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(54) 发明名称

牛的23K甲基化芯片及其设计方法和应用

(57) 摘要

本发明提供了一种牛的23K甲基化芯片及其设计方法和应用,该甲基化芯片基因分型对象为包含23525个变异位点的甲基化变异位点组合,该甲基化芯片可以应用于牛基因组DNA甲基化修饰检测、环境对性状的表观调控机制解析、经济性状候选基因的定位、遗传多样性分析、种质资源评价与改良、全基因组关联分析以及全基因组选择育种等。本发明甲基化芯片能够为牛的DNA甲基化检测、表观修饰选择育种等领域和其他研究提供较好的研究基础和数据支撑,并进一步降低牛基因组甲基化检测的成本,加快我国优质牛品种改良的遗传进展,具有较好的社会价值和推广价值。

1. 一种检测牛的甲基化变异位点组合的探针在牛基因组DNA甲基化修饰检测、环境对性状的表观调控机制解析、经济性状候选基因的定位、遗传多样性分析、种质资源评价与改良、全基因组关联分析以及全基因组选择育种中的应用,其特征在于:所述牛的甲基化变异位点组合包括23525个甲基化变异位点,所述23525个甲基化变异位点的物理位置是基于ARS-UCD1.2参考基因组正链碱基确定的,所述23525个甲基化变异位点的物理位置信息如下:

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1_9464668	1_9873732	1_9877090	1_9907873	1_9929213	1_10251165	1_10339746	1_10384272	1_10729627	1_10739437
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1_20809754	1_20823966	1_22151333	1_22153357	1_22169895	1_22280863	1_2268299	1_22905717	1_29157043	1_35064345
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1_42735608	1_43059435	1_43076601	1_43091228	1_43102366	1_43187522	1_43193985	1_44047115	1_44053823	1_44086245
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1_44715250	1_44979625	1_45082357	1_45963953	1_46016435	1_46076592	1_46078424	1_46153989	1_46158670	1_46189287
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其中,位点编号中左侧表示位点所在的染色体,右侧表示位点在染色体上的位置。

2.一种牛的23K甲基化芯片,其特征在于:所述甲基化芯片基因分型对象为权利要求1所述牛的甲基化变异位点组合,所述甲基化芯片包含一套权利要求1所述探针。

3.根据权利要求2所述甲基化芯片,其特征在于:所述甲基化芯片通过下述方法获得:

S1:收集牛的原始全基因组甲基化测序数据,对数据进行质控,比对到牛的参考基因组ARS-UCD1.2,提取甲基化信息,获得原始的甲基化数据信息;

S2:根据S1筛选出甲基化变异位点,根据样本组织来源,筛选组织间与组织内变化大的甲基化位点,结合位点在染色体上的位置,分析其上下游序列并设计测序引物,挑选能够用于芯片开发的甲基化变异位点;

S3:运用甲基化捕获技术开发出所述甲基化芯片。

4.权利要求2所述甲基化芯片在牛基因组DNA甲基化修饰检测、环境对性状的表现调控机制解析、经济性状候选基因的定位、遗传多样性分析、种质资源评价与改良、全基因组关联分析以及全基因组选择育种中的应用。

牛的23K甲基化芯片及其设计方法和应用

技术领域

[0001] 本发明属于动物分子生物学技术及动物遗传育种技术领域,特别涉及牛的23K甲基化芯片及其设计方法和应用。

背景技术

[0002] 牛是世界上最重要的家畜之一,为人类提供了牛肉和牛奶等基本生活需求,但我国内牛和奶牛的生产水平相对欧美国家较低,快速提升我国内牛和奶牛的生产水平对于我国牛产业的长期稳定和健康发展具有重要的意义。遗传(基因组序列)和环境是决定牛生产水平的两个关键因素,环境可以通过表观遗传改变牛的生产水平。DNA甲基化是表观遗传在基因组层面上的主要存在形式,环境引起其修饰水平的变化会直接影响基因的表达水平,从而调控牛的生产能力。因此,牛基因组DNA甲基化的研究对于解析调控牛生产水平的关键机制和新基因的挖掘具有重要作用。此外,研究还发现早期的DNA甲基化变化会影响个体后期的发育,从而决定牛成年后的生产性能,并且部分DNA甲基化变化会传递给后代,从而将DNA甲基化变化带来的效应传递给后代,DNA甲基化被认为是在表观修饰层面发挥着类似于SNP等核酸变异的作用,可以作为预测牛生产水平的重要分子修饰标记,用作牛的基因组育种。

