8:2	SEQ6135	9.6E+02	lnc-HSDL1-1:1	SEQ6511	3.2E+00
MEG3:21	SEQ6136	2.0E+02	lnc-FAM115C-1:1	SEQ6512	3.2E+00
lnc-CCDC150-6:1	SEQ6137	1.8E+02	lnc-AARSD1-2:7	SEQ6513	3.2E+00
lnc-ZNF45-2:1	SEQ6138	1.7E+02	LINC00969:38	SEQ6514	3.2E+00
NUTM2B-AS1:31	SEQ6139	1.5E+02	lnc-VPREB1-7:13	SEQ6515	3.2E+00
lnc-HMBS-1:1	SEQ6140	1.2E+02	lnc-MYO15A-1:1	SEQ6516	3.2E+00
TMEM5-AS1:2	SEQ6141	9.4E+01	lnc-SNURF-1:22	SEQ6517	3.2E+00
lnc-ZNF583-4:2	SEQ6142	9.2E+01	lnc-ZNF415-2:9	SEQ6518	3.2E+00
lnc-LYRM2-2:1	SEQ6143	6.5E+01	lnc-KNG1-2:5	SEQ6519	3.2E+00
lnc-TBX2-4:2	SEQ6144	6.5E+01	LINC00641:4	SEQ6520	3.1E+00

lnc-NAA50-3:1	SEQ2266	6.1E+01	lnc-KCND3-3:1	SEQ6521	3.1E+00
lnc-HINFP-1:1	SEQ6145	5.9E+01	lnc-XPOT-2:1	SEQ6522	3.1E+00
MIR4458HG:7	SEQ6146	4.8E+01	lnc-ARIH2-2:6	SEQ6523	3.1E+00
lnc-SLC25A44-1:2	SEQ6147	4.4E+01	lnc-GNGT1-1:3	SEQ6524	3.1E+00
lnc-SEPT5-1:4	SEQ6148	4.2E+01	lnc-CEPT1-1:6	SEQ6525	3.1E+00
lnc-UBE4A-1:1	SEQ6149	4.1E+01	lnc-SLC25A4-1:1	SEQ6526	3.1E+00
lnc-RP11-334E6.3.1-2:1	SEQ6150	4.0E+01	lnc-AGAP9-2:2	SEQ6527	3.1E+00
lnc-GBP5-2:6	SEQ6151	4.0E+01	lnc-DLG5-4:2	SEQ6528	3.1E+00
lnc-FAM49B-5:1	SEQ6152	4.0E+01	lnc-PPHLN1-1:2	SEQ6529	3.1E+00
STXBP5-AS1:2	SEQ6153	4.0E+01	lnc-RBM25-2:1	SEQ6530	3.1E+00
lnc-ROBO3-2:2	SEQ6154	3.9E+01	lnc-USH2A-4:1	SEQ6531	3.1E+00
lnc-ZNF91-4:4	SEQ6155	3.9E+01	lnc-ENC1-5:1	SEQ2244	3.1E+00
lnc-ATRNL1-1:1	SEQ6156	3.7E+01	lnc-FAM106A-2:18	SEQ6532	3.1E+00
lnc-MAPK8IP1-3:1	SEQ6157	3.5E+01	lnc-METTL17-1:2	SEQ6533	3.1E+00
LINC01024:12	SEQ6158	3.4E+01	lnc-TMEM178-1:19	SEQ6534	3.1E+00
lnc-CSNK2A2-2:2	SEQ6159	3.2E+01	lnc-CHRNA5-4:7	SEQ6535	3.1E+00
lnc-LPL-4:2	SEQ6160	3.1E+01	lnc-C1orf200-9:1	SEQ6536	3.1E+00
lnc-TBL1XR1-17:1	SEQ2374	3.1E+01	lnc-HEXA-3:1	SEQ6537	3.1E+00
lnc-POM121L2-2:1	SEQ2133	2.8E+01	lnc-PKHD1L1-2:7	SEQ6538	3.1E+00
lnc-MBOAT2-5:1	SEQ6161	2.8E+01	lnc-GALNT5-4:1	SEQ6539	3.0E+00
lnc-CDC27-7:1	SEQ6162	2.7E+01	lnc-TOB1-4:1	SEQ5647	3.0E+00
lnc-RP11-345P4.5.1-1:1	SEQ6163	2.7E+01	lnc-ZNF238-7:1	SEQ6540	3.0E+00
lnc-PNPLA8-2:8	SEQ6164	2.5E+01	lnc-KCNMB4-4:3	SEQ6541	3.0E+00
lnc-CYP20A1-1:3	SEQ6165	2.5E+01	lnc-BRWD1-1:1	SEQ6542	3.0E+00
lnc-CTD-2117L12.1.1-4:4	SEQ6166	2.5E+01	lnc-DYNLL1-1:1	SEQ6543	3.0E+00
lnc-KNG1-2:3	SEQ6167	2.4E+01	lnc-TMF1-2:1	SEQ6544	3.0E+00
lnc-SNAP25-3:1	SEQ6168	2.4E+01	lnc-HSPBP1-1:1	SEQ6545	3.0E+00
UBA6-AS1:10	SEQ6169	2.3E+01	TTC28-AS1:33	SEQ6546	3.0E+00
EIF3J-AS1:2	SEQ6170	2.3E+01	lnc-SLC8A1-1:1	SEQ6547	3.0E+00
SLC25A25-AS1:16	SEQ6171	2.2E+01	lnc-HMGA1-2:4	SEQ3415	3.0E+00
lnc-UQCRH-1:3	SEQ6172	2.1E+01	lnc-TH1L-5:6	SEQ6548	3.0E+00
lnc-DLX1-2:5	SEQ6173	2.0E+01	lnc-RGS9-1:5	SEQ6549	3.0E+00
SUCLG2-AS1:5	SEQ6174	2.0E+01	lnc-SERINC1-3:1	SEQ5720	3.0E+00
lnc-ARSG-1:1	SEQ6175	1.8E+01	lnc-SMARCA5-6:4	SEQ6550	3.0E+00
lnc-COX17-2:2	SEQ6176	1.8E+01	lnc-RGS9-1:1	SEQ6551	3.0E+00
lnc-TRIM26-2:8	SEQ6177	1.8E+01	LINC01420:2	SEQ6552	3.0E+00
lnc-RAB27A-1:4	SEQ6178	1.8E+01	lnc-AC007401.2.1-2:1	SEQ6553	3.0E+00
TP73-AS1:23	SEQ6179	1.8E+01	lnc-BX255923.1-8:3	SEQ6554	3.0E+00
lnc-VPREB1-7:6	SEQ6180	1.7E+01	NR2F1-AS1:15	SEQ6555	3.0E+00
RNF219-AS1:4	SEQ6181	1.7E+01	lnc-AC138969.4.1-1:1	SEQ6556	3.0E+00
lnc-BRAF-2:1	SEQ6182	1.7E+01	lnc-CYP26C1-1:1	SEQ6557	3.0E+00
lnc-TPTE2-4:1	SEQ2431	1.5E+01	lnc-TCEA1-3:1	SEQ6558	3.0E+00
MYLK-AS1:1	SEQ6183	1.5E+01	lnc-CSNK1D-2:6	SEQ6559	2.9E+00
lnc-UQCRH-1:1	SEQ6184	1.5E+01	lnc-DNAL1-1:1	SEQ2480	2.9E+00
lnc-GPR39-9:1	SEQ2704	1.4E+01	lnc-MLNR-2:2	SEQ6560	2.9E+00
lnc-TRIM26-2:24	SEQ6185	1.4E+01	lnc-THEMIS-6:1	SEQ6561	2.9E+00

lnc-EPHA4-4:1	SEQ6186	1.4E+01	lnc-DAPL1-3:1	SEQ6562	2.9E+00
lnc-LSM5-2:1	SEQ6187	1.4E+01	lnc-ARL15-7:1	SEQ6563	2.9E+00
lnc-MLST8-2:6	SEQ6188	1.4E+01	lnc-CDKL2-2:1	SEQ6564	2.9E+00
NCBP2-AS2:1	SEQ6189	1.3E+01	lnc-UBLCP1-3:3	SEQ6565	2.9E+00
LIMD1-AS1:3	SEQ6190	1.3E+01	lnc-VEZF1-1:6	SEQ6566	2.9E+00
PINK1-AS:1	SEQ2712	1.3E+01	SNHG4:19	SEQ6567	2.9E+00
lnc-BRWD1-2:2	SEQ6191	1.3E+01	lnc-TANK-3:1	SEQ6568	2.9E+00
lnc-FAM200B-1:5	SEQ6192	1.3E+01	ATP6V0E2-AS1:1	SEQ4643	2.9E+00
lnc-ARL6IP4-1:10	SEQ6193	1.3E+01	lnc-SP3-10:1	SEQ6569	2.9E+00
lnc-TMEM189-UBE2V1-4:5	SEQ6194	1.3E+01	lnc-SNURF-1:8	SEQ6570	2.9E+00
lnc-ARL16-2:2	SEQ6195	1.3E+01	lnc-AZIN1-1:5	SEQ6571	2.9E+00
lnc-NAGA-2:1	SEQ6196	1.3E+01	lnc-CHMP1A-4:6	SEQ6572	2.9E+00
lnc-LPCAT1-3:23	SEQ6197	1.3E+01	GAS5:40	SEQ6573	2.9E+00
lnc-NEDD8-MDP1-1:1	SEQ6198	1.2E+01	lnc-BCO2-2:3	SEQ6574	2.9E+00
LIFR-AS1:3	SEQ6199	1.2E+01	lnc-POC1B-GALNT4-3:1	SEQ6575	2.9E+00
lnc-NEK3-1:8	SEQ6200	1.2E+01	lnc-TPD52-3:12	SEQ6576	2.9E+00
lnc-KCNE4-7:1	SEQ2466	1.2E+01	lnc-FAM27B-12:3	SEQ6577	2.9E+00
lnc-FAM200B-1:11	SEQ6201	1.2E+01	lnc-STARD9-1:1	SEQ6578	2.9E+00
lnc-CDC42SE2-1:10	SEQ2613	1.2E+01	lnc-IKBIP-1:1	SEQ4407	2.9E+00
lnc-TM9SF2-8:1	SEQ6202	1.2E+01	lnc-MBOAT4-2:1	SEQ2592	2.9E+00
MIR4458HG:6	SEQ6203	1.2E+01	lnc-ATP6V1E1-2:2	SEQ6579	2.9E+00
lnc-DCTN3-1:3	SEQ6204	1.1E+01	lnc-SPINK9-2:2	SEQ6580	2.9E+00
lnc-PAPLN-3:1	SEQ6205	1.1E+01	lnc-SHC4-3:1	SEQ6581	2.9E+00
lnc-RP11-1035H13.3.1-1:3	SEQ6206	1.1E+01	lnc-GATSL1-4:4	SEQ6582	2.8E+00
lnc-NDUFS1-2:2	SEQ6207	1.1E+01	lnc-DNAJC16-1:2	SEQ4625	2.8E+00
LINC00630:8	SEQ6208	1.1E+01	lnc-SLC39A6-3:1	SEQ6583	2.8E+00
lnc-ZNF449-3:5	SEQ2420	1.1E+01	lnc-POU5F1-10:2	SEQ6584	2.8E+00
lnc-ZNF449-3:4	SEQ2421	1.1E+01	lnc-NMD3-1:1	SEQ2364	2.8E+00
PEG3-AS1:1	SEQ2398	1.1E+01	lnc-FGD4-5:1	SEQ6585	2.8E+00
lnc-XRRA1-1:3	SEQ6209	1.0E+01	lnc-RAD54B-2:3	SEQ6586	2.8E+00
lnc-USP13-5:1	SEQ6210	1.0E+01	LINC01355:4	SEQ6587	2.8E+00
lnc-FAM104A-2:1	SEQ2542	1.0E+01	lnc-IMPDH1-3:3	SEQ6588	2.8E+00
lnc-CPO-2:1	SEQ6211	1.0E+01	lnc-TMEM88B-3:8	SEQ6589	2.8E+00
lnc-KBTBD6-2:1	SEQ2349	1.0E+01	EIF3J-AS1:4	SEQ6590	2.8E+00
lnc-GPC2-2:7	SEQ6212	9.7E+00	lnc-PRR11-3:1	SEQ6591	2.8E+00
lnc-POLK-3:1	SEQ6213	9.6E+00	lnc-ZNF880-1:1	SEQ6592	2.8E+00
lnc-INO80B-1:2	SEQ6214	9.6E+00	lnc-SLC4A5-3:1	SEQ6593	2.8E+00
lnc-ZSCAN10-3:1	SEQ6215	9.4E+00	NR2F1-AS1:27	SEQ6594	2.8E+00
lnc-RASA1-13:5	SEQ6216	9.4E+00	lnc-STARD4-4:2	SEQ6595	2.8E+00
lnc-PRMT5-1:2	SEQ6217	9.4E+00	lnc-GUSB-15:1	SEQ6596	2.8E+00
lnc-CPOX-1:1	SEQ6218	9.4E+00	SNHG21:15	SEQ6597	2.8E+00
lnc-VEPH1-2:1	SEQ6219	9.3E+00	lnc-CSNK2A2-2:1	SEQ6598	2.8E+00
lnc-RPAIN-2:1	SEQ6220	9.3E+00	lnc-PON3-2:1	SEQ6599	2.8E+00
lnc-SNX20-5:3	SEQ2643	9.3E+00	lnc-C14orf132-1:5	SEQ6600	2.8E+00
RNF219-AS1:16	SEQ4990	9.2E+00	lnc-RNASEK-1:4	SEQ6601	2.7E+00
lnc-C9orf123-8:2	SEQ6221	9.1E+00	lnc-NR2C2-1:1	SEQ2751	2.7E+00

lnc-SLC5A2-1:4	SEQ6222	9.1E+00	lnc-PNP-1:1	SEQ6602	2.7E+00
lnc-GDPD4-7:1	SEQ6223	9.0E+00	lnc-CWH43-3:4	SEQ6603	2.7E+00
lnc-PRKD2-2:1	SEQ6224	9.0E+00	lnc-CLSTN2-1:1	SEQ6604	2.7E+00
lnc-C18orf54-3:4	SEQ6225	9.0E+00	lnc-SLC9A5-2:1	SEQ6605	2.7E+00
lnc-AGPHD1-1:6	SEQ6226	9.0E+00	lnc-C1orf185-5:1	SEQ6606	2.7E+00
lnc-NPR3-3:5	SEQ6227	8.9E+00	lnc-TMEM167A-4:5	SEQ6607	2.7E+00
lnc-CBWD5-2:8	SEQ6228	8.9E+00	lnc-TSC22D2-1:2	SEQ6608	2.7E+00
lnc-NUDT3-1:2	SEQ6229	8.8E+00	lnc-TULP4-1:1	SEQ6609	2.7E+00
lnc-VSTM5-1:13	SEQ2419	8.7E+00	lnc-SYNE2-4:1	SEQ2308	2.7E+00
LINC00630:12	SEQ6230	8.7E+00	lnc-RPRML-3:20	SEQ6610	2.7E+00
lnc-SLMO2-3:1	SEQ6231	8.7E+00	PSMD5-AS1:5	SEQ6611	2.7E+00
lnc-DPH5-2:7	SEQ6232	8.6E+00	lnc-R3HDM1-1:2	SEQ6612	2.7E+00
lnc-SCN4B-2:3	SEQ6233	8.5E+00	PCBP1-AS1:183	SEQ6613	2.7E+00
lnc-NDUFA6-1:1	SEQ6234	8.5E+00	lnc-PHLDB2-2:3	SEQ6614	2.7E+00
RAB11B-AS1:1	SEQ6235	8.5E+00	LINC00339:21	SEQ6615	2.7E+00
lnc-LRRC37A2-2:3	SEQ6236	8.4E+00	lnc-POLR1B-2:1	SEQ6616	2.7E+00
lnc-PAQR7-1:1	SEQ6237	8.3E+00	lnc-MOCOS-3:10	SEQ6617	2.7E+00
lnc-POLR2I-1:2	SEQ6238	8.3E+00	lnc-CSTF3-2:1	SEQ6618	2.7E+00
lnc-H2AFZ-1:4	SEQ6239	8.2E+00	lnc-SEPT5-1:2	SEQ6619	2.7E+00
SVIL-AS1:4	SEQ6240	8.1E+00	NFYC-AS1:2	SEQ6620	2.7E+00
lnc-DCUN1D3-1:5	SEQ6241	8.1E+00	lnc-PABPC1L-2:1	SEQ6621	2.7E+00
lnc-PRR4-1:2	SEQ6242	8.0E+00	lnc-DUS4L-2:4	SEQ6622	2.7E+00
MAGI2-AS3:13	SEQ6243	8.0E+00	CKMT2-AS1:6	SEQ6623	2.7E+00
lnc-FANCM-8:3	SEQ2291	7.9E+00	MIF-AS1:7	SEQ3858	2.7E+00
lnc-CRLF1-2:1	SEQ6244	7.8E+00	lnc-TBR1-1:1	SEQ6624	2.7E+00
lnc-PPP4C-1:1	SEQ6245	7.7E+00	lnc-NFAT5-2:1	SEQ6625	2.7E+00
lnc-RNF187-2:2	SEQ6246	7.6E+00	lnc-NLRP3-1:5	SEQ6626	2.7E+00
lnc-ATAT1-4:1	SEQ6247	7.5E+00	lnc-SLC25A39-2:1	SEQ5393	2.7E+00
lnc-AP2M1-2:1	SEQ6248	7.5E+00	lnc-PPHLN1-1:1	SEQ6627	2.7E+00
lnc-MARCH7-1:3	SEQ6249	7.5E+00	lnc-CTC-554D6.1.1-2:1	SEQ6628	2.7E+00
lnc-ZNF518B-2:4	SEQ5239	7.5E+00	lnc-DDIT3-2:1	SEQ6629	2.7E+00
lnc-OTP-4:1	SEQ6250	7.4E+00	lnc-ABCD2-4:1	SEQ2216	2.6E+00
EPB41L4A-AS1:4	SEQ6251	7.4E+00	lnc-BMF-3:4	SEQ6630	2.6E+00
lnc-ATAD5-3:22	SEQ6252	7.4E+00	lnc-CXXC11-8:6	SEQ6631	2.6E+00
NDUFA6-AS1:4	SEQ6253	7.4E+00	lnc-PSMC1-2:2	SEQ6632	2.6E+00
lnc-RGPD1-6:1	SEQ6254	7.4E+00	lnc-AC008394.1-7:1	SEQ6633	2.6E+00
lnc-DLG2-3:2	SEQ6255	7.3E+00	lnc-TNFRSF14-5:3	SEQ6634	2.6E+00
lnc-PSMA3-1:5	SEQ6256	7.3E+00	lnc-FER-8:1	SEQ6635	2.6E+00
lnc-GRIN2A-1:2	SEQ6257	7.0E+00	lnc-ELN-2:2	SEQ6636	2.6E+00
lnc-KNG1-2:6	SEQ6258	7.0E+00	lnc-PSMA7-1:1	SEQ5951	2.6E+00
lnc-AMN1-1:2	SEQ6259	7.0E+00	lnc-TTYH2-1:4	SEQ6637	2.6E+00
lnc-MTMR4-2:1	SEQ6260	7.0E+00	lnc-RPL36A-1:4	SEQ6638	2.6E+00
lnc-PRTFDC1-3:1	SEQ6261	6.9E+00	lnc-WSB1-5:1	SEQ6639	2.6E+00
lnc-PRKAR1A-2:1	SEQ6262	6.9E+00	lnc-SLC25A38-2:1	SEQ6640	2.6E+00
lnc-ANKRD56-5:1	SEQ6263	6.9E+00	lnc-LEPREL4-1:3	SEQ6641	2.6E+00
lnc-GJC2-2:2	SEQ6264	6.9E+00	lnc-B4GALT2-1:2	SEQ6642	2.6E+00

lnc-CDKL3-3:1	SEQ6265	6.9E+00	lnc-AL049840.1-3:1	SEQ6643	2.6E+00
MYCBP2-AS1:10	SEQ6266	6.8E+00	lnc-SUMF2-10:1	SEQ6644	2.6E+00
lnc-POM121L2-2:8	SEQ6267	6.8E+00	lnc-EIF1AD-1:1	SEQ2653	2.6E+00
lnc-IQUB-2:6	SEQ6268	6.7E+00	lnc-NUDT16L1-2:1	SEQ6645	2.6E+00
lnc-ARMC9-2:2	SEQ6269	6.7E+00	lnc-TMEM180-2:1	SEQ6646	2.6E+00
lnc-DBF4-3:1	SEQ6270	6.7E+00	lnc-PPIL2-1:2	SEQ6647	2.6E+00
lnc-SOCS6-10:1	SEQ2214	6.6E+00	lnc-ERAS-4:1	SEQ6648	2.6E+00
lnc-AF131216.6.1-2:2	SEQ6271	6.5E+00	lnc-USP34-1:10	SEQ3127	2.6E+00
lnc-CLEC2D-8:7	SEQ3369	6.5E+00	lnc-EIF4G1-1:1	SEQ6649	2.6E+00
lnc-UROS-2:4	SEQ6272	6.5E+00	lnc-GPRIN2-2:1	SEQ2453	2.6E+00
lnc-EDC4-1:2	SEQ6273	6.5E+00	DICER1-AS1:9	SEQ6650	2.6E+00
lnc-ESCO2-1:2	SEQ6274	6.5E+00	lnc-C10orf40-5:1	SEQ6651	2.6E+00
OTUD6B-AS1:3	SEQ6275	6.4E+00	lnc-BCAT1-2:1	SEQ6652	2.6E+00
lnc-SREBF1-1:1	SEQ6276	6.4E+00	lnc-RP11-96O20.4.1-1:4	SEQ6653	2.5E+00
lnc-DLG5-4:1	SEQ6277	6.4E+00	lnc-RP11-1012A1.4.1-1:5	SEQ6654	2.5E+00
lnc-GNGT1-4:1	SEQ6278	6.4E+00	lnc-RP11-632K20.1.1-1:1	SEQ6655	2.5E+00
lnc-PRDX2-1:1	SEQ6279	6.4E+00	lnc-BDH2-2:1	SEQ6656	2.5E+00
lnc-MBOAT4-5:1	SEQ6280	6.3E+00	lnc-CDO1-1:7	SEQ6657	2.5E+00
lnc-RBM25-5:2	SEQ6281	6.2E+00	lnc-GDI1-1:1	SEQ4743	2.5E+00
LINC-PINT:9	SEQ6282	6.2E+00	lnc-SSBP2-5:9	SEQ6658	2.5E+00
lnc-RP11-478C19.2.1-2:7	SEQ6283	6.2E+00	CERS6-AS1:3	SEQ6659	2.5E+00
lnc-APOPT1-1:1	SEQ6284	6.1E+00	lnc-ABCA3-2:1	SEQ6660	2.5E+00
lnc-ZBTB17-4:1	SEQ6285	6.1E+00	SNHG1:25	SEQ6661	2.5E+00
lnc-PRKAB2-5:1	SEQ6286	6.1E+00	lnc-MLLT6-1:1	SEQ6662	2.5E+00
lnc-TMEM154-4:2	SEQ6287	6.1E+00	lnc-OTOA-2:1	SEQ6663	2.5E+00
GLIDR:2	SEQ6288	6.1E+00	lnc-CDK2AP1-1:1	SEQ6664	2.5E+00
lnc-ZNF664-2:16	SEQ6289	6.0E+00	lnc-CDK2AP1-1:7	SEQ6665	2.5E+00
lnc-MLL3-1:2	SEQ6290	6.0E+00	LINC00963:8	SEQ6666	2.5E+00
lnc-MRPL48-4:1	SEQ6291	6.0E+00	lnc-C3orf25-2:7	SEQ6667	2.5E+00
lnc-TMEM232-7:1	SEQ6292	6.0E+00	LINC00894:9	SEQ6668	2.5E+00
lnc-BRCC3-4:1	SEQ6293	6.0E+00	lnc-CCDC68-4:1	SEQ6669	2.5E+00
lnc-PKD2L1-6:1	SEQ6294	5.9E+00	lnc-S100A13-2:7	SEQ6670	2.5E+00
UBA6-AS1:2	SEQ6295	5.9E+00	lnc-EFHB-5:1	SEQ6671	2.5E+00
lnc-SESN3-2:2	SEQ6296	5.9E+00	lnc-AC073263.1-3:1	SEQ6672	2.5E+00
lnc-SGIP1-3:1	SEQ6297	5.9E+00	LINC00623:8	SEQ6673	2.5E+00
SNHG3:2	SEQ6298	5.8E+00	lnc-ZNF33B-4:11	SEQ6674	2.5E+00
lnc-GABBR1-1:1	SEQ6036	5.7E+00	LINC01278:2	SEQ6675	2.5E+00
lnc-EXD1-1:1	SEQ6299	5.7E+00	lnc-PLAT-4:1	SEQ6676	2.5E+00
lnc-VPREB1-7:1	SEQ6300	5.7E+00	lnc-STXBP3-1:2	SEQ6677	2.5E+00
lnc-PPFIA4-1:1	SEQ2325	5.7E+00	CERS6-AS1:4	SEQ6678	2.5E+00
lnc-C2orf63-3:1	SEQ6301	5.7E+00	CERS6-AS1:5	SEQ6679	2.5E+00
TP73-AS1:21	SEQ6302	5.7E+00	TMEM254-AS1:1	SEQ6680	2.5E+00
lnc-FAM200B-1:3	SEQ6303	5.6E+00	lnc-EPB41L3-3:1	SEQ6681	2.5E+00
lnc-FAM210A-1:1	SEQ6304	5.6E+00	lnc-XRCC5-1:3	SEQ6682	2.5E+00
lnc-FAM153A-3:4	SEQ6305	5.6E+00	lnc-CCAR1-4:1	SEQ6683	2.5E+00
lnc-PCGF5-5:4	SEQ6306	5.6E+00	lnc-SNX2-1:2	SEQ4824	2.5E+00

BCDIN3D-AS1:1	SEQ6307	5.5E+00	lnc-GALNTL1-5:5	SEQ6684	2.5E+00
lnc-KIAA1704-3:1	SEQ6308	5.5E+00	lnc-FAM200B-1:16	SEQ6685	2.4E+00
lnc-C5orf13-1:3	SEQ6309	5.5E+00	EAF1-AS1:14	SEQ6686	2.4E+00
lnc-RGR-3:4	SEQ6310	5.5E+00	lnc-SLC16A9-6:2	SEQ6687	2.4E+00
lnc-RPGRIP1L-1:2	SEQ6311	5.5E+00	lnc-GNA13-2:9	SEQ6688	2.4E+00
lnc-FAM120AOS-3:6	SEQ6312	5.5E+00	lnc-GALT-1:9	SEQ6689	2.4E+00
lnc-DYNC1LI2-2:2	SEQ6313	5.5E+00	lnc-ATP6V0A1-1:2	SEQ6690	2.4E+00
lnc-GPS2-1:1	SEQ6314	5.5E+00	lnc-CCNB1IP1-1:1	SEQ6691	2.4E+00
PRKCQ-AS1:11	SEQ4800	5.4E+00	lnc-C11orf58-2:3	SEQ6692	2.4E+00
lnc-ZAR1L-2:1	SEQ6315	5.4E+00	lnc-ST7L-3:10	SEQ6693	2.4E+00
lnc-TRIOBP-1:3	SEQ6316	5.4E+00	lnc-DHX33-2:1	SEQ6694	2.4E+00
lnc-RNPEP-3:1	SEQ6317	5.4E+00	lnc-AC011551.1-1:1	SEQ6695	2.4E+00
lnc-FOXD4L6-2:6	SEQ6318	5.4E+00	lnc-SP9-4:2	SEQ6696	2.4E+00
lnc-FAM150B-5:3	SEQ6319	5.4E+00	lnc-C11orf31-1:1	SEQ6697	2.4E+00
LINC00662:21	SEQ6320	5.4E+00	lnc-AL669831.1-11:3	SEQ6698	2.4E+00
lnc-PNLIPRP1-1:2	SEQ2540	5.3E+00	lnc-NINL-2:1	SEQ6699	2.4E+00
CARS-AS1:2	SEQ6321	5.3E+00	OIP5-AS1:25	SEQ5168	2.4E+00
lnc-FBXO3-3:2	SEQ6322	5.2E+00	lnc-KIAA1383-7:2	SEQ6700	2.4E+00
lnc-XRCC5-3:1	SEQ2326	5.2E+00	lnc-APBA1-1:2	SEQ6701	2.4E+00
lnc-AIPL1-6:1	SEQ6323	5.2E+00	NIPBL-AS1:3	SEQ6702	2.4E+00
lnc-AF131215.2.1-1:3	SEQ6324	5.1E+00	lnc-MRPL30-2:4	SEQ6703	2.4E+00
lnc-MC5R-6:1	SEQ6325	5.1E+00	lnc-RWDD2B-4:2	SEQ6704	2.4E+00
lnc-DNAJC17-1:1	SEQ6326	5.1E+00	lnc-RASL11B-9:1	SEQ6705	2.4E+00
HEIH:11	SEQ6327	5.1E+00	lnc-TBC1D5-2:1	SEQ6706	2.4E+00
MIR100HG:17	SEQ6328	5.1E+00	lnc-CEP152-1:1	SEQ6707	2.4E+00
lnc-TMEM232-4:6	SEQ6329	5.1E+00	lnc-CCDC144NL-7:1	SEQ6708	2.4E+00
lnc-TMEM99-5:3	SEQ6330	5.0E+00	lnc-PLCE1-3:1	SEQ6709	2.4E+00
lnc-AC005609.1-3:7	SEQ6331	5.0E+00	lnc-CENPV-2:1	SEQ2516	2.4E+00
lnc-SPAG16-5:1	SEQ6332	5.0E+00	lnc-ZNF397-4:1	SEQ4775	2.4E+00
lnc-CYP19A1-2:1	SEQ6333	4.9E+00	lnc-WDR41-1:1	SEQ6710	2.4E+00
lnc-TYSND1-1:6	SEQ6334	4.9E+00	lnc-AC112715.2.1-7:1	SEQ6711	2.4E+00
lnc-CDT1-1:1	SEQ2708	4.9E+00	lnc-PHAX-2:1	SEQ6712	2.4E+00
lnc-C16orf61-3:7	SEQ6335	4.9E+00	lnc-BMI1-3:3	SEQ6713	2.4E+00
lnc-IFI27L2-3:2	SEQ6336	4.9E+00	lnc-NAV3-5:5	SEQ6714	2.4E+00
lnc-CLDN25-5:1	SEQ6337	4.9E+00	lnc-FAM156A-2:1	SEQ3387	2.4E+00
lnc-UNC80-1:1	SEQ2219	4.9E+00	lnc-CAND1-3:2	SEQ6715	2.4E+00
lnc-PRKAA1-2:1	SEQ6338	4.8E+00	lnc-DAPL1-6:2	SEQ6716	2.4E+00
lnc-RPRML-3:24	SEQ6339	4.8E+00	lnc-ENAH-2:3	SEQ6717	2.4E+00
SNHG16:11	SEQ6340	4.8E+00	lnc-PLSCR3-1:1	SEQ6718	2.4E+00
lnc-MRFAP1-2:1	SEQ6341	4.8E+00	lnc-HMBS-1:4	SEQ6719	2.4E+00
lnc-CERK-2:1	SEQ6342	4.8E+00	lnc-RAPSN-1:1	SEQ6720	2.4E+00
lnc-RAB11A-2:1	SEQ6343	4.8E+00	lnc-MATR3-3:2	SEQ6721	2.4E+00
lnc-NETO2-1:1	SEQ6344	4.8E+00	lnc-GLB1L-1:1	SEQ6722	2.4E+00
lnc-LYN-9:4	SEQ6345	4.8E+00	lnc-CLEC18B-7:5	SEQ2353	2.4E+00
lnc-GATC.1-2:1	SEQ6346	4.8E+00	LINC-PINT:2	SEQ6723	2.4E+00
lnc-PTMS-1:3	SEQ6347	4.7E+00	lnc-MRPS36-2:1	SEQ6724	2.4E+00

lnc-SOD1-4:4	SEQ6348	4.7E+00	lnc-RNF187-2:1	SEQ6725	2.3E+00
lnc-HMGA1-2:9	SEQ6349	4.7E+00	lnc-PEX19-4:1	SEQ6726	2.3E+00
lnc-ZNF518B-2:3	SEQ6350	4.7E+00	lnc-SNURF-1:44	SEQ6727	2.3E+00
lnc-RAP1GAP2-5:1	SEQ6351	4.7E+00	lnc-RNF43-2:2	SEQ6728	2.3E+00
lnc-CCNB2-2:1	SEQ6352	4.6E+00	lnc-AF131216.6.1-2:1	SEQ6729	2.3E+00
lnc-LIN7A-3:1	SEQ3437	4.6E+00	lnc-SCFD2-4:1	SEQ6730	2.3E+00
lnc-UBE2B-2:1	SEQ2253	4.6E+00	CD27-AS1:4	SEQ6731	2.3E+00
lnc-MBP-13:10	SEQ6353	4.6E+00	lnc-ENSA-1:1	SEQ6732	2.3E+00
lnc-RAP1GAP2-6:2	SEQ6354	4.6E+00	lnc-RP11-439E19.8.1-2:1	SEQ6733	2.3E+00
lnc-NEDD8-MDP1-1:3	SEQ6355	4.6E+00	lnc-OGFRL1-4:1	SEQ6734	2.3E+00
lnc-MFSD4-3:3	SEQ6356	4.6E+00	lnc-C12orf10-1:3	SEQ6735	2.3E+00
lnc-PKIA-4:1	SEQ6357	4.5E+00	lnc-HIBADH-5:1	SEQ3962	2.3E+00
lnc-NRBP2-2:1	SEQ6358	4.5E+00	CRHR1-IT1:8	SEQ6736	2.3E+00
TP53TG1:8	SEQ6359	4.5E+00	lnc-BRAF-3:2	SEQ6737	2.3E+00
BCDIN3D-AS1:6	SEQ6360	4.5E+00	lnc-SIRT2-1:2	SEQ6738	2.3E+00
BCDIN3D-AS1:2	SEQ6361	4.5E+00	lnc-RAB27A-1:7	SEQ6739	2.3E+00
lnc-MMADHC-11:1	SEQ6362	4.5E+00	lnc-SNRNP35-1:2	SEQ6740	2.3E+00
lnc-RNF123-1:1	SEQ4013	4.5E+00	MSC-AS1:2	SEQ6741	2.3E+00
lnc-PRPF18-1:1	SEQ6363	4.5E+00	lnc-WSB2-1:1	SEQ6742	2.3E+00
lnc-ZNF91-4:19	SEQ6364	4.5E+00	lnc-ISCU-2:1	SEQ6743	2.3E+00
lnc-SATB1-8:6	SEQ6365	4.4E+00	lnc-KIAA0564-2:1	SEQ6744	2.3E+00
lnc-FGD4-4:1	SEQ6366	4.4E+00	CRHR1-IT1:9	SEQ6745	2.3E+00
lnc-PALLD-7:1	SEQ6367	4.4E+00	lnc-DRD5-23:2	SEQ5314	2.3E+00
lnc-KIAA1841-3:1	SEQ6368	4.4E+00	lnc-CHST10-2:1	SEQ6746	2.3E+00
lnc-AARSD1-2:6	SEQ6369	4.4E+00	lnc-GJC2-2:9	SEQ6747	2.3E+00
lnc-TRIM26-2:6	SEQ6370	4.4E+00	LINC01578:14	SEQ6748	2.3E+00
OTUD6B-AS1:8	SEQ6371	4.4E+00	lnc-ERN1-3:1	SEQ6749	2.3E+00
lnc-TRIM26-2:13	SEQ6372	4.4E+00	lnc-GRIA4-2:1	SEQ6750	2.3E+00
lnc-RGPD3-5:2	SEQ6373	4.4E+00	lnc-GMNN-3:1	SEQ6751	2.3E+00
lnc-ENSA-1:2	SEQ6374	4.4E+00	PRKCQ-AS1:9	SEQ6752	2.3E+00
LINC01278:3	SEQ6375	4.4E+00	lnc-VOPP1-5:1	SEQ6753	2.3E+00
lnc-SUGP1-1:1	SEQ6376	4.3E+00	lnc-FAM53B-1:1	SEQ6754	2.3E+00
lnc-ORMDL2-1:17	SEQ6377	4.3E+00	lnc-C12orf10-1:2	SEQ6755	2.3E+00
lnc-ZNF397-7:1	SEQ6378	4.3E+00	lnc-ERICH1-19:8	SEQ6756	2.3E+00
lnc-TUBA1C-1:3	SEQ6379	4.3E+00	lnc-PALLD-8:1	SEQ2633	2.3E+00
lnc-RERE-4:2	SEQ6380	4.3E+00	lnc-POLD3-1:1	SEQ6757	2.3E+00
lnc-PDE7A-3:1	SEQ6381	4.3E+00	lnc-ELAC1-1:1	SEQ6758	2.3E+00
lnc-UROS-2:3	SEQ6382	4.2E+00	lnc-RAB4A-2:2	SEQ6759	2.3E+00
lnc-SRP19-1:4	SEQ6383	4.2E+00	lnc-VEZT-2:2	SEQ6760	2.3E+00
ZNF571-AS1:12	SEQ6384	4.2E+00	lnc-C6orf228-4:1	SEQ6761	2.3E+00
ZNF571-AS1:13	SEQ6385	4.2E+00	LINC00294:2	SEQ6762	2.3E+00
lnc-MOB4-1:1	SEQ6386	4.2E+00	lnc-LRRC8E-2:1	SEQ6763	2.3E+00
lnc-FMR1NB-4:3	SEQ6387	4.2E+00	RNF139-AS1:1	SEQ6764	2.2E+00
lnc-NOL11-3:1	SEQ6388	4.2E+00	lnc-PRSS1-6:3	SEQ6765	2.2E+00
lnc-SMN1-1:2	SEQ6389	4.2E+00	lnc-SLC9A7-1:2	SEQ6766	2.2E+00
lnc-POLR3GL-3:2	SEQ6390	4.2E+00	lnc-UBXN6-1:3	SEQ6767	2.2E+00

lnc-PRPF39-2:1	SEQ6391	4.2E+00	lnc-ALG1-2:1	SEQ6768	2.2E+00
PAXIP1-AS1:7	SEQ6392	4.2E+00	lnc-AES-1:1	SEQ6769	2.2E+00
lnc-ACOT12-8:2	SEQ6393	4.1E+00	lnc-PLAGL2-4:1	SEQ6770	2.2E+00
lnc-ZNF582-3:2	SEQ6394	4.1E+00	GMDS-AS1:44	SEQ6771	2.2E+00
lnc-CPVL-2:1	SEQ6395	4.1E+00	lnc-PABPC4-1:3	SEQ6772	2.2E+00
lnc-TARSL2-2:1	SEQ6396	4.1E+00	LINC00294:1	SEQ6773	2.2E+00
lnc-THRAP3-1:1	SEQ6397	4.1E+00	USP46-AS1:4	SEQ6774	2.2E+00
lnc-CCNB1-1:2	SEQ6398	4.1E+00	lnc-GLTPD1-1:1	SEQ6775	2.2E+00
lnc-TIRAP-2:3	SEQ6399	4.1E+00	lnc-HEBP2-1:1	SEQ6776	2.2E+00
lnc-ZNF583-4:3	SEQ6400	4.1E+00	lnc-VSTM5-1:12	SEQ6777	2.2E+00
lnc-FAM200B-1:9	SEQ6401	4.0E+00	lnc-ZNF595-1:1	SEQ6778	2.2E+00
lnc-ANKUB1-2:2	SEQ6402	4.0E+00	lnc-URGCP-2:8	SEQ5108	2.2E+00
lnc-NKAIN3-3:4	SEQ6403	4.0E+00	lnc-SERGEF-3:2	SEQ6779	2.2E+00
lnc-SNURF-1:10	SEQ6404	4.0E+00	lnc-APBB2-2:4	SEQ6780	2.2E+00
MEG3:11	SEQ6405	4.0E+00	lnc-C19orf71-1:1	SEQ6781	2.2E+00
lnc-GSPT2-4:1	SEQ6406	4.0E+00	lnc-VEZF1-1:3	SEQ6782	2.2E+00
PTOV1-AS1:4	SEQ6407	3.9E+00	lnc-COMMD1-1:1	SEQ2294	2.2E+00
lnc-ZZZ3-1:1	SEQ6408	3.9E+00	lnc-SECISBP2L-3:1	SEQ6783	2.2E+00
lnc-CHRNA5-4:2	SEQ6409	3.9E+00	lnc-TAOK3-1:5	SEQ6784	2.2E+00
LINC01024:6	SEQ6410	3.9E+00	lnc-RWDD1-1:1	SEQ6785	2.2E+00
PAXIP1-AS1:1	SEQ6411	3.9E+00	lnc-TDRKH-1:1	SEQ6786	2.2E+00
lnc-CTDSP2-2:11	SEQ6412	3.9E+00	lnc-SNAPIN-2:2	SEQ6787	2.2E+00
lnc-ITGAL-2:2	SEQ6413	3.9E+00	lnc-C1orf132-1:7	SEQ6788	2.2E+00
lnc-MACROD2-2:1	SEQ6414	3.9E+00	lnc-ARVCF-4:8	SEQ6789	2.2E+00
lnc-RABGAP1L-1:1	SEQ6415	3.9E+00	lnc-COLEC10-1:4	SEQ6790	2.2E+00
lnc-CEP192-2:3	SEQ6416	3.9E+00	lnc-CCNL2-3:1	SEQ6791	2.2E+00
lnc-PRR18-1:1	SEQ6417	3.9E+00	lnc-BCL7B-1:5	SEQ6792	2.2E+00
lnc-CTD-2228K2.5.1-1:2	SEQ6418	3.9E+00	lnc-METTL2B-3:16	SEQ6793	2.2E+00
lnc-ARSG-1:2	SEQ6419	3.8E+00	lnc-FAM72B-12:1	SEQ6794	2.2E+00
SNHG8:11	SEQ6420	3.8E+00	lnc-SLC39A3-2:1	SEQ6795	2.2E+00
lnc-AL592284.1-1:19	SEQ6421	3.8E+00	lnc-MSH3-2:1	SEQ6796	2.2E+00
lnc-C1QL3-1:1	SEQ6422	3.8E+00	lnc-OTP-4:2	SEQ6797	2.2E+00
lnc-HELLS-2:1	SEQ6423	3.8E+00	lnc-SNURF-9:1	SEQ6798	2.2E+00
lnc-STXBP4-1:1	SEQ6424	3.8E+00	lnc-DCHS2-1:1	SEQ6799	2.1E+00
lnc-DOM3Z-3:6	SEQ6425	3.8E+00	EIF3J-AS1:3	SEQ6800	2.1E+00
lnc-EML6-5:3	SEQ6426	3.8E+00	lnc-VPREB1-7:14	SEQ6801	2.1E+00
lnc-CLK4-2:2	SEQ6427	3.8E+00	lnc-CLASP2-3:1	SEQ6802	2.1E+00
lnc-AC084851.1-9:1	SEQ6428	3.8E+00	lnc-BICD1-1:1	SEQ2413	2.1E+00
lnc-POM121L2-2:2	SEQ2341	3.8E+00	lnc-NIPA1-1:3	SEQ6803	2.1E+00
PAXBP1-AS1:4	SEQ6429	3.8E+00	lnc-MBTPS1-1:1	SEQ6804	2.1E+00
PAXBP1-AS1:3	SEQ6430	3.8E+00	lnc-SLC35G3-1:4	SEQ6805	2.1E+00
TRAF3IP2-AS1:4	SEQ6431	3.8E+00	lnc-STK16-4:1	SEQ6806	2.1E+00
lnc-KAZALD1-2:3	SEQ6432	3.8E+00	TTC28-AS1:2	SEQ6807	2.1E+00
lnc-AL669831.1-3:33	SEQ6433	3.8E+00	lnc-ECE1-2:2	SEQ6808	2.1E+00
lnc-SLC6A18-2:2	SEQ6434	3.8E+00	lnc-DNA2-1:1	SEQ6809	2.1E+00
lnc-VPS72-2:2	SEQ6435	3.8E+00	lnc-TCF3-2:2	SEQ6810	2.1E+00