[0003] 目前存在多种基因组DNA甲基化的检测方法,主要包括基于蛋白-DNA互作原理的MeDIP、MIRE、MBD等方法和基于重亚硫酸盐处理WGBS、RRBS等方法。前者检测成本较低,但无法精确到单碱基层面,分辨率一般在50bp以下,不能区分CG和non-CG这2种具有明显差异的甲基化修饰序列特征;而后者可以精确到单碱基的分辨率,但具有高成本的特征,不能够实现对动物群体大规模的检测。开发具有低成本、高分辨率的DNA甲基化的检测方法对于提升我国牛的生产水平具有重要的作用。

[0004] 基因芯片(genechip)又称DNA芯片、生物芯片,是另外一种高通量分子标记技术,其基本原理是用利用杂交测序法,对检测到的信号进行定性与定量的分析,其具有快速、高通量的优点,可在同一时间内平行分析大量基因组信息,这也使得其在生物进化、基因定位、分子育种等领域中得到广泛的应用。DNA甲基化芯片则是在此基础上衍生的产品,具有高特异性,可以针对特定的基因或位点进行检测,能够更准确地检测出特定区域的甲基化状态。同时甲基化芯片采用了固相探针技术,能够同时检测多个基因的甲基化状态,因此在样本通量较高的情况下,相对成本较低,并且甲基化芯片的操作相对简单,样本处理时间较短,适合于快速筛选和验证。在牛上,还未有DNA甲基化芯片的研发应用,只能利用传统的方法开展检测,一方面由于不能综合成本和分辨率两方面需求,会造成大量资金浪费;另一方面由于以上技术均有国外发明,会导致资本外流,受国外限制;这均在一定程度上阻碍了利用现代先进技术提升我国牛的生产水平。因此,开发牛的DNA甲基化检测芯片是促进我国牛产业进一步健康稳定发展的必需,具有重大的科学和应用价值。

发明内容

[0005] 为克服上述现有技术的不足,本发明提供了一种牛的23K甲基化芯片及其设计方法和应用,该芯片能够为牛的DNA甲基化检测、选择育种等领域和其他研究提供较好的研究基础和数据支撑,并进一步降低牛基因组选择的成本,加快我国优质牛品种改良的遗传进展,具有较好的社会价值和推广价值。

[0006] 为达到上述目的,本发明采用以下技术方案:

[0007] 第一方面,本发明提供了一种牛的甲基化变异位点组合在牛基因组DNA甲基化修饰检测、环境对性状的表观调控机制解析、经济性状候选基因的定位、遗传多样性分析、种质资源评价与改良、全基因组关联分析以及全基因组选择育种中的应用,所述牛的甲基化变异位点组合包括23525个甲基化变异位点,所述23525个甲基化变异位点的物理位置是基于ARS-UCD1.2参考基因组正链碱基确定的,所述23525个甲基化变异位点的物理位置信息如下:

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1_2898169	1_2923527	1_2995249	1_3026964	1_3028794	1_3158364	1_3189857	1_3503676	1_3526431	1_3545790
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1_674439043	1_67443558	1_67487278	1_67502359	1_67753817	1_67768672	1_67788633	1_67821777	1_67966843	1_67991542
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- [0038] 其中,位点编号中左侧表示位点所在的染色体,右侧表示位点在染色体上的位置。
- [0039] 第二方面,本发明提供了一套检测上述牛的甲基化变异位点组合的探针在牛基因组DNA甲基化修饰检测、环境对性状的表观调控机制解析、经济性状候选基因的定位、遗传多样性分析、种质资源评价与改良、全基因组关联分析以及全基因组选择育种中的应用。
- [0040] 第三方面,本发明提供了一种牛的23K甲基化芯片,所述甲基化芯片基因分型对象为上述牛的甲基化变异位点组合,所述甲基化芯片包含一套上述探针。
- [0041] 在以上技术方案中,所述甲基化芯片通过下述方法获得:
- [0042] S1:收集牛的原始全基因组甲基化测序数据,对数据进行质控,比对到牛的参考基因组ARS-UCD1.2,提取甲基化信息,获得原始的甲基化数据信息;
- [0043] S2:根据筛选出甲基化变异位点,根据样本组织来源,筛选组织间与组织内变化大的甲基化位点,结合位点在染色体上的位置,分析其上下游序列并设计测序引物,挑选能够用于芯片开发的甲基化变异位点;
- [0044] S3:运用甲基化捕获技术开发出所述甲基化芯片。
- [0045] 第四方面,本发明提供了上述甲基化芯片在牛基因组DNA甲基化修饰检测、环境对性状的表观调控机制解析、经济性状候选基因的定位、遗传多样性分析、种质资源评价与改良、全基因组关联分析以及全基因组选择育种中的应用。
- [0046] 第五方面,本发明提供了上述甲基化芯片的设计方法,具体包括如下步骤:
- [0047] S1,牛的全基因组甲基化测序数据的收集;
- [0048] S2,测序数据的质控、序列对比和甲基化信息提取;
- [0049] S3,组织间和组织内差异甲基化区间的比较;
- [0050] S4,对所有的甲基化差异位点进行整合筛选;
- [0051] S5,根据所有候选位点进行甲基化芯片的定制。
- [0052] 在以上技术方案中,S1的具体过程为:在NCBI上查找家牛的测序信息,根据NCBI提供的登录号,用SRAtoolkit软件中的prefetch工具从NCBI数据库下载SRA文件,或使用ascp

从EBI数据库下载fastq文件。

[0053] 在以上技术方案中,S2的具体过程为:对原始的测序数据fastq格式文件用trim_galore软件去除接头序列和低质量的读长序列(reads),使用--fastqc_args参数指定了fastqc工具的执行参数,用于在修剪后立即进行质量控制检查,获得高质量的reads信息;

[0054] 使用bismark工具将通过质量控制的序列信息比对到家牛的参考基因组ARS-UCD1.2,使用deduplicate_bismark方法对比对结果进行去重处理,使用bismark_methylation_extractor方法从去重后的数据中提取位点的甲基化信息。

[0055] 在以上技术方案中,S3的具体过程为:通过S2处理的甲基化数据文件,按照组织来源进行分组,两两组合,过滤reads深度小于10的位点后,分别使用methylKit软件检测两个组织间差异甲基化区间和差异甲基化位点。在相同组织内,以1000bp为区间计算区间的平均甲基化水平,提取在同一区间内相同组织的不同样本存在显著差异的区间,获得组织内的差异甲基化区间;

[0056] 其中,对组织间甲基化区间,选择同时在多个组织间均为差异甲基化的区间,对组织内甲基化区间的同一区间在不同样本中的平均甲基化水平同时存在大于0.8和小于0.2的区间记为组织内高差异甲基化区间,对组织内甲基化区间的同一区间在不同样本中的平均甲基化水平相差在0.5以上记为组织内相对差异甲基化区间。

[0057] 在以上技术方案中,S4中整合筛选的具体步骤为:

[0058] S41,根据S3挑选的组织间和组织内差异甲基化区间,与基因组区间、功能元件、QTL进行注释,主要保留落在基因组区间、功能元件、QTL区域的区间;

[0059] S42,对组织间差异区间,根据组织间差异位点与差异区间在不同组织间比较的情况,选择前五的差异位点作为备选位点;

[0060] S43,对组织内差异区间,提取其中的CG位点作为备选位点;

[0061] S44,将备选位点进行深度过滤,筛选深度过小和深度过大位点;

[0062] S45,对每个差异区间,选择存在该区间的所有样本,计算该区间内的备选位点和差异区间的相关系数,以0.8的相关系数作为标准,筛选相关系数过低的备选位点,在每个差异区间中选择相关系数最高的备选位点;

[0063] S46,添加部分与生长性状相关的QTL区间作为补充,根据S44和S45方法选择QTL区间内高相关性位点;