LINC01278:1	SEQ6436	3.7E+00	lnc-POLR2I-1:1	SEQ6811	2.1E+00
lnc-BDH1-5:3	SEQ6437	3.7E+00	lnc-GRM1-1:4	SEQ6812	2.1E+00
NPTN-IT1:2	SEQ6438	3.7E+00	lnc-ADAMTS18-1:1	SEQ6813	2.1E+00
lnc-DAXX-2:1	SEQ6439	3.7E+00	lnc-CCDC56-2:1	SEQ6814	2.1E+00
lnc-UBE2E3-2:12	SEQ6440	3.7E+00	lnc-SLC30A10-7:1	SEQ6815	2.1E+00
lnc-MINOS1-2:2	SEQ6441	3.7E+00	lnc-AL627171.1-1:1	SEQ6816	2.1E+00
lnc-POM121C-1:3	SEQ6442	3.7E+00	lnc-ARL6IP4-1:6	SEQ6817	2.1E+00
WAC-AS1:2	SEQ6443	3.7E+00	lnc-DNAJC5-1:3	SEQ5372	2.1E+00
lnc-RGPD8-1:1	SEQ6444	3.7E+00	lnc-SMYD5-1:4	SEQ6818	2.1E+00
lnc-SLC4A5-5:4	SEQ6445	3.7E+00	lnc-NAP1L5-3:1	SEQ6819	2.1E+00
lnc-GABBR1-1:2	SEQ2290	3.7E+00	lnc-APBA2-1:8	SEQ6820	2.1E+00
lnc-AC006465.3.1-1:13	SEQ6446	3.7E+00	lnc-WTAP-2:2	SEQ6821	2.1E+00
lnc-TRAPPC11-4:1	SEQ6447	3.7E+00	MIF-AS1:8	SEQ2383	2.1E+00
lnc-UROS-2:1	SEQ6448	3.7E+00	lnc-NCAPD3-2:1	SEQ6822	2.1E+00
CD27-AS1:5	SEQ6449	3.7E+00	lnc-ZBTB8OS-3:1	SEQ6823	2.1E+00
lnc-LXN-1:3	SEQ6450	3.7E+00	lnc-EXTL3-6:7	SEQ6824	2.1E+00
lnc-RASL11B-10:1	SEQ6451	3.6E+00	lnc-MKKS-4:1	SEQ6825	2.1E+00
lnc-DLG2-3:1	SEQ6452	3.6E+00	lnc-CWH43-3:1	SEQ6826	2.1E+00
lnc-NECAP1-1:2	SEQ6453	3.6E+00	lnc-FAM75A4-3:3	SEQ6827	2.1E+00
lnc-EDEM1-1:1	SEQ6454	3.6E+00	lnc-PKHD1L1-2:11	SEQ6828	2.1E+00
lnc-STX2-8:1	SEQ6455	3.6E+00	lnc-TUBB3-3:1	SEQ6829	2.1E+00
lnc-SLC35F5-14:11	SEQ6456	3.6E+00	lnc-ARHGAP15-2:3	SEQ2483	2.1E+00
lnc-EPB41L5-1:1	SEQ6457	3.6E+00	lnc-NAB1-2:2	SEQ6830	2.1E+00
lnc-LAMTOR1-1:1	SEQ6458	3.6E+00	lnc-KCNT1-6:1	SEQ2699	2.1E+00
lnc-KBTBD2-2:2	SEQ6459	3.5E+00	lnc-GRSF1-1:1	SEQ4817	2.1E+00
lnc-ARC-1:5	SEQ6460	3.5E+00	lnc-LYRM7-3:1	SEQ6831	2.1E+00
lnc-SON-3:2	SEQ6461	3.5E+00	lnc-RNF111-2:1	SEQ6832	2.1E+00
lnc-CCNL2-3:2	SEQ6462	3.5E+00	lnc-DCTN5-1:2	SEQ6833	2.1E+00
lnc-RP11-1035H13.3.1-1:2	SEQ6463	3.5E+00	lnc-C3orf38-3:3	SEQ6834	2.1E+00
lnc-LPCAT1-3:13	SEQ6464	3.5E+00	lnc-PXDC1-12:3	SEQ4641	2.1E+00
lnc-RP11-96O20.4.1-1:1	SEQ6465	3.5E+00	lnc-EGLN2-1:1	SEQ6835	2.1E+00
lnc-THAP4-3:2	SEQ6466	3.5E+00	lnc-GRID2IP-1:2	SEQ6836	2.1E+00
lnc-SFXN5-1:4	SEQ6467	3.5E+00	lnc-RP11-977G19.10.1-1:3	SEQ6837	2.1E+00
lnc-GOLT1B-1:3	SEQ6468	3.5E+00	lnc-THAP4-4:1	SEQ6838	2.1E+00
lnc-SUGT1-3:1	SEQ0131	3.5E+00	lnc-AL139333.1-1:1	SEQ6839	2.1E+00
ATP6V0E2-AS1:5	SEQ6469	3.5E+00	lnc-UXS1-4:7	SEQ6840	2.1E+00
lnc-FAM71E1-1:1	SEQ6470	3.4E+00	lnc-ZNF746-3:4	SEQ6841	2.1E+00
lnc-ZNF8-4:3	SEQ6471	3.4E+00	lnc-FAM213A-1:1	SEQ6842	2.1E+00
LINC00936:2	SEQ6472	3.4E+00	lnc-RP11-219B4.5.1-2:1	SEQ6843	2.1E+00
DANCR:2	SEQ6473	3.4E+00	lnc-PRR3-1:2	SEQ6844	2.1E+00
lnc-DDX31-3:1	SEQ6474	3.4E+00	lnc-IL17RC-3:3	SEQ6845	2.1E+00
lnc-TKT-1:9	SEQ6475	3.4E+00	lnc-C11orf48-1:2	SEQ6846	2.1E+00
lnc-EFCAB8-1:2	SEQ6476	3.4E+00	lnc-FRG1B-2:3	SEQ6847	2.1E+00
lnc-RSPH10B2-1:3	SEQ2580	3.4E+00	lnc-SNAP47-2:1	SEQ5143	2.1E+00
lnc-NTRK1-4:1	SEQ6477	3.4E+00	lnc-AKT3-6:1	SEQ6848	2.1E+00
lnc-RPL3-2:3	SEQ6478	3.4E+00	lnc-ITGB3BP-5:5	SEQ6849	2.1E+00

lnc-CCL28-2:1	SEQ6479	3.4E+00	lnc-AL049840.1-2:1	SEQ6850	2.1E+00
lnc-ARHGEF35-2:1	SEQ6480	3.4E+00	lnc-HIGD1C-1:7	SEQ6851	2.0E+00
lnc-IL12RB2-3:1	SEQ6481	3.4E+00	lnc-CNP-1:1	SEQ3058	2.0E+00
lnc-BDH1-5:2	SEQ6482	3.4E+00	lnc-PRPF31-2:1	SEQ6852	2.0E+00
lnc-TRIM38-1:1	SEQ6483	3.4E+00	lnc-BX255923.1-5:1	SEQ6853	2.0E+00
lnc-ATPAF2-2:5	SEQ6484	3.4E+00	lnc-GUCY1A2-1:1	SEQ6854	2.0E+00
lnc-HIGD1C-1:5	SEQ6485	3.4E+00	LINC00674:12	SEQ6855	2.0E+00
lnc-RP11-645C24.1.1-3:8	SEQ6486	3.3E+00	lnc-ARMCX6-3:1	SEQ6856	2.0E+00
lnc-TCTA-1:1	SEQ4966	3.3E+00	lnc-ODF4-4:1	SEQ6857	2.0E+00
MAPKAPK5-AS1:8	SEQ6487	3.3E+00	lnc-DDX19B-2:1	SEQ6858	2.0E+00
lnc-TMSB10-1:1	SEQ6488	3.3E+00	lnc-CLNS1A-3:1	SEQ6859	2.0E+00
lnc-AES-1:3	SEQ6489	3.3E+00	lnc-PPIL1-2:2	SEQ6860	2.0E+00
lnc-GNAI2-1:12	SEQ6490	3.3E+00	lnc-PSMA3-1:1	SEQ6861	2.0E+00
lnc-ATP6V1C1-9:4	SEQ3802	3.3E+00	lnc-TCEANC2-2:2	SEQ6862	2.0E+00
lnc-GLTSCR2-2:6	SEQ6491	3.3E+00	LINC01123:5	SEQ6863	2.0E+00
lnc-IL9R-1:6	SEQ6492	3.3E+00	lnc-CLPB-1:1	SEQ6864	2.0E+00
lnc-ZEB2-1:9	SEQ6493	3.3E+00	lnc-RNMT-1:1	SEQ6865	2.0E+00
lnc-AL669831.1-3:10	SEQ6494	3.3E+00	lnc-CUEDC1-2:1	SEQ6866	2.0E+00
lnc-GRIK2-5:1	SEQ6495	3.3E+00	lnc-NAB1-2:3	SEQ6867	2.0E+00
lnc-OTP-5:1	SEQ6496	3.3E+00	lnc-MUC5B-1:1	SEQ5724	2.0E+00
lnc-ST6GALNAC6-1:4	SEQ6497	3.3E+00	lnc-BDH1-5:9	SEQ6868	2.0E+00
lnc-BLZF1-2:4	SEQ6498	3.3E+00	lnc-CTDSP2-2:6	SEQ6869	2.0E+00
lnc-AL669831.1-3:4	SEQ6499	3.2E+00	lnc-LRRC40-3:1	SEQ6870	2.0E+00
lnc-CNR2-1:7	SEQ6500	3.2E+00	lnc-C5orf32-3:1	SEQ6871	2.0E+00
lnc-SRPRB-1:1	SEQ2427	3.2E+00	lnc-RPP38-5:1	SEQ5046	2.0E+00
lnc-NETO2-4:1	SEQ6501	3.2E+00	lnc-JAG1-6:1	SEQ2547	2.0E+00
lnc-RP11-796G6.2.1-4:7	SEQ6502	3.2E+00	lnc-FGF14-1:1	SEQ6872	2.0E+00
lnc-SLC25A16-1:1	SEQ6503	3.2E+00	lnc-ZNF8-4:1	SEQ6873	2.0E+00
lnc-FAM165B-1:2	SEQ6504	3.2E+00	lnc-CPLX1-2:11	SEQ6874	2.0E+00
lnc-NUTF2-1:1	SEQ6505	3.2E+00	lnc-KRT80-3:1	SEQ3433	2.0E+00
lnc-CTDSP2-2:9	SEQ6506	3.2E+00	lnc-CPSF3-2:1	SEQ6875	2.0E+00
lnc-HNRNPA1L2-2:4	SEQ6507	3.2E+00	lnc-PROKR2-1:1	SEQ6876	2.0E+00
lnc-NDUFA7-1:2	SEQ6508	3.2E+00	lnc-POLD1-2:1	SEQ6877	2.0E+00
lnc-TRAPPC6B-3:1	SEQ6509	3.2E+00	lnc-C16orf52-1:1	SEQ6878	2.0E+00

The correlation between 31 lncRNAs identified in the invention and neurocognitive MMSE (Mini-Mental State Examination) test or cerebrospinal fluid CSF biomarkers Abeta and Tau or phosphorylated tau or age were examined. The result is shown in Table 13.

Table 13. Correlation between blood lncRNAs and neurocognitive MMSE test or cerebrospinal fluid CSF biomarkers Abeta and Tau or phosphorylated tau or age.

	ab42	tau	ptau	MMSE	age
n	70	70	70	84	137

ab42	r	1.000	-0.207	-.322**	0.067	-0.044
tau	r	-0.207	1.000	.853**	0.028	0.117
FTX_19	r	.266*	0.000	-0.076	-0.032	-0.093
LEF1_AS1_1	r	-0.121	0.013	-0.016	0.089	-.364**
lnc_ADAD1_3_1	r	.302*	0.031	-0.050	-0.089	-0.124
lnc_ANKRD36_1_4	r	-0.053	-0.191	-0.138	0.035	-.222**
lnc_ATP6AP2_13_1	r	-0.218	0.113	0.196	-.216*	0.151
lnc_CA6_8_1	r	0.003	-0.067	-0.030	.220*	-0.133
lnc_CA6_8_2	r	0.080	0.035	0.047	.351**	-0.082
lnc_CDIPT_2_1	r	-0.058	-0.086	0.051	.255*	-0.073
lnc_CGREF1_2_1	r	.494**	-0.089	-0.177	-0.099	-0.156
lnc_EVX1_15_1	r	.255*	0.005	-0.027	0.193	-0.078
lnc_IL31RA_1_1	r	0.231	-0.053	-0.077	0.164	-.360**
lnc_KIF14_1_2	r	.259*	0.075	-0.021	0.035	-0.015
lnc_NEMF_1_4	r	-.325**	0.089	0.168	0.096	.213*
lnc_NID1_4_4	r	.305*	0.118	0.053	0.038	-0.130
lnc_OCM_3_4	r	0.088	-0.087	-0.128	0.206	-.308**
lnc_PCP4L1_3_2	r	.342**	0.072	-0.035	-0.015	-0.167
lnc_PDGFA_6_2	r	-.290*	0.130	0.204	0.103	.179*
lnc_SLC35E3_8_2	r	.386**	0.002	-0.069	-0.084	-0.106
lnc_SOCS6_10_1	r	.321**	-0.135	-0.209	-0.160	-0.069
lnc_STX10_2_1	r	-.276*	0.141	0.218	0.079	-0.002
lnc_UQCC3_2_1	r	-.356**	-0.003	0.086	0.161	0.114
lnc_USP47_2_1	r	.237*	-0.047	-0.042	0.210	-0.080
lnc_ZCCHC13_4_1	r	.329**	0.081	-0.019	-0.043	-0.120
lnc_ZNF516_14_1	r	.270*	0.025	-0.060	-0.003	-0.097
MYLK_AS1_13	r	.419**	-0.031	-0.183	0.031	-.247**
OIP5_AS1_36	r	.316**	-0.075	-0.110	0.079	-.227**
PCBP1_AS1_302	r	.251*	0.048	-0.058	-0.152	0.026
TCONS_00017372	r	-.306**	0.083	0.118	0.038	.182*
TTC21B_AS1_2	r	0.193	0.005	0.027	-0.001	.194*
lnc-FOXD4L5-16:1	r	-.341**	0.120	0.174	0.100	0.059
lnc-ZC3H12B-11:1	r	.302*	-0.094	-0.227	-0.045	-.235**

In all lncRNAs examined, except ANKRD36-1-4, the correlation with age still remained significant for subject groups after adjusting with age by generalized linear model, indicating that the differential expression of selected lncRNAs when comparing subject groups is not due

simply to an age effect but to the disease effect, highlighting their relevance for diagnosis and/or therapeutic applications for the respective dementia types.

To further select the best candidates of lncRNAs, fold change (FC) and AUC were calculated for each lncRNA and for each tested condition. lncRNA candidates were selected when differential expression was determined based on an appropriate fold-change (FC) such as a FC > 1.2 (or < 0.8) and/or an appropriate AUC such as AUC > 0.65 (or <0.35) when comparing two groups. Random Forest algorithm (Breimann 2001, Breiman and Cutler 2001) was used to build the model and also to select the top ranked lncRNAs. A predictive model based on the combination of the list of top ranked candidates comprising at least 2 lncRNAs enables to predict the disease with an accuracy of ≥ 65% and up to 100%.

The predictive modelling based on the random forest algorithm to discriminate between mild cognitive impairment (MCI) patient and healthy control populations when using the total of the 844 lncRNAs measurable in whole blood samples and having an AUC ≥ 0.8 (or ≤0.2) described in the Table 11 enabled to show that the AUC in function of the number of lncRNAs reached a plateau with the following 2 lncRNAs. These 2 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (Mild cognitive impairment patient and healthy control populations) with an AUC value = 1, an accuracy = 100%, sensitivity = 100% and specificity = 100%.

lncRNA	Rank
TCONS_00035093	1
lnc-OCM-3:4	2

The predictive modelling based on the random forest algorithm to discriminate between mild AD patient and healthy control populations when using the total of the 500 lncRNAs measurable in whole blood and having an AUC ≥ 0.7 (or ≤0.3) described in the Table 11 , enabled to show that the AUC in function of the number of lncRNAs reached a plateau with the following 7 lncRNAs. These 7 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (mild AD patient and healthy control populations) with an AUC value = 0.954, an accuracy = 91%, sensitivity = 90% and specificity = 91%.

lncRNA	Rank
lnc-KIF14-1:2	1
PCBP1-AS1:302	2
lnc-CA6-8:1	3
NEAT1:22	4
lnc-CA6-8:2	5

STARD7-AS1:5	6
lnc-IL31RA-1:1	7

The predictive modelling based on the random forest algorithm to discriminate between moderate-to-severe AD patient and healthy control populations when using the total of the 605 lncRNAs measurable in whole blood and having an AUC ≥ 0.65 (or ≤0.35) described in the Table 11, enabled to show that the AUC in function of the number of lncRNAs reached a plateau with the following 6 lncRNAs. These 6 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (moderate to severe AD patient and healthy control populations) with an AUC value = 0.922, an accuracy = 83%, sensitivity = 70% and specificity = 91%.

lncRNA	Rank
lnc-CA6-8:2	1
lnc-ANKRD36-1:4	2
lnc-ATP6AP2-13:1	3
lnc-SOCS6-10:1	4
lnc-CDIPT-2:1	5
lnc-USP47-2:1	6

The predictive modelling based on the random forest algorithm to discriminate between all AD patient (mild+moderate-to-severe) and healthy control populations when using the total of the 1124 lncRNAs measurable in whole blood and having an AUC ≥ 0.65 (or ≤0.35) described in the Table 11, enabled to show that the AUC in function of the number of lncRNAs reached a plateau with the following 7 lncRNAs. These 7 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (AD patient and healthy control populations) with an AUC value = 0.954, an accuracy = 91%, sensitivity = 88% and specificity = 92%.

lncRNA	Rank
lnc-CA6-8:2	1
lnc-CA6-8:1	2
RBM26-AS1:1	3
PCBP1-AS1:302	4
MIR181A2HG:1	5
TTC21B-AS1:2	6
lnc-SOCS6-10:1	7

The predictive modelling based on the random forest algorithm to discriminate between dementia with Levy bodies patient and healthy control populations when using the total of the

1352 lncRNAs measurable in whole blood and having an AUC ≥ 0.8 (or ≤ 0.2) described in the Table 11, enabled to show that the AUC in function of the number of lncRNA reached a plateau with the following 2 lncRNAs. These 2 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (Dementia with Levy bodies patient and healthy control populations) with an AUC value = 1, an accuracy = 100%, sensitivity = 100% and specificity = 100%.

lncRNA	**Rank**
lnc-OCM-3:4	1
lnc-SLC35E3-8:1	2

The predictive modelling based on the random forest algorithm to discriminate between frontotemporal dementia patient and healthy control populations when using the total of the 1041 lncRNAs measurable in whole blood and having an AUC ≥ 0.8 (or ≤ 0.2) described in the Table 4, enabled to show that the AUC in function of the number of lncRNA reached a plateau with the following 3 lncRNAs. These 3 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (Frontotemporal dementia patient and healthy control populations) with an AUC value = 1, an accuracy = 100%, sensitivity = 100% and specificity = 100%.

lncRNA	Rank
lnc-ZCCHC13-4:1	1
PCBP1-AS1:302	2
lnc-NEMF-1:4	3

The predictive modelling based on the random forest algorithm to discriminate between All AD patients' population and NAD (FTD+DLB) patients populations when using the total of the 6 lncRNAs measurable in whole blood and having an AUC ≥ 0.65 (or ≤ 0.35) described in the Tables 11, 12, enabled to show that the AUC in function of the number of lncRNA reached a plateau with the following 6 lncRNAs. These X6 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (AD populations and population suffering other dementia types) with an AUC value = 0,804, an accuracy = 79%, sensitivity = 56% and specificity = 91%.

lncRNA	rank
lnc-STAT3-1:2	1
lnc-NEMF-1:4	2
lnc-EPN2-3:2	3
lnc-SLC25A39-2:1	4
lnc-ARF6-1:1	5

lnc-CCNYL1-2:1	6

The predictive modelling based on the random forest algorithm to discriminate between All AD patients' population and DLB, FTD patients + healthy control populations when using the total of the 5 lncRNAs measurable in whole blood and having an AUC ≥ 0.65 (or ≤ 0.35) described in the Table 4, enabled to show that the AUC in function of the number of lncRNAs reached a plateau with the following 5 lncRNAs. These 5 lncRNAs were used to construct the model. The results show that this lncRNA signature enabled a discrimination between the 2 populations (AD population and population either suffering other dementia type or having normal cognitive status) with an AUC value = 0,811, an accuracy = 72%, sensitivity = 61% and specificity = 81%.

lncRNA	rank
ANKRD44-IT1:1	1
APOBEC3B-AS1:2	2
ADAMTSL4-AS1:2	3
AGAP2-AS1:2	4
A1BG-AS1:14	5

As for diagnosis, for differential diagnosis, several other lncRNAs panels were identified such as those listed below comprising at least 3 lncRNAs from Tables 11, 12 and enabling to detect each dementia type specifically:

Panel Example 1	Panel Example 2	Panel Example 3	Panel Example 4
LEF1-AS1:1	lnc-CGREF1-2:1	TCONS_00011994	OIP5-AS1:36
PCBP1-AS1:302	PSMB8-AS1:14	lnc-EVX1-15:1	MYLK-AS1:13
lnc-CA6-8:2	lnc-STX10-2:1	lnc-REC8-2:1	lnc-PCP4L1-3:2
	lnc-TCFL5-6:1		
	ZC3H12B-11:1		

The signature of the following 11 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between HC group and all other groups (MCI, all AD, DLB, FTD) with AUC=0.963, accuracy=93.4%, sensitivity=65% and specificity=98.3%.

lncRNA	Rank
PCBP1-AS1:302	1
STARD7-AS1:5	2
lnc-NID1-4:4	3

RBM26-AS1:1	4
LEF1-AS1:1	5
lnc-CA6-8:1	6
lnc-CA6-8:2	7
lnc-OCM-3:4	8
lnc-AFG1L-7:1	9
lnc-LASP1-5:1	10
lnc-GCGR-1:2	11

The signature of the following 7 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between HC group and patients with mild AD, with with accuracy=90,7%, sensitivity=90% and specificity=91.2%.

lncRNA	Rank
lnc-KIF14-1:2	1
PCBP1-AS1:302	2
lnc-CA6-8:1	3
NEAT1:22	4
lnc-CA6-8:2	5
STARD7-AS1:5	6
lnc-IL31RA-1:1	7

The signature of the following 7 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between HC group and patients with moderate to severe AD with accuracy=83.3%, sensitivity=70% and specificity=91.2%.

lnc-CA6-8:2	1
lnc-ANKRD36-1:4	2
lnc-ATP6AP2-13:1	3
lnc-SOCS6-10:1	4
lnc-CDIPT-2:1	5
lnc-USP47-2:1	6
lnc-UXS1-3:1	7

The signature of the following 3 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between HC group and patients with dementia with Lewy bodies with accuracy=100%, sensitivity=100% and specificity=100%.

lnc-OCM-3:4	1

lnc-SLC35E3-8:1	2
LINC-PINT:11	3

The signature of the following 2 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between HC group and patients with frontotemporal dementia with accuracy=100%, sensitivity=100% and specificity=100%.

lnc-ZCCHC13-4:1	1
PCBP1-AS1:302	2

The signature of the following 5 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between AD patients (with mild AD patients and moderate-to severe AD) and non-AD dementia group (FTD+DLB) with accuracy=76.5%, sensitivity=55.9% and specificity=86.8%.

lncRNA	rank
lnc-JUNB-1:1	1
lnc-RARB-4:1	2
lnc-ZNF284-1:1	3
TCONS_00035093	4
lnc-TELO2-3:3	5

The signature of the following 5 top ranked lncRNAs expressed in whole blood (Paxgene RNA samples) enabled an excellent discrimination between AD patients (with mild AD patients and moderate-to severe AD) and non-AD dementia group (FTD+DLB) with accuracy=82.4%, sensitivity=61.8% and specificity=92.6%.

lncRNA	Rank
lnc-CGREF1-2:1	1
PSMB8-AS1:14	2
lnc-STX10-2:1	3
lnc-TCFL5-6:1	4
lnc-ZC3H12B-11:1	5

MATERIAL AND METHODS

To identify lncRNAs in brain, serum, plasma, whole blood or other samples of human subjects, total RNA was first extracted and sequencing libraries were prepared by removal of ribosomic RNA (RiboZero TruSeq library preparation kit, Illumina Inc. San Diego, USA) and sequenced on Illumina NextSeq500 with 2x75 bp read length.

lncRNAs were also measured by qPCR using specific primers. For this, total RNA was first extracted, reverse transcription and real time PCR using specific primers were performed. Using FiMAP (also called Quantamatrix QMAP platform and also a new fully automatized version QMX), a proprietary platform based on hybridization of PCR products on coated microdiscs with complementary oligonucleotide coupled to detection probes. Total RNA was extracted followed by reverse transcription and PCR step allowing multiplexing of several targets using specific primers to the lncRNAs.

To show the efficacy of FiMAP as a multiplexed platform capable to quantify lncRNAs, plasma samples have been tested using NGS, qPCR, Celemics and FiMAP. Most of the lncRNAs showed that they are well quantified since the dilutions of the input RNAs are concentration dependent manner measured on QMAP, and that for lncRNA 20321 very equivalent results were obtained when using the reference qPCR method. Quantification was therefore performed on the FiMAP platform using coded microdiscs specific of each lncRNA.

Patient population and samples

Brain tissue biopsies: postmortem brain medio-temporal cortex tissue samples and the blood samples other than from the below-mentioned prospective studies, as well peripheral organ biopsies: lung, ovary, colon, prostate, breast, liver, bladder, kidney, skin, heart, muscle) were from diverse European hospitals and Firalis biobanks.

Body fluid samples: Body fluid samples were from healthy volunteers (HV), donors at the “Etablissement Français du Sang” (EFS) of Mulhouse, France, and from cognitively intact healthy control subjects and from patients with mild cognitive impairment or with different stages of Alzheimer’s disease (AD) or with other dementia types recruited, according to the protocols of European hospitals accepted by country ethic committees, and in the Amoneta Diagnostics sponsored prospective studies registered to the Agence Nationale de Sécurité du Médicament et des Produits de Santé (ANSM) such as under the ID RCB: 2015-A00118-41 on Jan 22, 2015, the ID RCB: 2016-A200227-44 on Feb 4, 2016. Whole blood samples were collected in Paxgene RNA tubes. Serum or plasma samples were prepared from blood samples collected in lithium-heparin tubes or EDTA tubes and CSF, urine, saliva and tears were collected using polypropylene tubes.

Results shown in tables and drawings from the invention are those obtained in 10 postmortem brain samples (5AD, 5 HC), 24 serum samples (12 AD and 12 HC), 12 plasma samples (6 AD and 6 HC) and 139 samples from the following subject groups:

	Gender		
Subject Group	Male	Female	Total
HC	6	14	20
MCI	8	7	15
Mild AD	15	19	34

Mod-SevAD	11	23	34
DLB	5	10	15
FTD	2	17	19
Other diseases	2	0	2
Total	49	90	139

Method for lncRNAs

Samples sequencing

Ribonucleic acid (RNA) extraction is performed starting from 1.5ml of serum, using Norgen Serum/plasma extraction and RNA Clean-Up and Concentration Micro-Elute Kits according to the manufacturer's instructions. Sequencing libraries are prepared from the total amount of extracted RNA, using the Illumina TruSeq stranded total RNA library preparation kit combined with the human/mouse/rat RiboZero rRNA removal kit (Illumina Inc. San Diego, USA, C). All steps are performed with the low-throughput protocol and according to the manufacturer's instructions, with no fragmentation step. Briefly, cytoplasmic ribosomal RNA (rRNA) are hybridized to biotinylated target-specific oligos and removed using streptavidin coated magnetic beads. rRNA depleted RNA samples are then reverse transcribed into complementary deoxyribonucleic acid (cDNA). To ensure strand specificity, single stranded cDNA is first synthetized using Super-Script II reverse transcriptase (Invitrogen) and random primers in the presence of Actinomycin D, and then converted to double stranded cDNA with the second strand marking mix that incorporates dUTP in place of dTTP. Resulting blunt ended cDNA are purified using AMPure XP magnetic beads. After a 3'end adenylation step, Illumina's adapters ligation is performed. So, obtained singled indexed libraries are washed twice using AMPure XP beads to remove excess adapters and enriched by PCR (15 cycles). PCR products are purified with a final AMPure XP beads wash and sequencing ready libraries are eluted in 30µl of resuspension buffer.

For quality control, 1µl of each library is run on the Agilent Technologies 2100 Bioanalyzer using a DNA 1000 chip according to the manufacturer's recommendations. Absence of adapter dimers is checked and the average library size is determined by a region table. Libraries are quantified on Qubit 2.0 using Qubit dsDNA High Sensitivity assay kit (Invitrogen). Library size previously determined on the Bioanalyzer is used to calculate molar concentrations from mass concentrations. All libraries are sequenced with the Illumina NextSeq500 (2x75bp).

Bioinformatic analysis

lncRNA based on the Homo sapiens hg38 genome

RNA-seq data analysis is performed using Partek Flow (Partek Inc., St Louis, MO, USA build 6). The pre-alignment QA/QC module of Partek Flow is used to visualize the read quality of the FASTQ files. All reads are examined. The raw FASTQ files are trimmed at the 3' end in

function of their quality score (Phred score). The parameters used are an end minimum quality level of 30 and a minimum trimmed read length of 50. Unaligned reads are mapped using the Homo sapiens hg38 genome. This mapping is done using the software STAR version 2.5.3 (Dobin A. et al., 2013). STAR: ultrafast universal RNA-seq aligner. Bioinforma. Oxf. Engl. 29, 15–21). The default parameters are used. The post-alignment QC module of Partek Flow was used to visualize the average base quality score per position as well as the mapping quality per alignment. The mapped reads were quantified using the GTF file with the patented lncRNA annotation for quantification using the Partek Expectation/Maximization (E/M) algorithm (Xing Y. et al, 2006). An expectation-maximization algorithm for probabilistic reconstructions of full-length isoforms from splice graphs. Nucleic Acids Res. 34, 3150–3160). The default parameters are used. The transcripts where their medians are under the median read density in intergenic regions are discarded for the next steps of the analysis. The transcript counts were normalized by CPM (counts per million). Only transcripts showing high expression (CPM ≥ 5) in at least half the samples of one group are considered.

Novel lncRNAs discovery

The novel discovery was performed by using UClncR pipeline version 1.1.1 (Sun Z. et al., Scientific Reports, 7(1): 14196, 2017). In this pipeline, StringTie version 1.3.4d (Pertea M. et al., Nat Biotechnol, 33 (3): 290–295, 2015) was used for the reconstruction.

The “cuffcompare” program version 2.2.1 (C. Trapnell et al., ‘Nat Protoc, 7 (3): 562–578, 2012) was used to compare the assembled transcripts to the reference annotated GTF file (Gencode 27 and LNCipedia 5) and to generate a new GTF file with all transcripts from 9 samples for further analysis.

Filtering was done on Transfrag class codes generated by cuffcompare, transcript length, number of exons and protein coding potential. Firstly, the transcripts with code ‘i’, ‘j’, ‘o’, ‘u’, ‘x’ and ‘.’ were extracted, all of which could potentially include novel lncRNAs. The ‘i’ category, for example, could contain the lncRNAs entirely within the intron of known genes. Similarly, the ‘j’ category could be long non-coding isoforms of known genes. The ‘o’ category could include novel lncRNAs having generic exonic overlap with known transcripts. The ‘u’ category could be long intergenic non-coding RNAs (lincRNAs). The ‘x’ category could contain novel lncRNAs on the opposite strand of reference genes. The ‘.’ category may be sequences with multiple classifications. Following this, only the transcripts with a length of ≥ 200nt and with at least 2 exons were kept for the next step. CPAT (Coding-Potential Assessment Tool, L. Wang L., et al., Nucleic Acids Res, 41 (6): e74,2013.) is used for the evaluation the non-coding potential. The transcripts with CPAT score < 0.3 were considered as non-coding. A new GTF file was generated with the final list of selected novel lncRNAs.

Fastq files of GSE45326 were downloaded from ArrayExpress [9]. The dataset includes RNA-seq data of 12 normal human tissues. The paired-end sequencing was performed on ribominus total RNA library. Reads alignment was performed as described before. The quantification was done with the novel lncRNA annotation using the Partek E/M algorithm.

Statistical analysis and predictive modelling

To determine differentially expressed lncRNA, a statistical analysis is performed using Wilcoxon Mann-Whitney parametric test to compare 2 groups of subjects. A lncRNA with a p value ≤ 0.05 is considered as differentially expressed. Anova test is used for comparison of more than 2 subject groups.

In order to build classification models for the 2 classifications, the Classification for MicroArrays (CMA) package of R (Slawski M, Daumer M, Boulesteix AL. CMA: a comprehensive Bioconductor package for supervised classification with high dimensional data. BMC Bioinformatics 2008, 9:439) with a leave-one-out cross-validation has been used.

The algorithms used for this predictive modelling are (a) random forest, (b) linear discriminant analysis and (c) naïve Bayes (Breiman L. Random forests. Machine Learning, 45(1): 5–32, 2001).

The rank of the RNA candidate in a model was calculated by the mean rank of 10 candidates' selections (per CV-fold). Per model (and RNA selection method) the AUC was plotted as a function of the number of RNAs in the model. The optimal number of RNAs per model was determined graphically. ROC curves and confusion matrices were generated to assess the predictive performance of our models. The values of AUC, accuracy, sensitivity, specificity, positive and negative predictive values are reported.

Additional method for quantification of lncRNA

Total RNA extraction

Total RNA was extracted using Paxgene Blood RNA kit (Qiagen, France) and Serum/Plasma mini kit (Norgen Biotek, Canada) respectively, according to manufacturer's instructions. RNA quality was examined on an Agilent 2100 Bioanalyzer with the RNA 6000 Nano Kits (Agilent, France). RNA quantity was measured on Qubit 3.0 fluorometer using RNA High sensitivity kit (Fisher Scientific, France).

cDNA synthesis

. Reverse transcription was performed using high capacity cDNA reverse transcription kit (Fisher scientific, France) according to the manufacturer instructions.

qPCR quantification

lncRNA were preamplified before qPCR. Preamplification reactions were prepared using Applied Biosystems preamplification master mix with 0.1X (100nM) of each of the primers pairs corresponding to the lncRNAs. 16 preamplification cycles were performed as preconized by the furnisher (50°C 2 minutes, 96°C 10 minutes, 40 cycles at 95°C for 15 seconds and 60°C for 1 minute). Quantitative PCR of biological samples was done in 10 µl total volume with 1 µl of preamplification product diluted 1/20 in TE buffer, 5 µl of 2x Soadvanced SYBR green PCR master mix (Biorad, USA) and 250 nM of each primer. Cycling conditions were 95°C for 5-10 min followed by 40 cycles of 95°C for 10-30 sec and 60°C 30-60 sec. A melting curve analysis (60°C to 99°C) was performed after the thermal profile to ensure specificity in the amplification. Relative expression level was determined against a standard curve realized on a 5 log scale using CFX maestro Software (Biorad, USA).

QUANTAMATRIX FIMAP quantification

lncRNAs of interest were also quantified using the FIMAP/QMAP platform developed by Quantamatrix (South Korea). Briefly, lncRNAs were amplified by PCR using primers with the same sequences as for qPCR that were chemically modified. Forward primers were phosphorylated in 5' and Reverse primers biotinylated in 5'. Multiplexed PCR reactions were performed on Biorad T100 thermocycler in 20µl reactions containing 2µl of lncRNA cDNA, 250 nM of each primers and 10µl of 2X One Taq Hot Start 2X master Mix (New England Biolabs, USA) with the following conditions: 30 seconds at 94°C, 25 cycles of 30s at 94°C, 1 min at 60°C and 1 min at 68°C, followed by a final extension at 68°C for 5 minutes. PCR products were then digested with 25U of lambda exonuclease for 30 minutes at 37°C to eliminate the phosphorylated strand and keep only the biotinylated ones. So digested products were quantified on QMAP using coded silica microdisks coated with oligos complementary to the RNAs of interest (one code per target oligo). Briefly, biotinylated PCR products were incubated with the coated microdisks in a 96 well plate, and hybridized products revealed by addition of a fluorescent streptavidin conjugate, SAPE (Prozyme, Denmark) after washing steps. Plates were imaged on QMAP that takes 2 images per spot: one dark image to quantify the fluorescence and 1 white light image to read the microdisks codes. Each target relative expression is then calculated by QMAP software by assigning fluorescence signal to each target according to the associated microdisk code.

lncRNAs were also measured by qPCR using specific primers. For this, total RNA was first extracted, reverse transcription and real time PCR using specific primers were performed. Using FiMAP (also called Quantamatrix QMAP platform and also a new fully automatized version QMX), a proprietary platform based on hybridization of PCR products on coated microdiscs with complementary oligonucleotide coupled to detection probes. Total RNA was

extracted followed by reverse transcription and PCR step allowing multiplexing of several targets using specific primers to the lncRNAs.

To show the efficacy of FiMAP as a multiplexed platform capable to quantify lncRNAs, plasma samples have been tested using NGS, qPCR, Celemics and FiMAP. Most of the lncRNAs showed that they are well quantified on the QMAP and quantitative with dilutions linearity in function of the input RNAs concentration on a dose dependent manner measured on QMAP with very equivalent results obtained when using the reference qPCR method as for the known reference lncRNA 20321.

Quantification performed on the FiMAP platform using coded microdiscs specific of each lncRNA was appropriate for multiplexing testing platform.

Celemics description

Celemics is based on a targeted sequencing approach using capture probes of 120 nucleotides that hybridize with the selected lncRNAs with magnetics beads. The capture step is performed following library preparation describe above. Briefly, 100 ng of library DNA is used in a volume of 3.4µl mixed with 5.6µl of Block Mix. Then, 7 µL of the Capture Library and 13 µL of the Hybridization Buffer is mixed with 9 µl of the DNA library preparation and incubated 24h at 65°C. After the incubation, 50 µl of Dynabeads Myone Steptavidin T1 are mixed with 200 µl of wash buffer #1 and added to the hybridization mixture. After removal of supernatant under magnetic condition, 500 µl of wash buffer #2 is added and removed using separator and wash 3 to 6 time with wash buffer #3 and then add 30 µl of nuclease free water for elution. Library is then amplified using PCR mixing on beads Captured DNA (15 µl), PCR post capture primer (5 µl), KAPA Library Amplification Mix (25 µl) and nuclease free water (5 µl) for 16 cycles and sample are purified of using AMPure XP beads prior sequencing. All libraries are sequenced with the Illumina NextSeq500 (2x75bp).

Results

Profiling 127,802 transcripts based on LNCipedia v5.2 was performed on serum samples from patients suffering of Alzheimer disease and cognitively intact healthy subjects using total-RNAseq technology. Above 127,802 transcripts, 19867 lncRNAs were identified with expression level of over 10 CPM in at least half the samples of one group.

Out of 19867 serum lncRNAs, a list of 1008 lncRNAs useful for diagnosis of Alzheimer disease was selected based on the statistical significance (p value <0.05, Wilcoxon test). Random Forest algorithm was used for the classification model. From this, several sets of 2-20 lncRNAs with high predictive value were identified. The sets of selected 2-20 lncRNAs provide an AUC ranged from 0.7 and up to 1 with an accuracy, sensitivity and specificity ranged from 0.7 to 1.

A total of 1091 novel lncRNAs were further identified using transcript reconstruction in the human postmortem mediotemporal brain tissue of 5 AD cases and 10 HC cases from deep-sequencing experiments. Profiling these novel 1091 novel lncRNAs was performed on same brain area, the mediotemporal cortex from the group of human AD brains and the group of healthy control brains using total-RNAseq technology. Out of these 1091 novel brain transcripts, 26 showed deficient expression and 16 showed overexpression level in AD brains as compared to HC brains (P<0,05).