[0064] S47,将S45和S46获得的高相关系数位点进行整合,筛选距离在2kb以内的位点,将一个基因中多个位点根据注释情况进行筛选保留注释情况良好的位点;

[0065] S48,对S47获得的差异甲基化位点进行探针设计,设计的规则为:探针性能从GC含量(20% - 80%)、Tm值(60-80°C)、连续重复碱基数量(≤ 25 nt)、参考基因组上的比对次数(≤ 5)这些方面进行综合评价,选取评价指标最优的探针进行生产,探针长度为120nt,最终探针设计成功的差异甲基化位点作为整合筛选出的最终的差异甲基化位点。

[0066] 本发明的有益效果在于:

[0067] 1、本发明牛的23K甲基化芯片涉及到多个品种的多个组织,设计的芯片具有品种多样性和组织特异性。该芯片中不仅包含了本发明中检测到的差异甲基化位点,还额外添加了生长性状相关QTL中的CG位点,这些位点能够与牛的重要经济性状直接关联,减少了多余和无关的CG数量,降低了成本,在牛分子育种中更具应用价值。

[0068] 2、本发明对差异甲基化区间进行筛选时,同时考虑了组织间差异区间和组织内差异区间,使用不同的筛选策略进行区间筛选,并在筛选过程中将功能区间注释纳入考量,此外,与生长性状相关的QTL区域对差异甲基化区间进行了补充。对于待选的差异甲基化区间,选择多重步骤选择区间内的代表性甲基化位点,作为探针设计位点,从而达到全面地比较各类组织的DNA甲基化水平。

[0069] 3、本发明芯片能够为牛基因组DNA甲基化修饰检测、选择育种等领域和其他研究提供较好的研究基础和数据支撑,并进一步降低牛基因组选择的成本,加快我国优质牛品种改良的遗传进展,具有较好的社会价值和推广价值。

附图说明

[0070] 图1是本发明甲基化芯片位点整合筛选部分流程图;

[0071] 图2是甲基化芯片位点的染色体分布图。

具体实施方式

[0072] 为了更好地说明本发明的目的、技术方案和优点,下面将结合具体实施例对本发明做进一步描述。本发明可以以许多不同的形式实施,而不应该被理解为限于在此阐述的实施例。

[0073] 如图1-2所示,本发明提供了一种牛的23K甲基化芯片及其设计方法和应用,该甲基化芯片的具体设计方法包括以下步骤:

[0074] S1,牛的二代全基因组测序数据的收集。

[0075] 共收集了15个牛品种28种组织279个样本的原始全基因组甲基化测序数据,从NCBI (National Center for Biotechnology Information, <https://www.ncbi.nlm.nih.gov/>) 下载收集。

[0076] 其中,15个牛品种包括:Angus、Asturian Valley x Holstein、Asturian Valley x Limousin、Brangus、Brangus-Angus、Charolais、Chinese Red Steppes、Hereford、Holstein、Japaneseblack (Wagyu)、Sanjiang cattle、Shorthorn crossbred、Shuxuan、Simmental、Tibetan cattle。

[0077] 28种组织包括:脂肪、肾上腺、血液、骨头、乳房、大脑皮层、耳朵、胚胎干细胞、胎儿骨骼肌、纤维原细胞、心脏、下丘脑、回肠、肾脏、肝脏、肺、肌肉、卵巢、脑垂体、胎盘、瘤胃、体细胞、精子、脾脏、基质血管细胞、睾丸、舌头、子宫。

[0078] 在NCBI上查找家牛的测序信息,根据NCBI提供的登录号,用SRAtoolkit软件中的prefetch工具从NCBI数据库下载SRA文件,或使用ascp从EBI数据库下载fastq文件。

[0079] S2,测序数据的质控和序列对比。

[0080] 对原始的测序数据fastq格式文件用trim_galore软件去除接头序列和低质量的读长序列(reads),使用--fastqc_args参数指定fastqc工具的执行参数,用于在修剪后进行质量控制检查,获得高质量的reads信息。