Profiling of a total of 128 893 comprising the 1091 novel lncRNAs and 127,802 transcripts based on LNCipedia v5.2 was performed using total-RNAseq technology on brain cortex (mediotemporal) from 5 AD cases and 5 healthy controls, and on plasma samples from 12 subjects, 6 patients suffering Alzheimer and 6 healthy controls as well as on whole blood (Paxgene RNA tubes) samples from 137 subjects included in 5 groups: patients suffering of MCI, mild AD, moderate-to-severe AD, DLB or, FTD and cognitively intact healthy control subjects.

Out of the 128 893 transcripts sequenced in each biological sample type from all patient and HC groups, lncRNAs were identified based on their threshold expression level (median over 5 count per million (CPM) in at least half the samples of at least one subject group studied). 10122 brain lncRNAs, 3774 plasma lncRNAs and 9367 whole blood lncRNAs were retained for statistical analysis. The results show:

1- **Brain lncRNAs panels:** Out of the 10122 brain lncRNAs sequenced in the brains and having an expression level > 5 CPM:

-We confirmed on all brains tested, the expression in the brain of the 1091 novel lncRNAs (Table 7) never described before, which represent novel therapeutic and diagnostic targets for brain disorders including cognitive disorders.

-We identified 860 brain-enriched lncRNAs (Table 12) that exhibit at least 2-fold higher expression level in the brain as compared to all other peripheral organs studied (lung, ovary, colon, prostate, breast, liver, bladder, kidney, skin, heart, muscle). These 860 lncRNAs represent novel therapeutic and/or diagnosis targets for brain disorders including cognitive disorders.

-We identified 1202 lncRNAs (Table 8) comprising 42 novel lncRNAs, showing a statistically significant differential expression when comparing AD brains to HC brains: These 1202 lncRNAs represent therapeutic and/or diagnosis candidates specifically for cognitive disorders in particular Alzheimer

2-**Plasma lncRNAs panels:** Out of the retained 3714 plasma lncRNAs, we identified 410 plasma lncRNAs (Table 9) that showed a statistically significant differential expression ($p<0.05$, Wilcoxon test) when comparing AD plasma samples to HC plasma samples: These

410 lncRNAs represent novel panel of biomarkers useful for diagnosis and for therapeutic response monitoring applications of cognitive disorders in particular MCI and Alzheimer.

3-Blood lncRNA panels: Out of the retained blood 9367 lncRNAs, we identified 2982 blood lncRNAs (Tables 10, 11) that showed statistically significant differential expression in at least one of the subject groups studied (HC, MCI, mild AD, Moderate-to-severe AD, all AD, DLB, FTD) (p value< 0.05 using Anova test comparing all groups and a p value <0.05 when using the Wilcoxon test to compare the HC group and one of the patient population groups studied). Further, we applied additional criteria such as fold change <0.8 or >1.2 and AUC >0.65 or < 0.35 to select the 2847 lncRNAs and 136 lncRNAs listed in Tables 10 and 11.

These 2982 blood lncRNAs represent novel biomarker(s) and biomarker signature(s) useful for diagnosis, differential diagnosis and for therapeutic response monitoring applications of cognitive disorders in particular MCI and Alzheimer as MCI, mild AD, moderate-to-severe AD, DLB and FTD and other cognitive disorders.

'-**Circulating lncRNAs** panels (common-to brain and present in peripheral body fluids): Out of the 10122 lncRNAs sequenced in the brains, the following numbers were identified as circulating lncRNAs in body fluids:

–2096 circulating lncRNAs in plasma : Out of these 2096 lncRNAs, a panel of 46 lncRNAs showed a differential expression in plasma samples of AD patients group as compared to HC subject group with statistical significance (p<0.05, Wilcoxon test) and having all an AUC value >0.8 or <0.2. Out of these 46 differentially expressed circulating lncRNAs, 17 have an AUC value >0.9, 4 candidates have AUC value=1 thus fully discriminating AD patients from healthy control subjects.

- 4902 lncRNAs detected in blood samples (Pax RNA tube) and thus identified as a novel panel of lncRNAs measurable in the peripheral body fluid. Out of these 4902 lncRNAs, a panel of 310 lncRNAs showed a differential expression in blood samples of at least one of the 5 patients groups studies (MCI, mild AD, moderate-to-severe AD, DLB or FTD patients) as compared to HC subject group with statistical significance (p<0.05, Wilcoxon test) and represent good candidates for diagnosis and therapeutic applications for cognitive disorders. - 5054 lncRNAs circulating lncRNAs in serum . Out of these 5054 lncRNAs, 43 lncRNAs are differentially expressed in serum of AD group as compared to healthy group with statistical significance (p<0.05, Wilcoxon test). Thus, the invention also relates to any common brain/plasma and/or common brain/blood and/or brain/serum lncRNAs and/or brain-enriched lncRNA circulating in plasma, blood, serum or in any other non-invasive peripheral body fluid detected using the methods of the invention for use for therapeutic and diagnosis applications of any brain disorders where such circulating lncRNAs are altered.

In particular the invention relates to the panels of lncRNAs listed in tables 1-12 for use for therapeutic and diagnosis applications of brain disorders in particular cognitive disorders.

The sequences of lncRNAs disclosed in this disclosure are shown in the sequence listing included in this application.

Claims

1. A method for the diagnosis of a cognitive disorder including but not limited to Alzheimer disease in a subject at risk of having or developing a cognitive disorder, comprising:
(a) isolating a biological sample from the subject;
(b) detecting a level of expression in a lncRNA signature, the lncRNA signature comprising or consisting of at least one lncRNA selected from lncRNAs listed in Tables 7-12, in the biological sample from said subject;
(c) comparing the level of expression in the sample to a level of expression in a reference,
wherein an increased or decreased level of expression in the sample compared to the level in the reference identifies the subject having a cognitive disorder or being at risk of developing a cognitive disorder.

2. The method according to claim 1, wherein the lncRNA signature comprises or consist of at least one lncRNAs selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2) (“lncRNA signature 2”).

3. The method according to claim 1, wherein the lncRNA signature comprises or consist of at least one lncRNAs selected from 6 lncRNAs (TCONS_00045364, TCONS_00035023, TCONS_00035091, TCONS_00035022, TCONS_00035092, TCONS_00035093) (“lncRNA signature 6”).

4. The method according to any preceding claim, wherein in step (b) the expression level of lncRNAs is detected in combination with another biomarker suitable for detection of a cognitive disorder such as neurocognitive tests, neuroimaging methods and/or CSF biomarkers.

5. A method according to any preceding claim for monitoring the development or progression of a cognitive disorder in a subject suffering from a loss or impairment of cognitive function or dementia, said method comprising steps (a), (b) and (c), and

(d) designing the therapeutic treatment according to the said identified cognitive disorder.

6. A method for treating a subject suffering from a progressive impairment or loss of cognitive function or dementia, said method comprising:
(a) diagnosing the cognitive disorder associated to the progressive impairment or loss of cognitive function or dementia in said patient using the method according to any of claims 1 to 3, and
(b) adapting the therapeutic treatment to the results obtained in step (a).

7. A method for adapting therapeutic strategy to a subject suffering from a progressive impairment or loss of cognitive functions or dementia, the said method comprising the following steps:
(a) diagnosing or monitoring the progressive impairment or loss of cognitive function or dementia in said patient using the method according to any of claims 1 to 4 and
(b) modifying consequently the therapeutic strategy of the patient.

8. The method according to any preceding claim, wherein the biological sample is selected from blood, plasma, serum, saliva, tear, urine or cerebrospinal fluid.

9. The method according to any preceding claim, wherein a cognitive disorder or any dementia type is diagnosed (differentiation versus healthy controls) or wherein the specific type of dementia is diagnosed versus other types of dementia including and not limited to Alzheimer (AD), mild cognitive impairment (MCI) of AD type, Frontotemporal dementia (FTD) and MCI of FTD type, Dementia with Lewy body (DLB) and MCI of DLB type, Parkinson's disease dementia (PDD) and MCI of PDD type, Vascular dementia, Progressive supranuclear palsy (PSP), and corticobasal degeneration (CBD).

10. A kit for diagnosing and/or monitoring a cognitive disorder including but not limited to AD, comprising at least one reagent for the determination of a lncRNA expression profile comprising or consisting of at least one lncRNA selected from 54 lncRNAs (lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-

6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2)("lncRNA signature 2").

11. The kit according to claim 10, wherein the at least one reagent comprises specific oligonucleotides complementary to the lncRNAs of interest.

12. A targeted sequencing panel for next generation sequencing, comprising nucleic acids specific for at least one lncRNA selected from 68 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, LINC-PINT:16, lnc-ATP6V1C1-12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3,lnc-ANAPC11-2:8, lnc-CLLU1-2:6, lnc-KLHL36-2:2, lnc-LRRC10-1:1, lnc-RMDN2-3:24, lnc-SMN2-4:2, lnc-SPRYD3-1:17, lnc-USP47-2:1, lnc-ZC3H12B-1:5, TCONS_00019798, TSPOAP1-AS1:39,TCONS_00035093, lnc-OCM-3:4, lnc-KIF14-1:2, PCBP1-AS1:302, lnc-CA6-8:1, NEAT1:22, lnc-CA6-8:2, STARD7-AS1:5, lnc-IL31RA-1:1, lnc-ANKRD36-1:4, lnc-ATP6AP2-13:1, lnc-SOCS6-10:1, lnc-CDIPT-2:1, lnc-USP47-2:1, RBM26-AS1:1, MIR181A2HG:1, TTC21B-AS1:2, LEF1-AS1:1, lnc-SLC35E3-8:1, lnc-ZCCHC13-4:1, lnc-NEMF-1:4, TCONS_00011994, lnc-EVX1-15:1, lnc-REC8-2:1, OIP5-AS1:36, MYLK-AS1:13, lnc-PCP4L1-3:2, lnc-CGREF1-2:1, ZC3H12B-11:1, PSMB8-AS1:14, lnc-STX10-2:1, lnc-TCFL5-6:1, lnc-UQCC3-2:1, lnc-ZNF516-14:1, lnc-PDGFA-6:2, lnc-FOXD4L5-16:1, lnc-SAMD11-12:4, lnc-ADAD1-3:1, lnc-SLC35E3-8:2, lnc-NID1-4:4, FTX:19, TCONS_00017372, lnc-GRAP-1:2) ("lncRNA signature 1").

13. A lncRNA for use in the treatment of brain diseases, in particular mild cognitive impairment (MCI) and Alzheimer or another cognitive disorder in a subject at risk of having or developing mild cognitive impairment or a cognitive disorder, wherein the treatment comprises administering to the subject an effective amount of a pharmaceutical agent modulating (inducing or inhibiting) the expression of the lncRNAs in the brain and/or in the periphery, wherein the lncRNAs are at least one lncRNAs selected from one of the below lncRNA signatures:

(i) 21 lncRNAs (TCONS_00050539, TCONS_00062555, TCONS_00024916, TCONS_00059198, TCONS_00066462, TCONS_00033653, TCONS_00040878, TCONS_00000634, TCONS_00050178, TCONS_00055496, TCONS_00033736, TCONS_00023309, TCONS_00027765, TCONS_00062602, TCONS_00005325, TCONS_00011974, TCONS_00023240, TCONS_00023401, TCONS_00066358, TCONS_00062306, TCONS_00027438) ("lncRNA signature 12");

(ii) 10 lncRNAs (LINC-PINT:16, lnc-ATP6V1C1-12:1, lnc-GABBR1-1:2, lnc-PMM2-6:2, MALAT1:23, MALAT1:48, lnc-LTBP3-2:6, lnc-LTBP3-2:3, MALAT1:11, lnc-LTBP3-2:2) ("lncRNA signature 13");

(iii) 17 lncRNAs (TCONS_00035022, TCONS_00035023, TCONS_00035094, TCONS_00035093, TCONS_00035021, TCONS_00035090, TCONS_00035024, TCONS_00035091, TCONS_00012059, TCONS_00035092, TCONS_00012060, TCONS_00050014, lnc-ENC1-5:1, lnc-SNAP25-3:1, lnc-HMGA1-2:4, PEG3-AS1:1, lnc-UNC80-1:1) ("lncRNA signature 14");

(iv) 17 lncRNAs (lnc-NEK6-2:1, lnc-PMM2-6:4, UGDH-AS1:10, lnc-RMDN2-3:24, lnc-EIF1AD-1:1, lnc-FANCL-4:1, lnc-FAAP100-2:1, TCONS_00011974, lnc-FEM1B-4:1, lnc-GNA14-3:1, lnc-PINK1-2:1, lnc-PRSS27-4:24, lnc-SLC25A3-7:1, lnc-FEM1B-4:1, NORAD:2, NORAD:8, CACTIN-AS1:5) ("lncRNA signature 42").

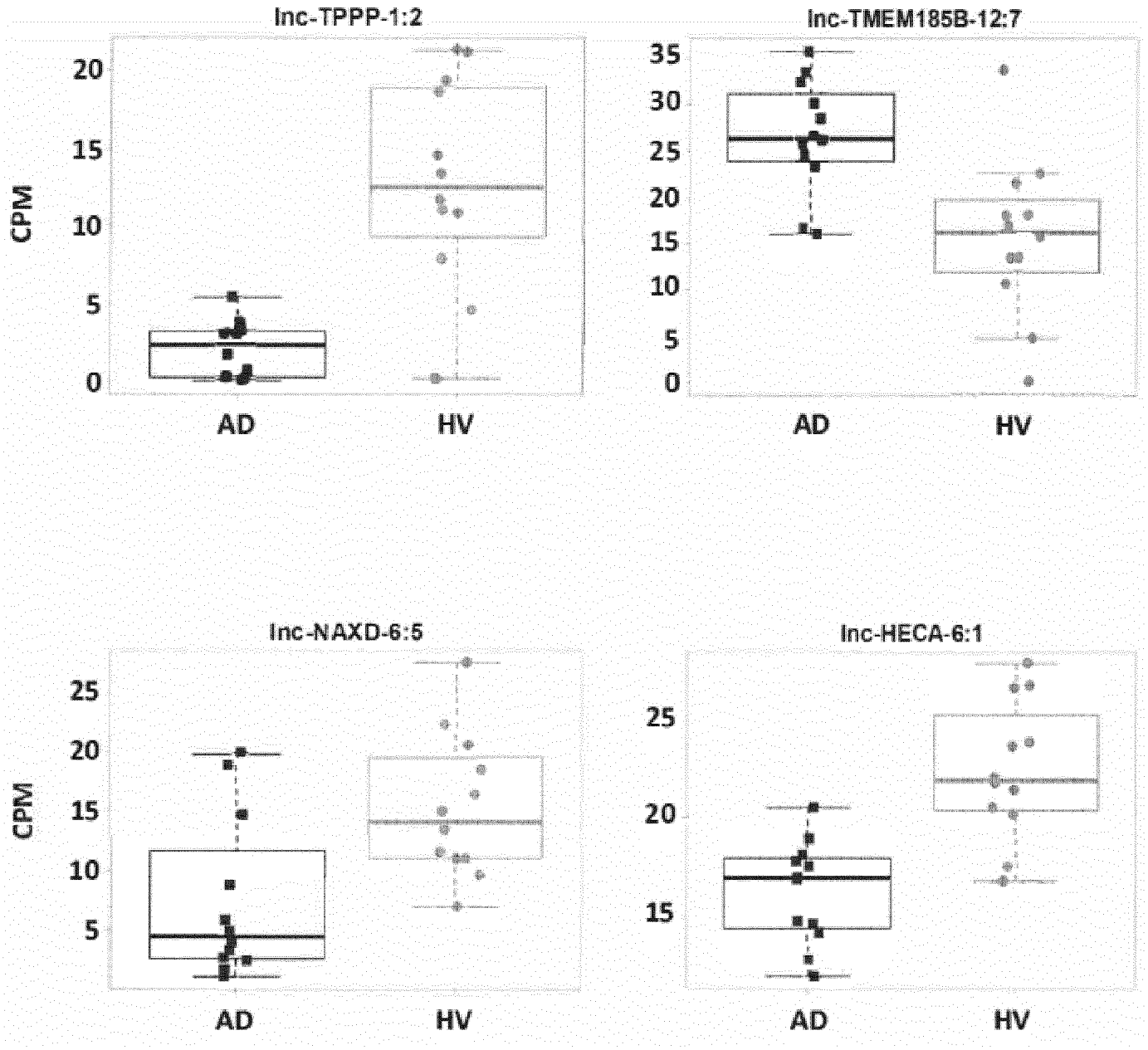

lnc-TPPP-1:2
CPM
20
15
10
5
0
AD
HV
lnc-TMEM185B-12:7
35
30
25
20
15
10
5
0
AD
HV
lnc-NAXD-6:5
CPM
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20
15
10
5
AD
HV
lnc-HECA-6:1
25
20
15
AD
HV

Figure 1

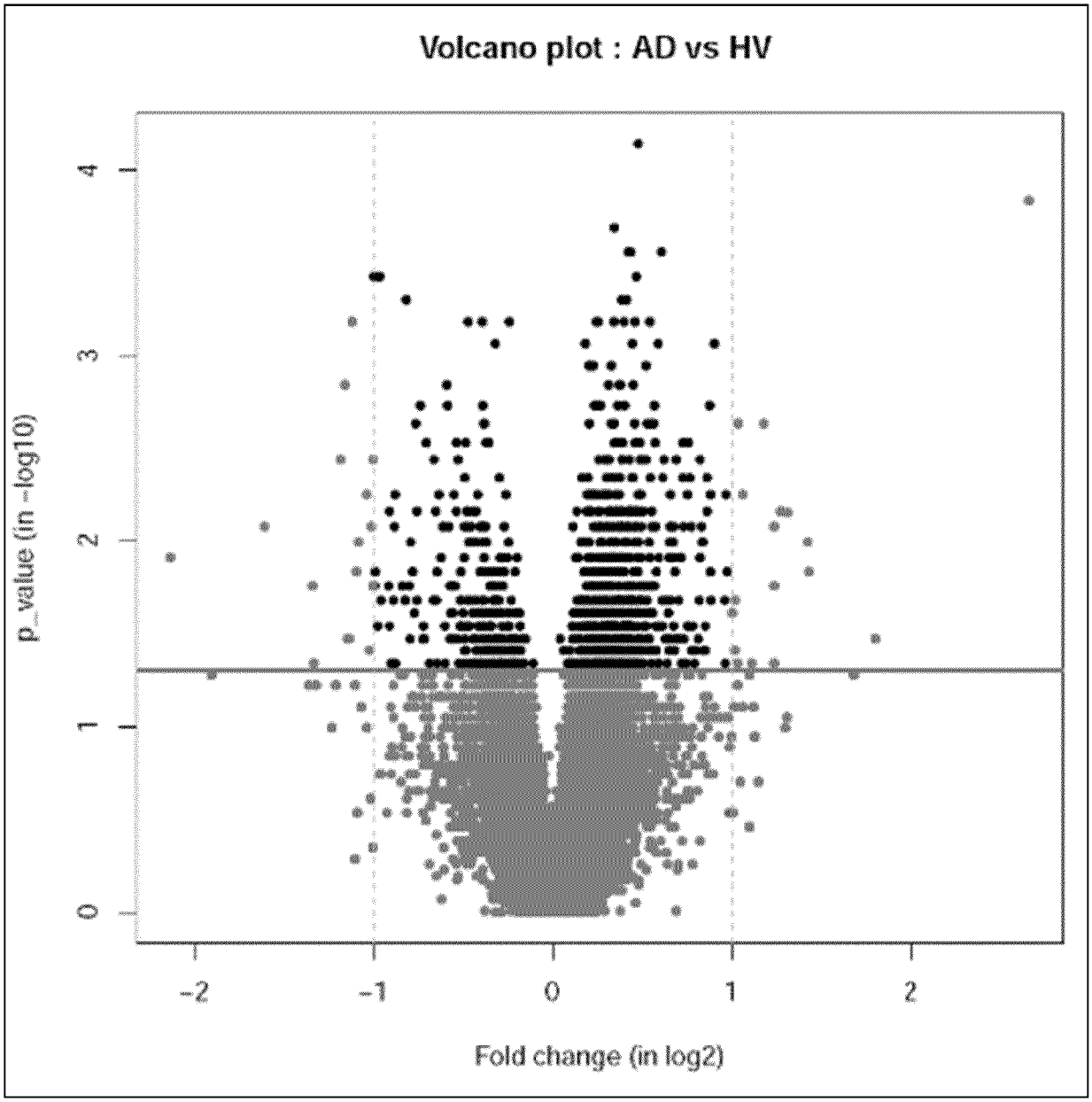
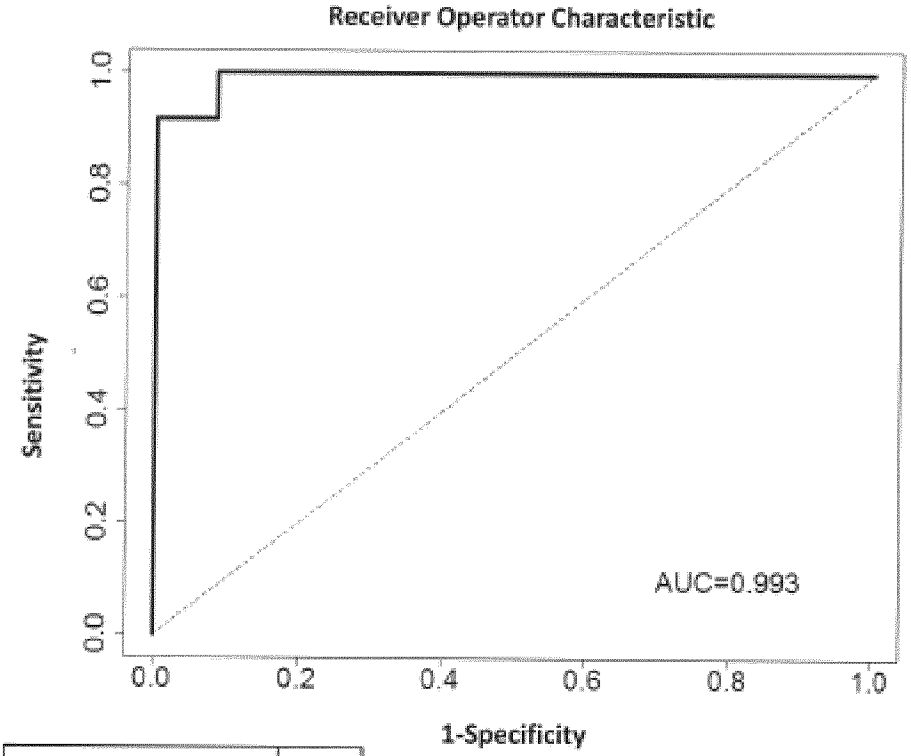

Volcano plot : AD vs HV
p_value (in -log10)
0
1
2
3
4
-2
-1
0
1
2
Fold change (in log2)

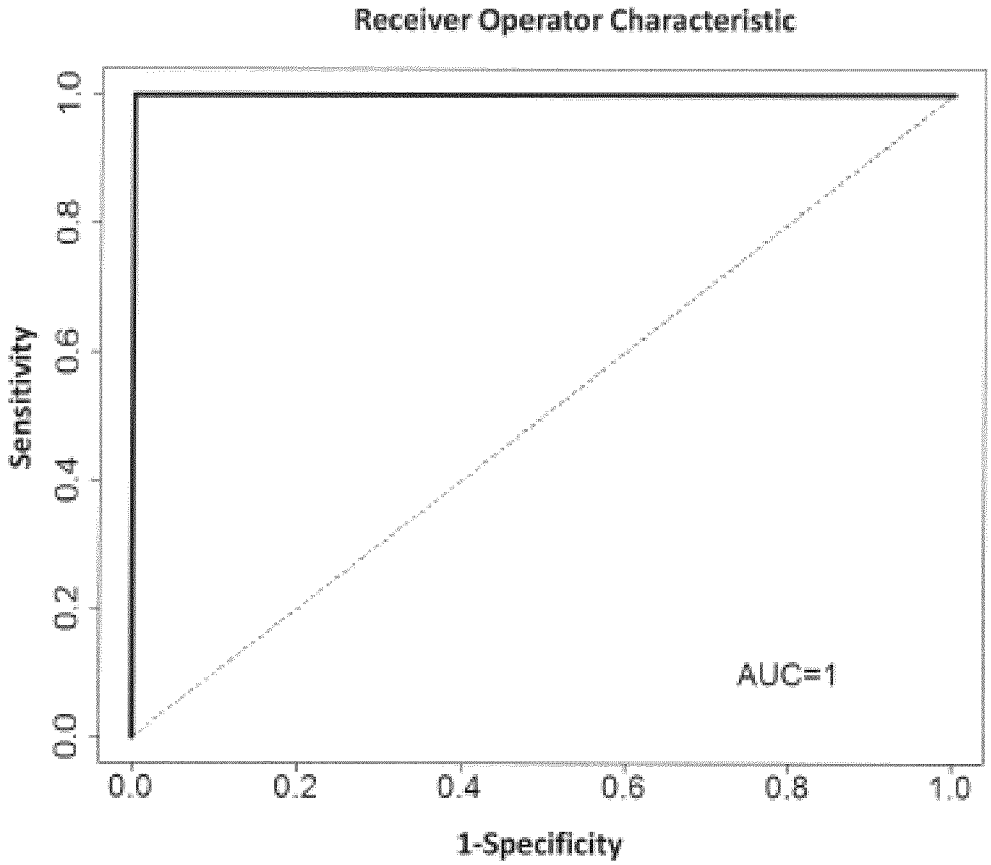
Figure 2



lncRNA	Rank
lnc-DLG5-1:1	1
lnc-EBLN1-1:4	2
lnc-FAT1-7:2	3
lnc-PRR5-5:1	4
lnc-RBKS-6:1	5
lnc-FOXD4L5-35:1	6
lnc-TENM3-3:3	7
lnc-FAM133B-2:1	8
lnc-ZNF726-1:3	9
lnc-AP3M1-1:1	10
lnc-DUSP10-6:1	11
lnc-TPPP-1:2	12
LINC01206:20	13

Statistics measured	Results
Accuracy	0.958
Sensitivity	1.000
Specificity	0.917
Positive Predictive value	0.923
Negative Predictive value	1.000

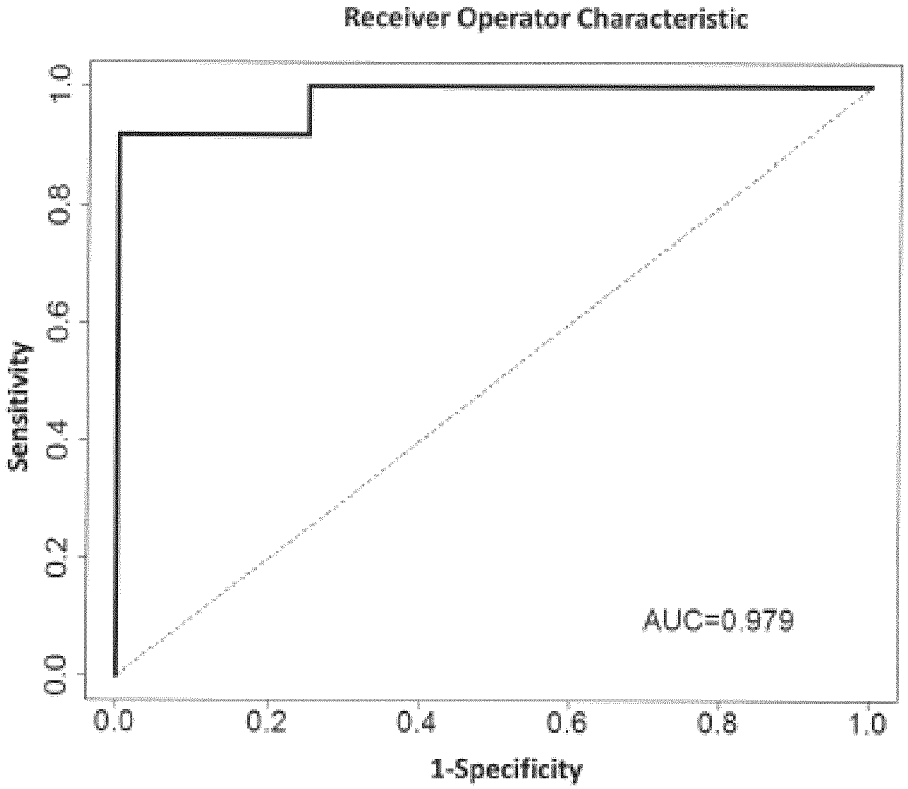
Figure 3



lncRNA	Rank
LINC02345:11	1
lnc-EBLN1-1:4	2
lnc-TPPP-1:2	3
lnc-TENM3-3:3	4
lnc-FAT1-7:2	5
lnc-DKK1-5:3	6
lnc-TACSTD2-2:4	7

Statistics measured	Results
Accuracy	1.000
Sensitivity	1.000
Specificity	1.000
Positive Predictive value	1.000
Negative Predictive value	1.000

Figure 4

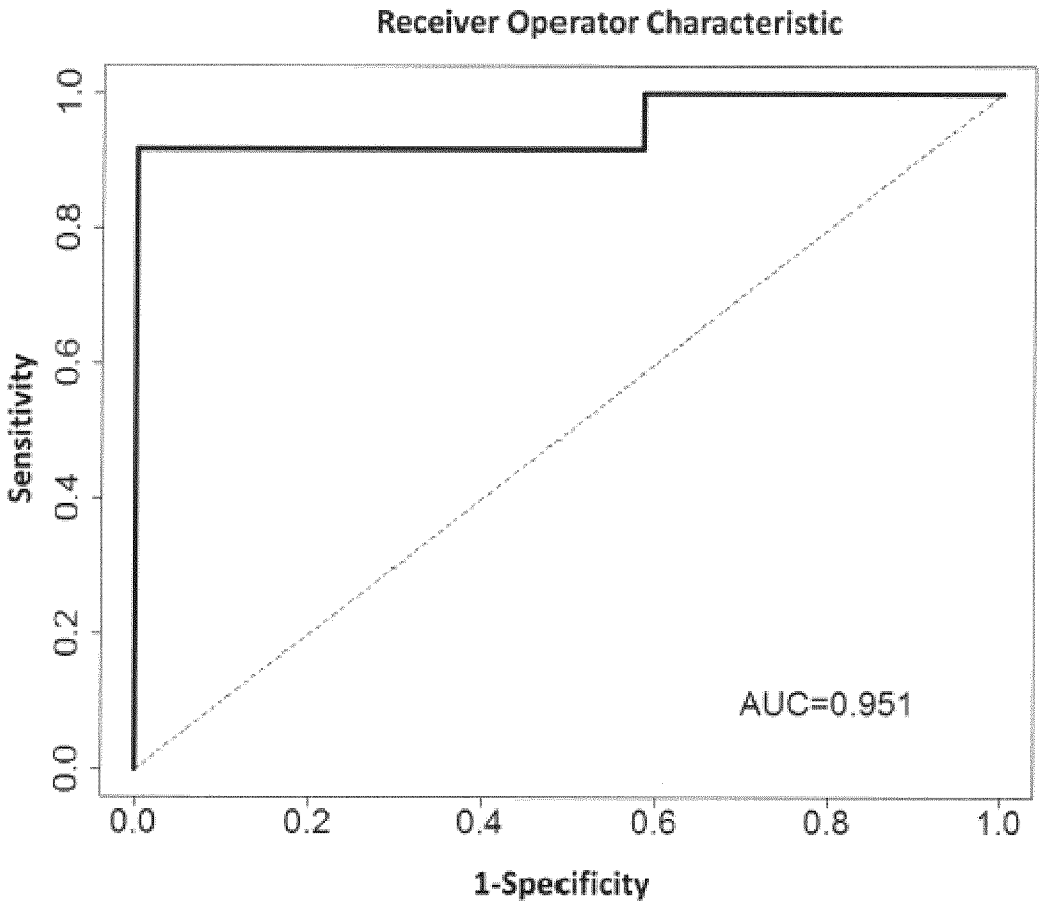


lncRNA	Rank
lnc-TPPP-1:2	1
ARRDC3-AS1:7	2
lnc-TENM3-3:5	3
lnc-TENM3-3:4	4
lnc-QRFP-5:1	5
lnc-CRYBB1-1:1	6
lnc-MGST3-1:3	7
lnc-FAM49B-8:1	8
HAND2-AS1:70	9
lnc-TMEM185B-12:7	10
lnc-CNDP1-7:1	11
lnc-C21orf58-1:2	12

	AD predicted	HV predicted
AD True	12	0
HV True	1	11

Statistics measured	Results
Accuracy	0.958
Sensitivity	0.917
Specificity	1.000
Positive Predictive value	1.000
Negative Predictive value	0.923

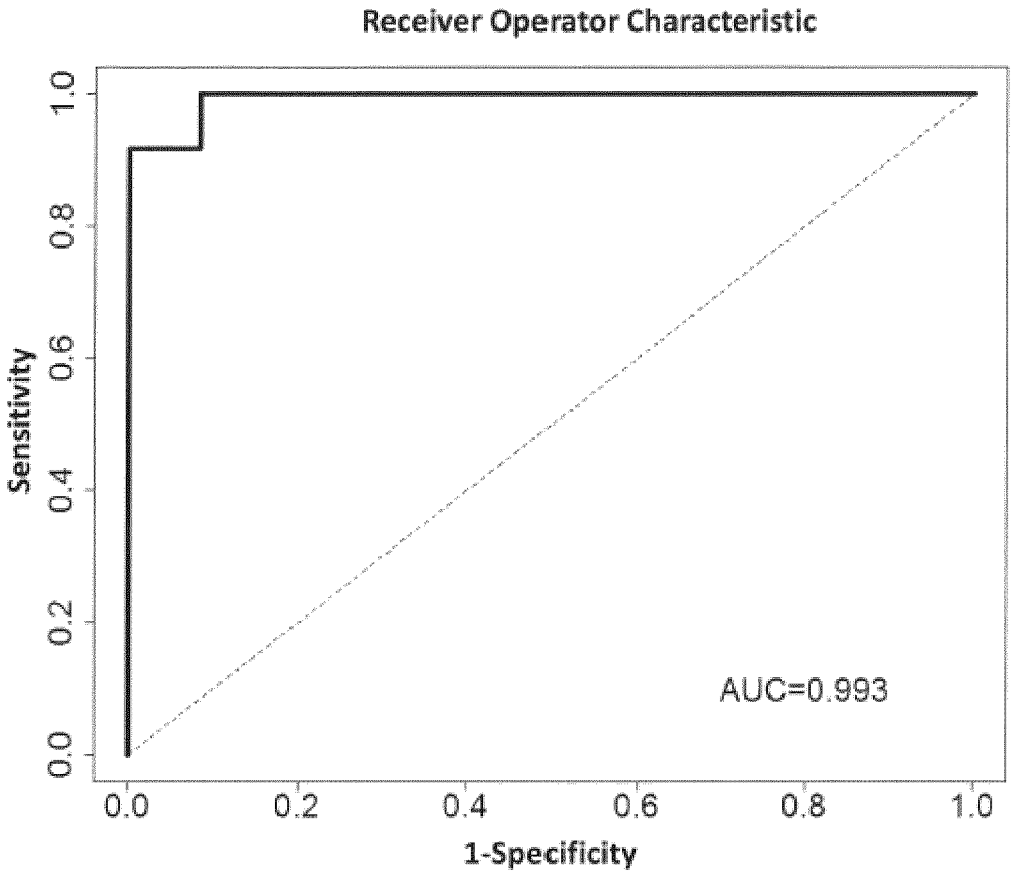
Figure 5



lncRNA	Rank
lnc-TENM3-3:3	1
lnc-MARCH4-2:7	2
lnc-LRRC1-5:2	3

Accuracy	0.917
Sensitivity	0.917
Specificity	0.917
Positive Predictive value	0.917
Negative Predictive value	0.917

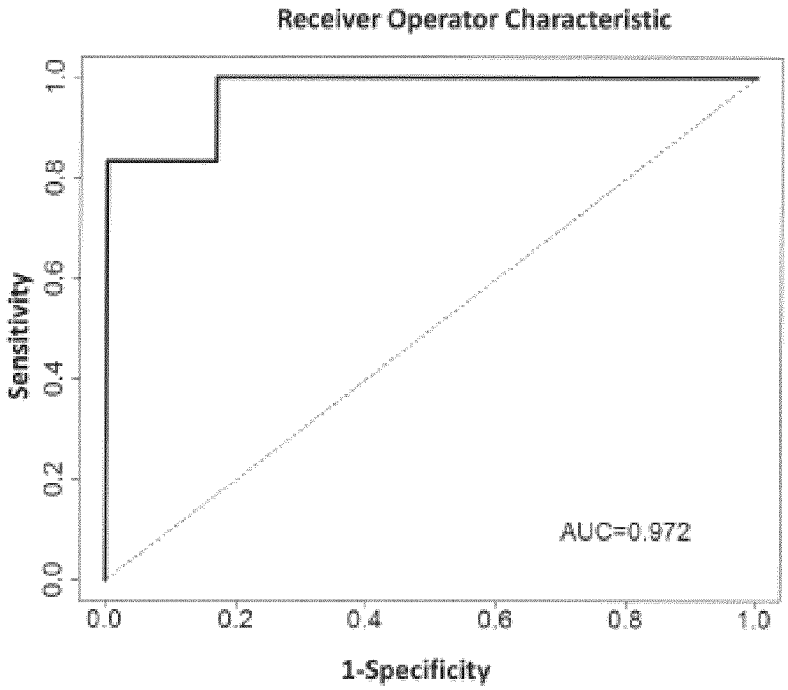
Figure 6



lncRNA	Rank
lnc-TPPP-1:2	1
lnc-TENM3-3:3	2
lnc-TMEM185B-12:7	3
lnc-NAXD-6:5	4
lnc-HECA-6:1	5
lnc-COMMD6-10:1	6
MIR29B2CHG:46	7

Accuracy	0.958
Sensitivity	0.917
Specificity	1.000
Positive Predictive value	1.000
Negative Predictive value	0.923

Figure 7



lncRNA	Rank
lnc-TPPP-1:2	1
LINC02345:11	2
lnc-ZNF273-4:4	3
lnc-TACC2-8:6	4
LINC01206:20	5
lnc-C5orf67-3:1	6
HAND2-AS1:58	7
lnc-PRDM9-20:1	8
lnc-CLK1-1:7	9
lnc-DNALI1-5:4	10
RORB-AS1:6	11
lnc-TPPP-1:3	12
lnc-BMS1-2:1	13
lnc-ADRB1-4:1	14
lnc-XXYLT1-5:1	15
MIR99AHG:104	16
LINC01748:17	17
lnc-AKR1E2-15:1	18

Accuracy	0.917
Sensitivity	0.833
Specificity	1.000
Positive Predictive value	1.000
Negative Predictive value	0.857

Figure 8

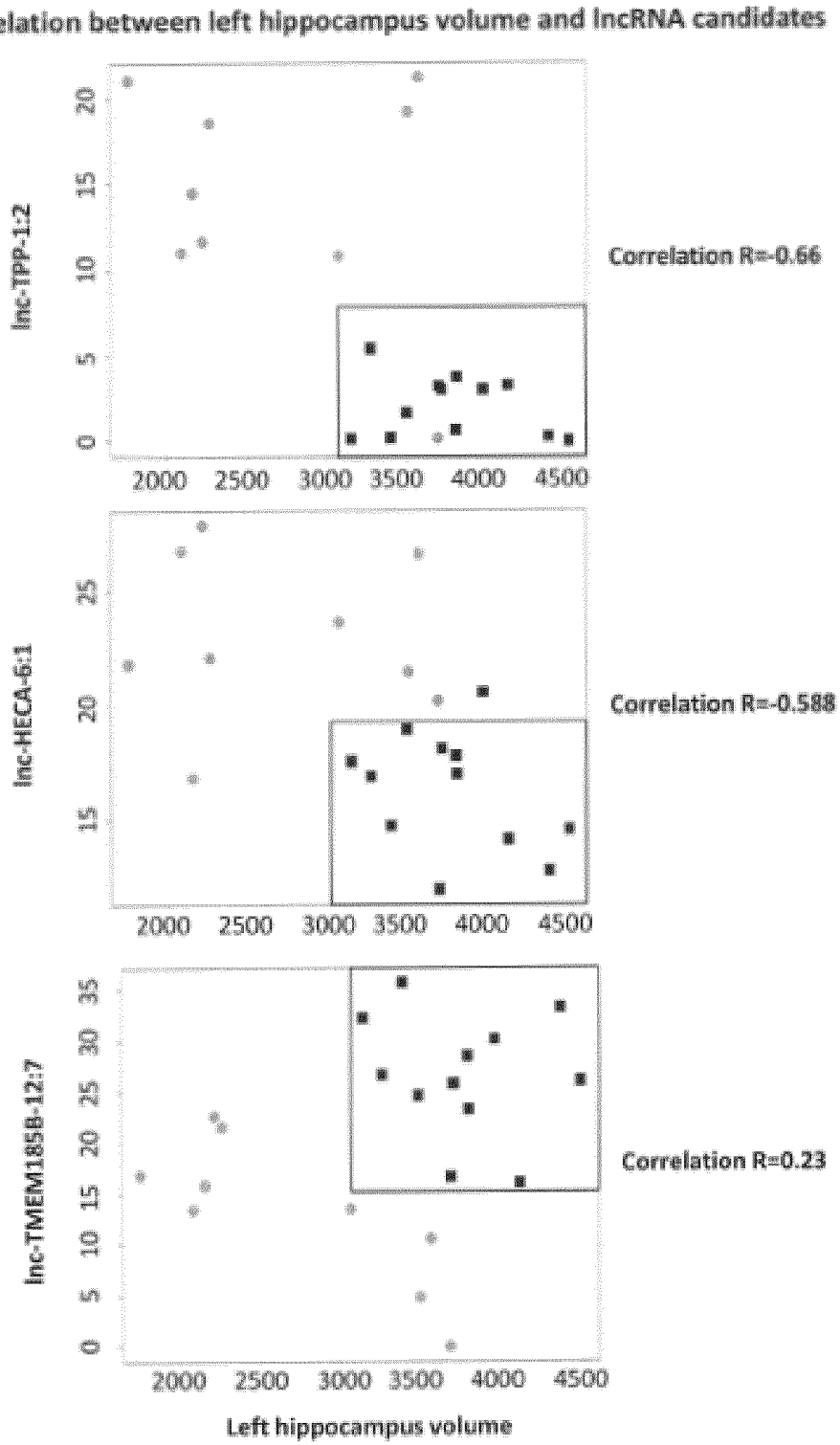

Correlation between left hippocampus volume and lncRNA candidates
lnc-TPP-1:2
Correlation R=-0.66
lnc-HECA-6:1
Correlation R=-0.588
lnc-TMEM185B-12:7
Correlation R=0.23
Left hippocampus volume

Figure 9

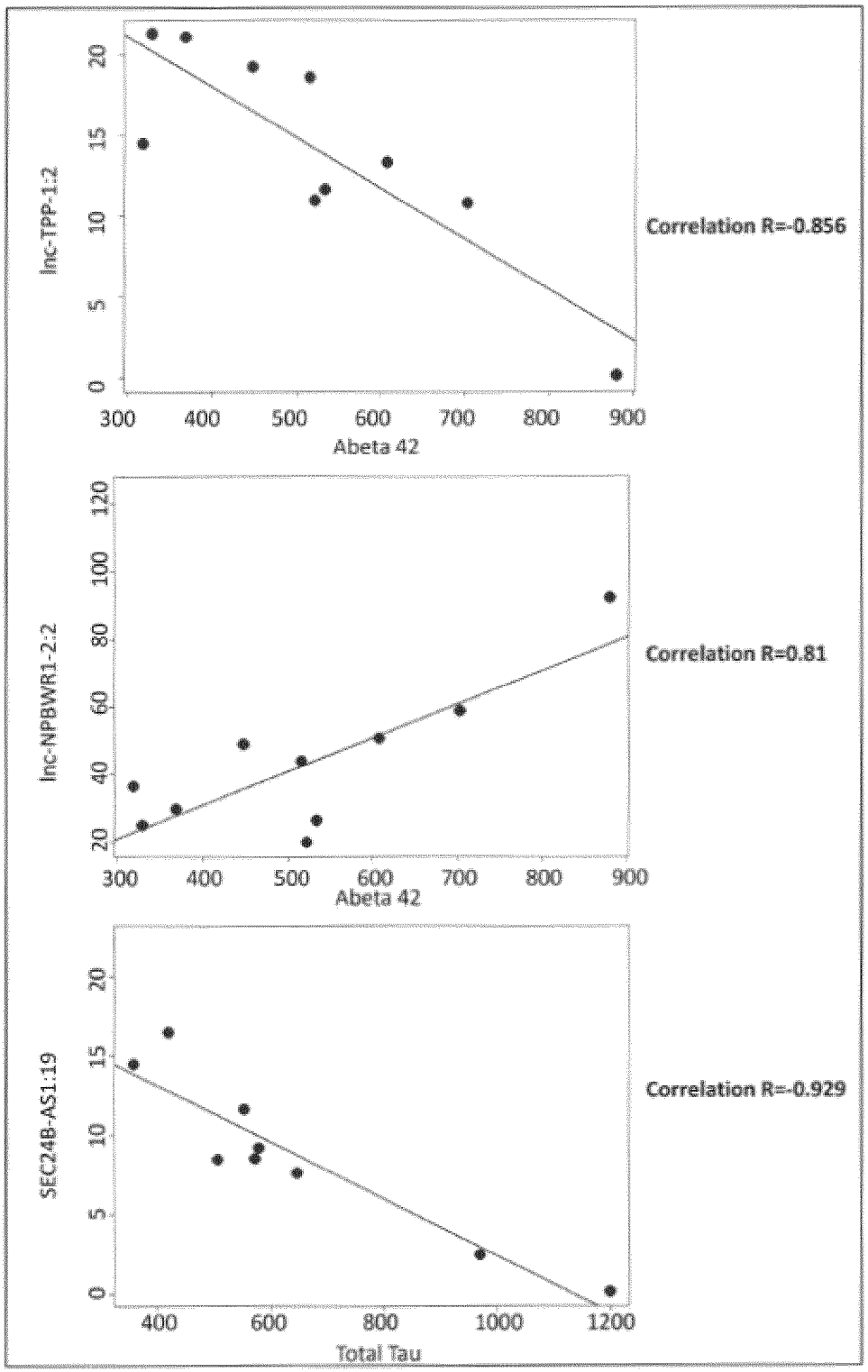

lnc-TPP-1:2
0
5
10
15
20
300
400
500
600
700
800
900
Abeta 42
Correlation R=-0.856
lnc-NPBWR1-2:2
20
40
60
80
100
120
300
400
500
600
700
800
900
Abeta 42
Correlation R=0.81
SEC24B-AS1:19
0
5
10
15
20
400
600
800
1000
1200
Total Tau
Correlation R=-0.929

Figure 10

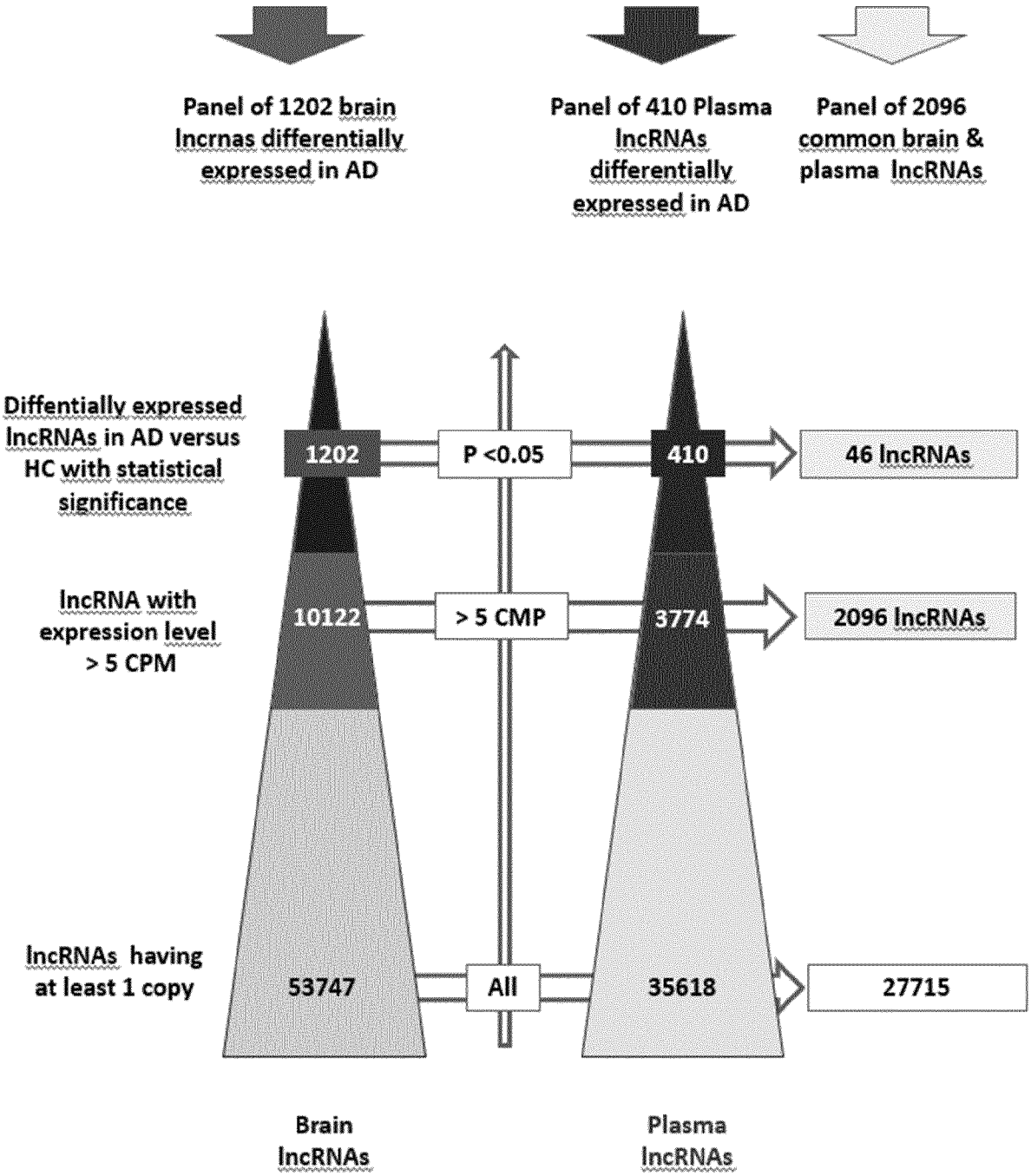

Panel of 1202 brain lncrnas differentially expressed in AD
Panel of 410 Plasma lncRNAs differentially expressed in AD
Panel of 2096 common brain & plasma lncRNAs
Diffentially expressed lncRNAs in AD versus HC with statistical significance
1202
P <0.05
410
46 lncRNAs
lncRNA with expression level > 5 CPM
10122
> 5 CMP
3774
2096 lncRNAs
lncRNAs having at least 1 copy
53747
All
35618
27715
Brain lncRNAs
Plasma lncRNAs

Figure 11

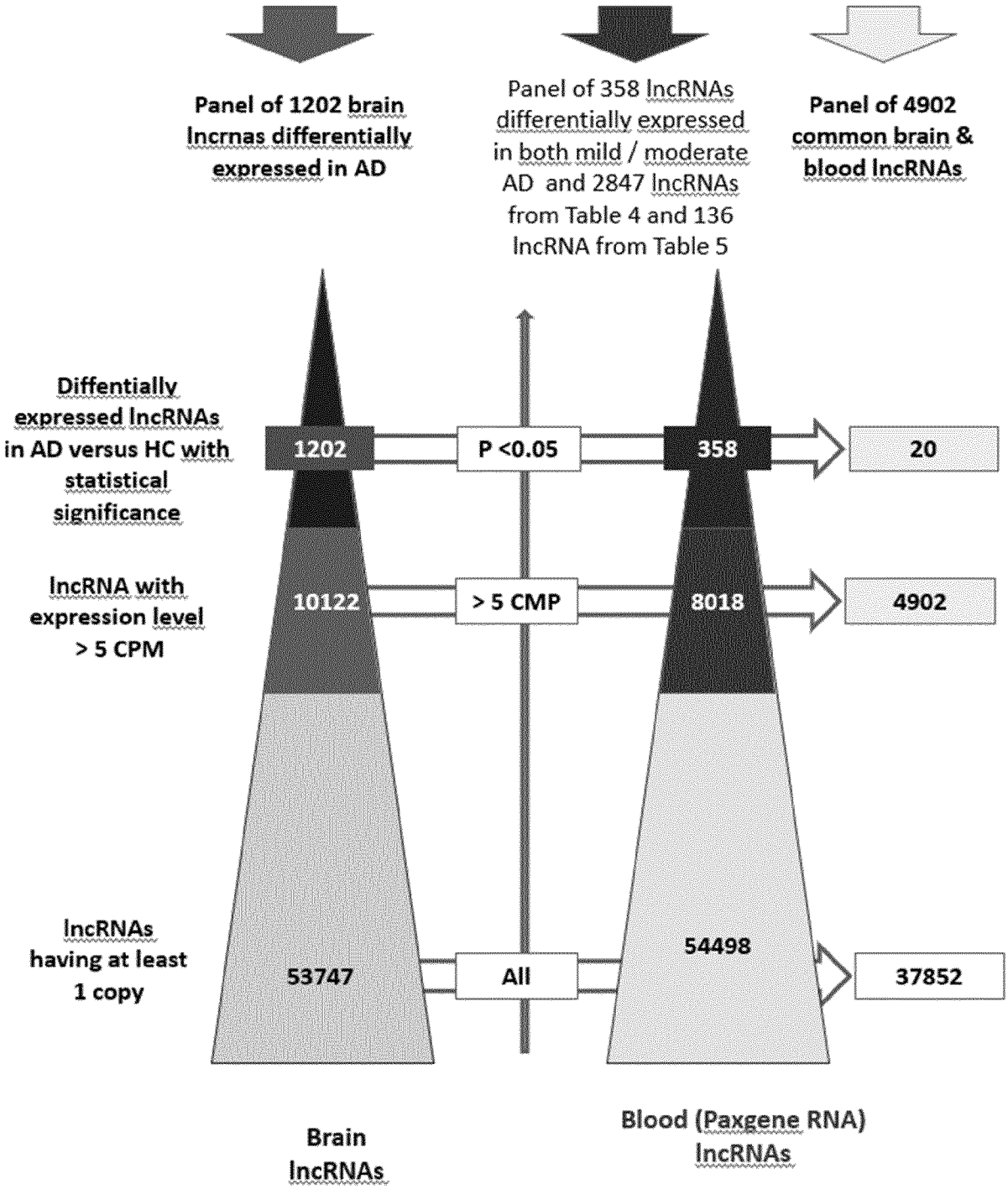

Panel of 1202 brain lncrnas differentially expressed in AD
Panel of 358 lncRNAs differentially expressed in both mild / moderate AD and 2847 lncRNAs from Table 4 and 136 lncRNA from Table 5
Panel of 4902 common brain & blood lncRNAs
Diffentially expressed lncRNAs in AD versus HC with statistical significance
1202
P <0.05
358
20
lncRNA with expression level > 5 CPM
10122
> 5 CMP
8018
4902
lncRNAs having at least 1 copy
53747
All
54498
37852
Brain lncRNAs
Blood (Paxgene RNA) lncRNAs

Figure 12

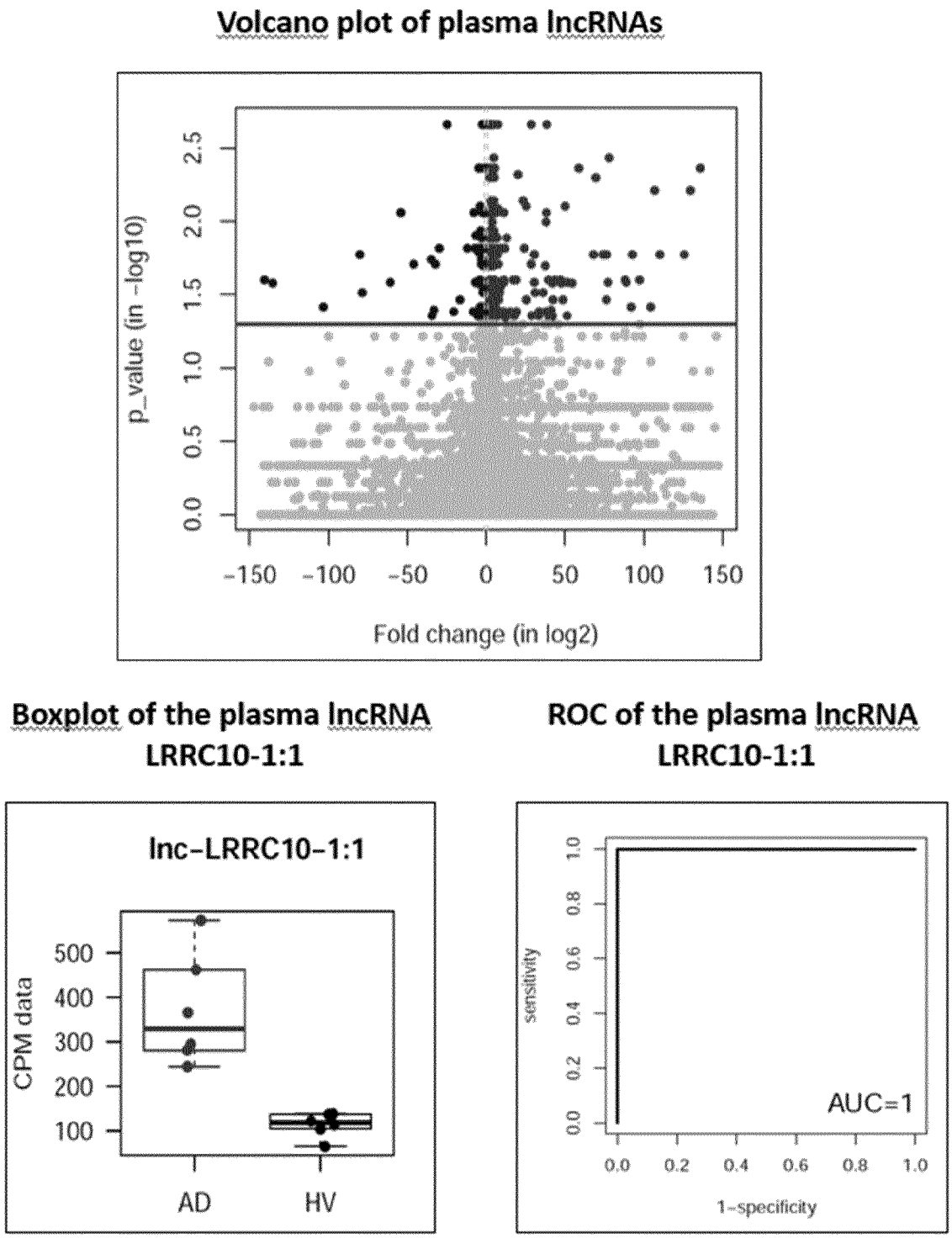

Volcano plot of plasma lncRNAs
p_value (in −log10)
0.0
0.5
1.0
1.5
2.0
2.5
−150
−100
−50
0
50
100
150
Fold change (in log2)
Boxplot of the plasma lncRNA LRRC10-1:1
lnc-LRRC10-1:1
CPM data
100
200
300
400
500
AD
HV
ROC of the plasma lncRNA LRRC10-1:1
sensitivity
0.0
0.2
0.4
0.6
0.8
1.0
AUC=1
1−specificity

Figure 13

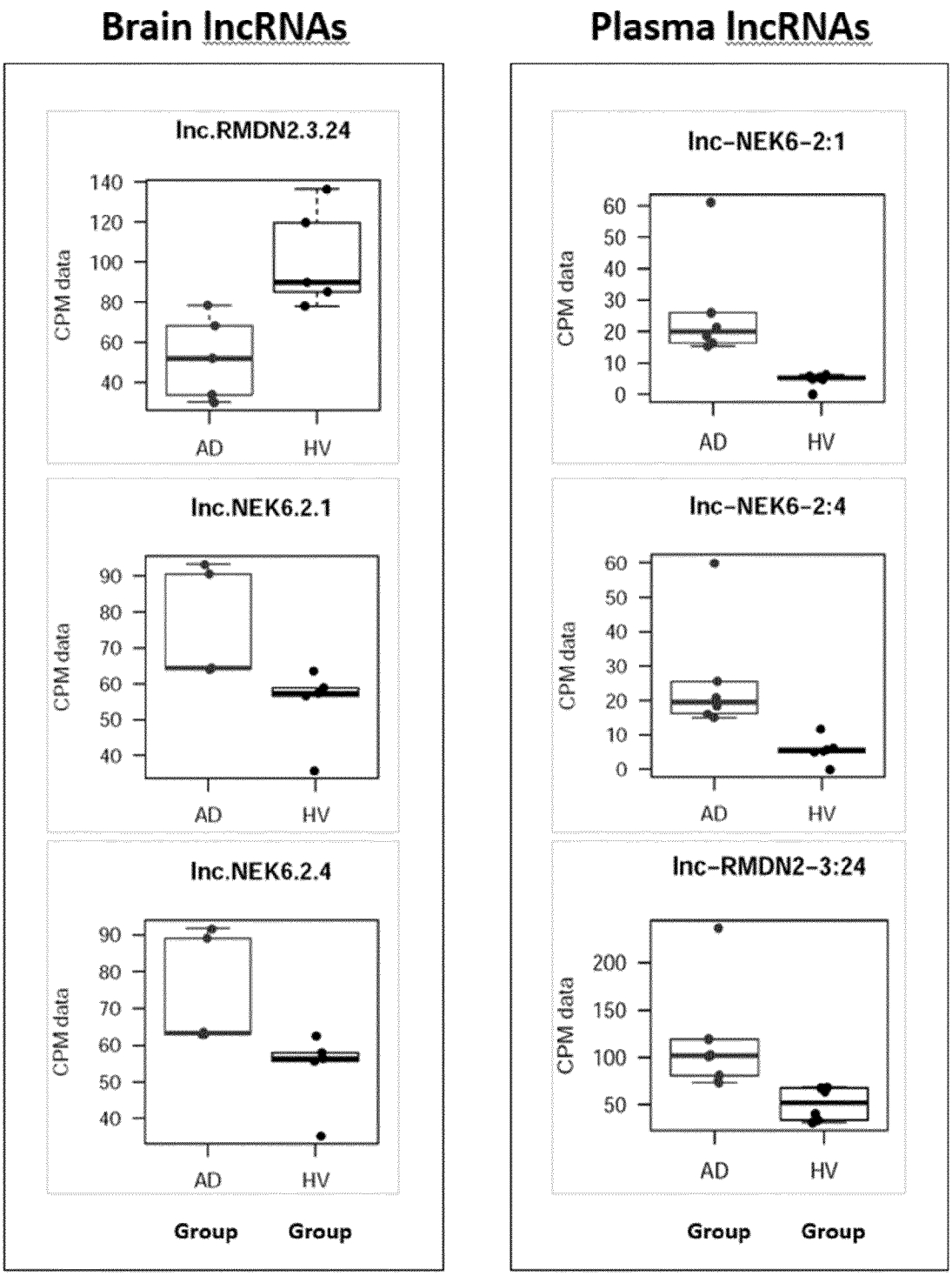

Brain lncRNAs
Plasma lncRNAs
lnc.RMDN2.3.24
lnc.NEK6.2.1
lnc.NEK6.2.4
lnc-NEK6-2:1
lnc-NEK6-2:4
lnc-RMDN2-3:24
CPM data
AD
HV
Group

Figure 14

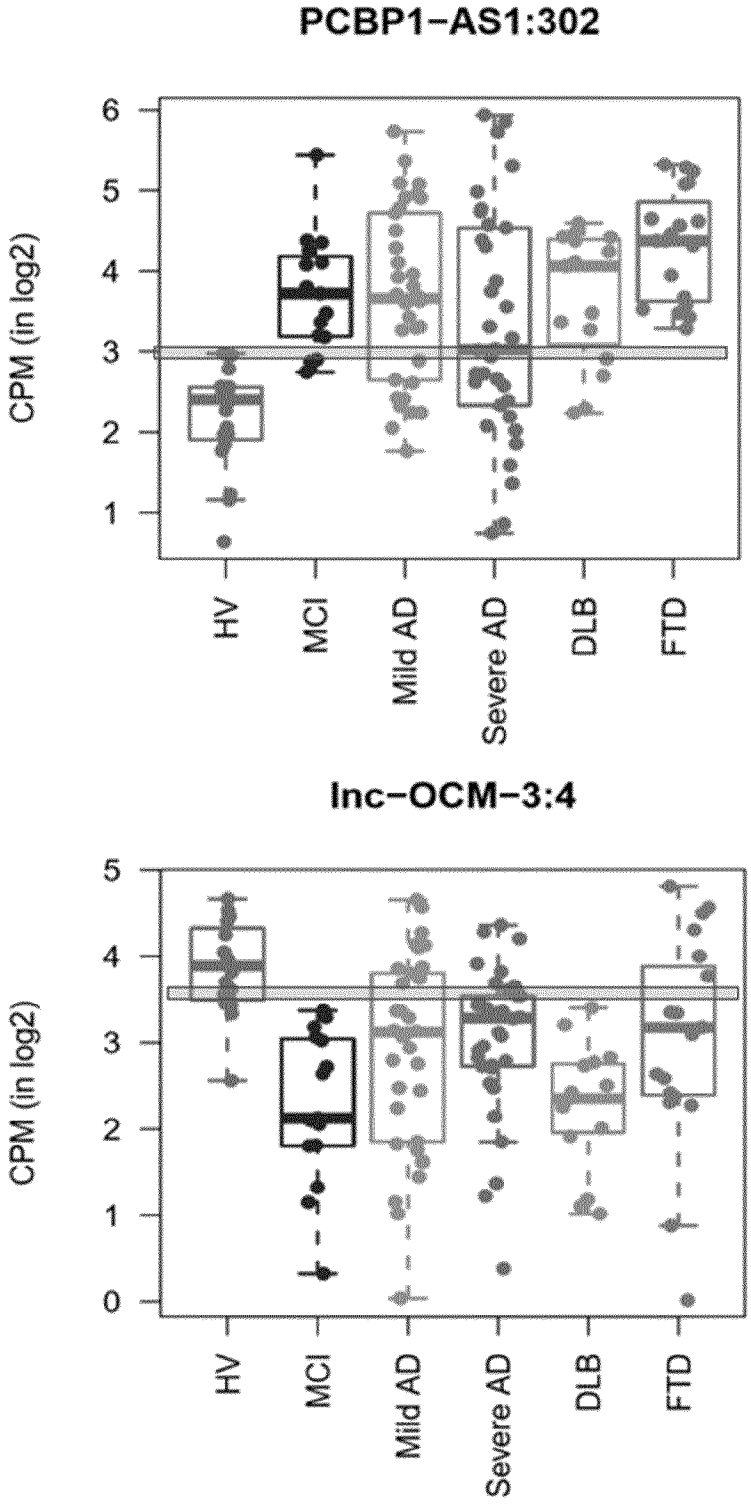

PCBP1-AS1:302
CPM (in log2)
6
5
4
3
2
1
HV
MCI
Mild AD
Severe AD
DLB
FTD
lnc-OCM-3:4
CPM (in log2)
5
4
3
2
1
0
HV
MCI
Mild AD
Severe AD
DLB
FTD

Figure 15

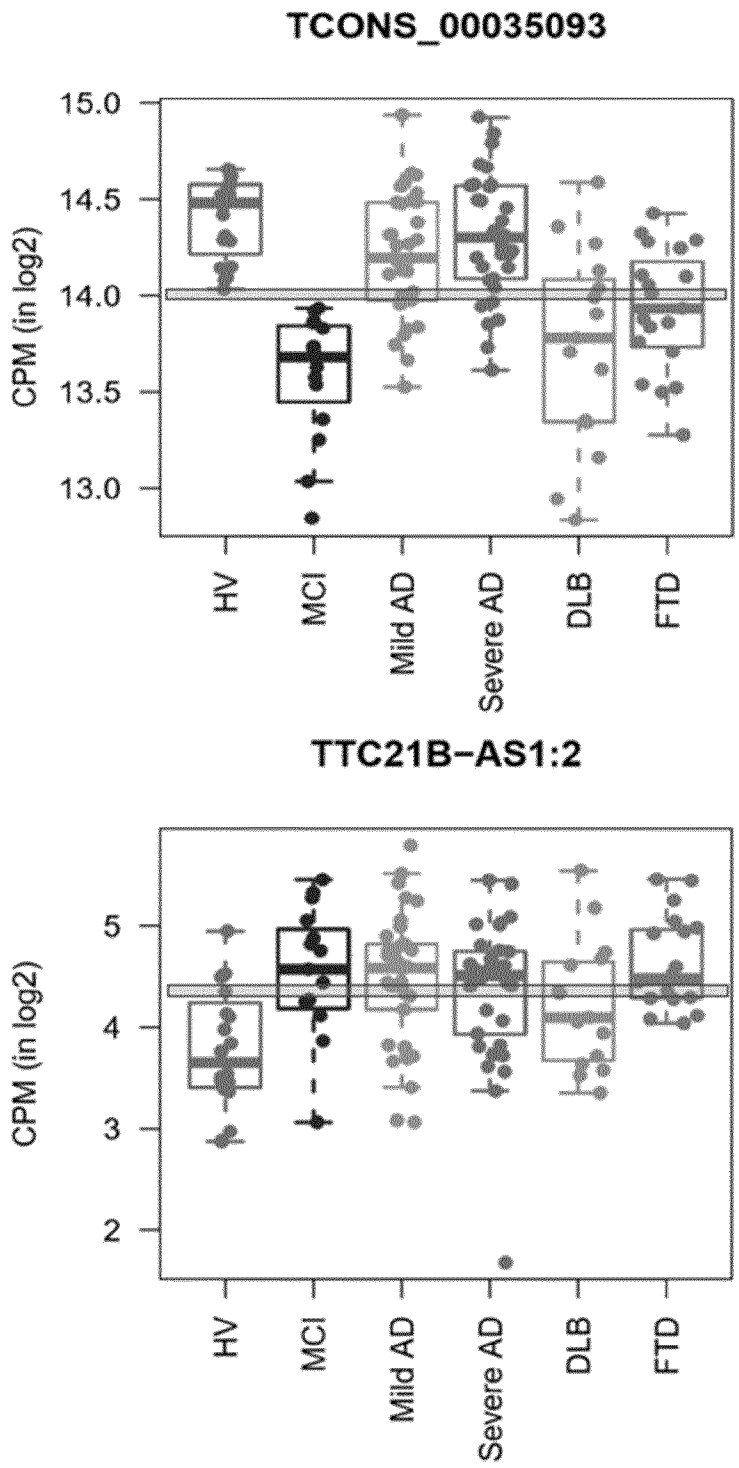
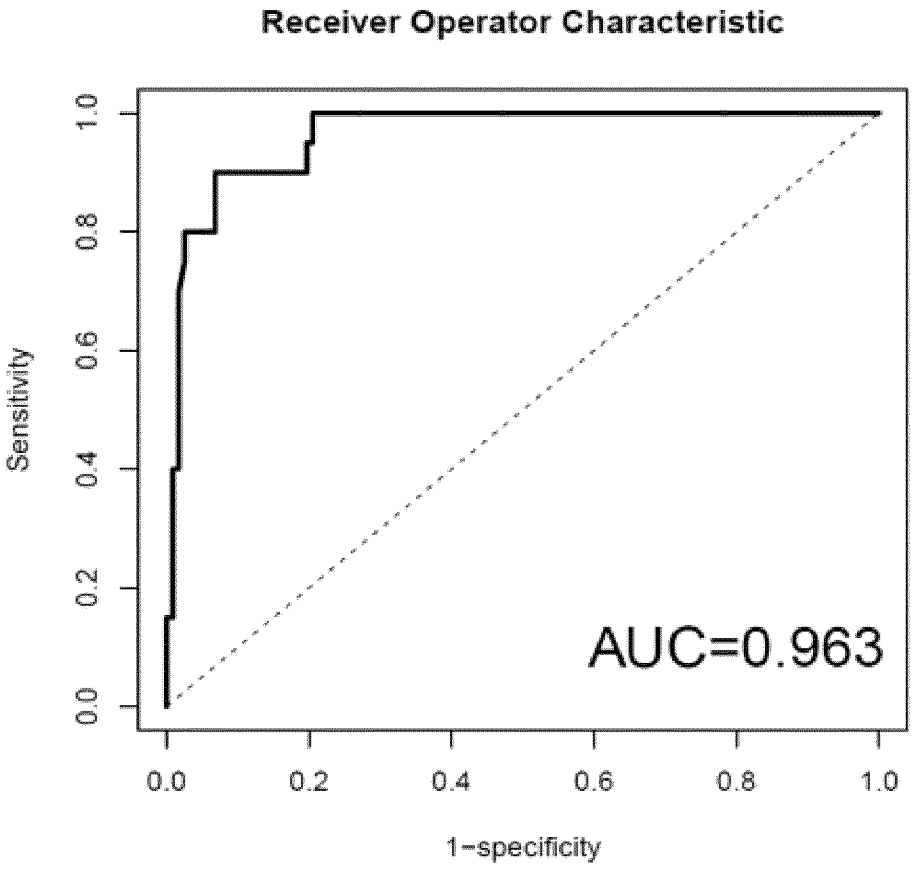

TCONS_00035093
CPM (in log2)
15.0
14.5
14.0
13.5
13.0
HV
MCI
Mild AD
Severe AD
DLB
FTD
TTC21B-AS1:2
CPM (in log2)
5
4
3
2
HV
MCI
Mild AD
Severe AD
DLB
FTD

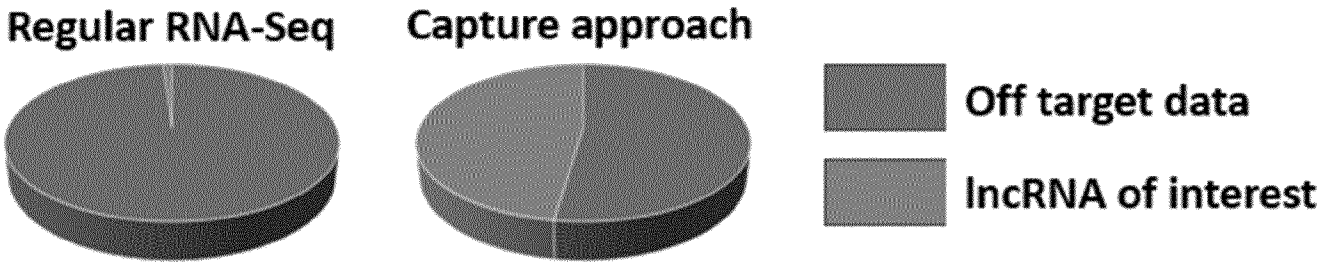
Figure 16



lncRNA	Rank
PCBP1-AS1:302	1
STARD7-AS1:5	2
lnc-NID1-4:4	3
RBM26-AS1:1	4
LEF1-AS1:1	5
lnc-CA6-8:1	6
lnc-CA6-8:2	7
lnc-OCM-3:4	8
lnc-AFG1L-7:1	9
lnc-LASP1-5:1	10
lnc-GCGR-1:2	11

Accuracy	0,934
Sensitivity	0.65
Specificity	0.983

Figure 17



To achieve 100X coverage with targeted sequencing, only 8 Millions of reads are needed compared to more than 500M with regular sequencing

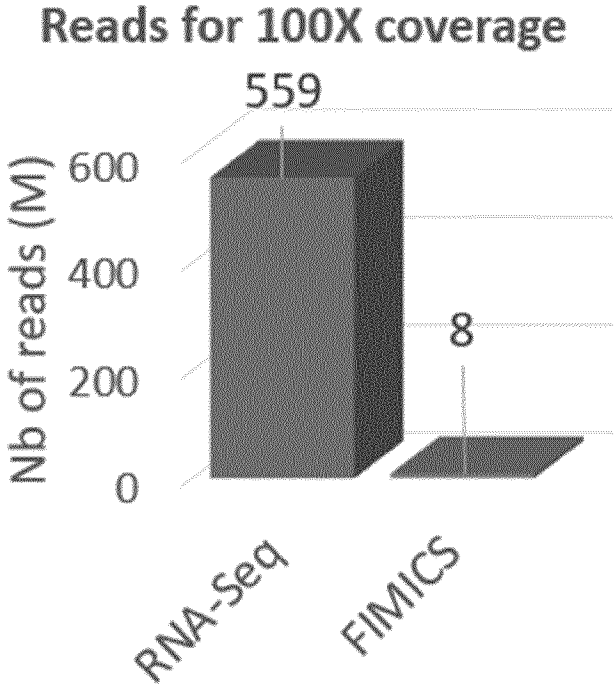


Figure 18

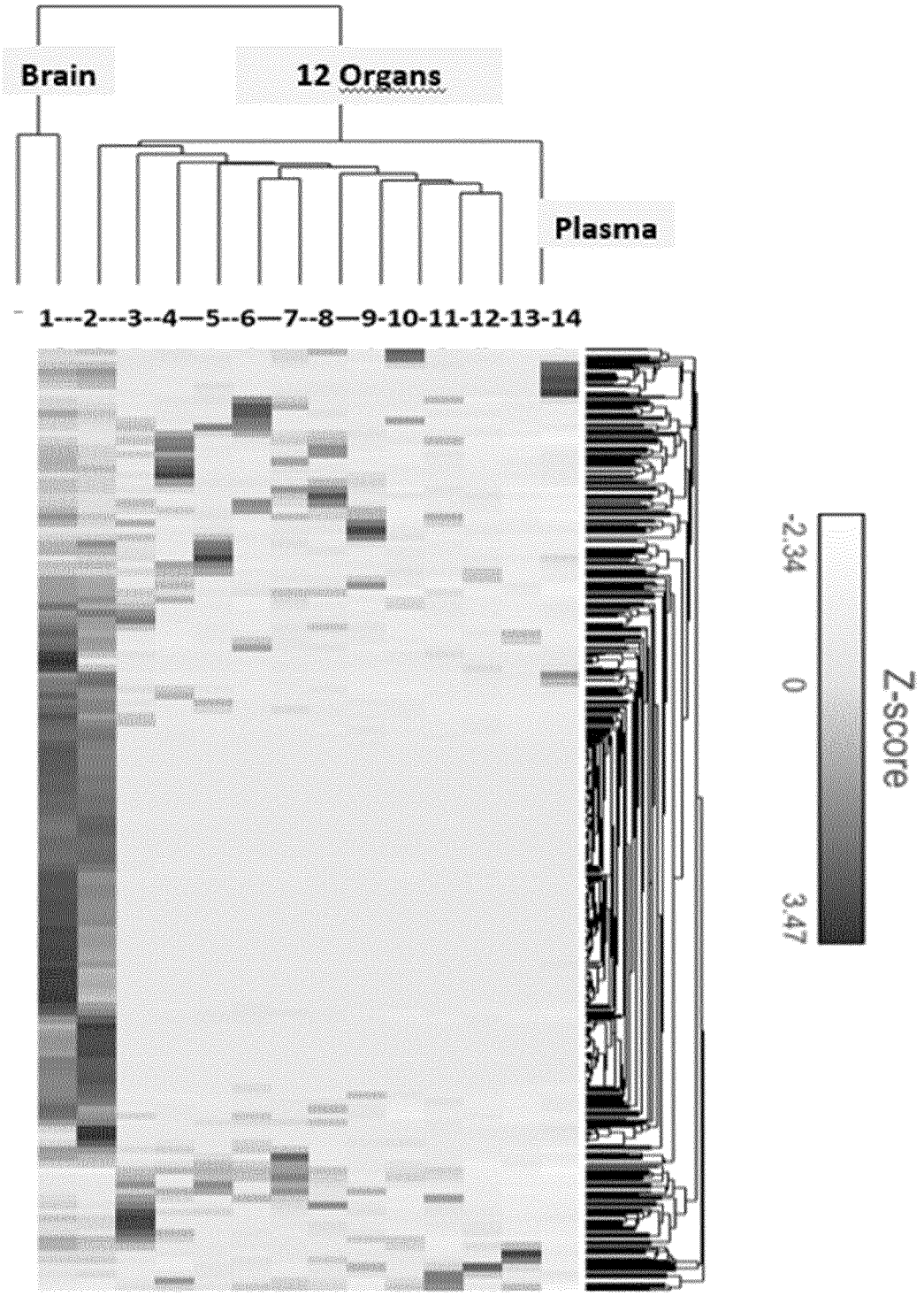

Brain
12 Organs
Plasma
1---2---3--4—5--6—7--8—9-10-11-12-13-14
-2.34
0
3.47
Z-score

Figure 19

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2019/073775

A. CLASSIFICATION OF SUBJECT MATTER
INV. C12Q1/6883
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2015/031958 A1 (GARVAN INST MED RES [AU]) 12 March 2015 (2015-03-12) the whole document p. 2, l. 26 - p. 3, l. 34; p. 4, ll. 2-33 -----	1,4-9
Y	RAMA SHANKAR ET AL: "Transcriptome analysis in different rice cultivars provides novel insights into desiccation and salinity stress responses", SCIENTIFIC REPORTS, vol. 6, no. 1, 31 March 2016 (2016-03-31), XP055636000, DOI: 10.1038/srep23719 the whole document Supplementary Table 1, position 4506 ----- -/--	1,4-9

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
29 October 2019	13/01/2020

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Sauer, Tincuta

1

Form PCT/ISA/210 (second sheet) (April 2005)

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Yaxing Gui ET AL: "Altered microRNA profiles in cerebrospinal fluid exosome in Parkinson disease and Alzheimer disease", Oncotarget, 10 November 2015 (2015-11-10), page 37043, XP055278437, United States DOI: 10.18632/oncotarget.6158 Retrieved from the Internet: URL:https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4741914/pdf/oncotarget-06-37043.pdf the whole document p. 37047	1,4-9
Y	Yanyao Deng ET AL: "Plasma long noncoding RNA 51A as a stable biomarker of Alzheimer's disease", Int J Clin Exp Pathol, 1 April 2017 (2017-04-01), pages 4694-4699, XP055636042, Retrieved from the Internet: URL:http://www.ijcep.com/files/ijcep0047807.pdf [retrieved on 2019-10-25] the whole document abstract, Fig. 1	1,4-9
Y	LILACH SOREQ ET AL: "Long Non-Coding RNA and Alternative Splicing Modulations in Parkinson's Leukocytes Identified by RNA Sequencing", PLOS COMPUTATIONAL BIOLOGY, vol. 10, no. 3, 20 March 2014 (2014-03-20), page e1003517, XP055334570, DOI: 10.1371/journal.pcbi.1003517 the whole document p. 3, col. 2	1,4-9
Y	LIANG FENG ET AL: "Plasma long non-coding RNA BACE1 as a novel biomarker for diagnosis of Alzheimer disease", BMC NEUROLOGY, vol. 18, no. 1, 9 January 2018 (2018-01-09), XP055636641, DOI: 10.1186/s12883-017-1008-x the whole document Fig. 1	1,4-9

1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2019/073775

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1, 4-9(all partially)

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 4-9(all partially)

A method for the diagnosis of a cognitive disorder including but not limited to Alzheimer disease in a subject at risk of having or developing a cognitive disorder, comprising: detecting a level of expression of at least one IncRNA selected from IncRNAs listed in Tables 7-12, wherein said lncRNA is TCONS_00062603 (i.e. the first lncRNA listed in Table 7), further methods using said lncRNA;

2-6546. claims: 1-13(partially)

A method for the diagnosis of a cognitive disorder including but not limited to Alzheimer disease in a subject at risk of having or developing a cognitive disorder, comprising: detecting a level of expression of at least one IncRNA selected from IncRNAs listed in Tables 7-12, wherein said lncRNA is a further lncRNA listed in Tables 7-12, further methods using said lncRNA,products.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2019/073775

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2015031958 A1	12-03-2015	NONE	