[0081] 采用Bismark底层调用Bowtie2进行甲基化数据的参考基因组的比对分析。Bismark将测序的结果和参考基因组都进行了C到T和G到A(反向互补)的转化,将转化后的测序结果和基因组分别进行两两比对,将所有的比对结果输出。具体操作为使用bismark工

具将通过质量控制的序列信息比对到家牛的参考基因组ARS-UCD1.2,使用deduplicate_bismark方法对比对结果进行去重处理,使用bismark_methylation_extractor方法从去重后的数据中提取甲基化位点。

[0082] S3,组织间和组织内差异甲基化区间的比较。

[0083] 使用S2处理得到的甲基化数据文件,根据组织来源进行分组。这意味着将同一组织来源的数据归为一组,以便于后续的比较和分析。将分组的甲基化数据两两组合,形成不同的组织对比对。这样可以比较不同组织间的甲基化差异。在进行差异甲基化分析之前,需要过滤掉reads深度小于10的位点。这是因为深度较小的位点可能由于测序数据量不足而导致分析结果不稳定,确保分析结果的可靠性。使用methylKit软件可以检测两个组织间的差异甲基化区间和差异甲基化位点,该软件可以检测两个组别中基因组甲基化水平存在显著差异的区域和微单,用于发现不同组织间的甲基化模式和特点。对组织间甲基化区间,选择同时在多个组织间均为差异甲基化的区间作为组织间差异甲基化区间。

[0084] 为了进一步探索组织内的甲基化差异,对相同组织内的数据进行更深层次的分析。以1000bp为区间,计算每个区间的平均甲基化水平。这个步骤有助于我们了解不同区间内的甲基化情况。对组织内甲基化区间的同一区间在不同样本中的平均甲基化水平同时存在大于0.8和小于0.2的区间记为组织内高差异甲基化区间,对组织内甲基化区间的同一区间在不同样本中的平均甲基化水平相差在0.5以上记为组织内相对差异甲基化区间。

[0085] S4,对所有的甲基化差异位点进行整合筛选。主要筛选过程包括以下步骤:

[0086] S41,根据S3挑选的组织间和组织内差异甲基化区间,与基因组区间、功能元件、QTL进行注释,主要保留保留在基因组区间、功能元件、QTL区域的区间,作为初步探究的甲基化差异区间。

[0087] S42,对组织间差异区间,根据组织间差异位点与差异区间在不同组织间比较的情况,选择前五的差异位点作为备选位点。比较情况具体表现为差异甲基化位点和差异甲基化区间在不同的组织间比较组合中的分布的符合情况。

[0088] S43,对组织内差异区间,提取其中的CG位点作为备选位点。

[0089] S44,将备选位点进行深度过滤,筛选深度过小和深度过大位点。深度最小值10,深度最大值200。

[0090] S45,对每个差异区间,选择存在该区间的所有样本,计算该区间内的备选位点和差异区间的相关系数,以0.8的相关系数作为标准,筛选相关系数过低的备选位点,在每个差异区间中选择相关系数最高的备选位点。

[0091] S46,添加部分与生长性状相关的QTL区间作为补充,根据S44和S45方法选择QTL区间内高相关性位点,获得的位点是差异甲基化位点的补充,也是为了更好地应用于遗传育种实践。

[0092] S47,将S45和S46获得的高相关系数位点进行整合,筛选距离在2kb以内的位点,将一个基因中多个位点根据注释情况进行筛选保留注释情况良好的位点。避免挑选位点距离过近和在部分基因中过度集中,有助于使最终挑选的位点分布广泛均匀,更好地检测DNA甲基化。

[0093] S48,对S47获得的差异甲基化位点进行探针设计,设计的规则为:探针性能从GC含量(20% - 80%)、Tm值(60-80°C)、连续重复碱基数量(≤25nt)、参考基因组上的比对次数

(≤5) 这些方面进行综合评价,选取评价指标最优的探针进行生产,探针长度为120nt,最终探针设计成功的差异甲基化位点作为整合筛选出的最终的差异甲基化位点,位点的具体信息见上表所示。

[0094] S5,根据所有候选位点进行甲基化芯片的定制。

[0095] 根据所有23525个候选位点进行甲基化芯片的定制。将筛选出的最终候选位点提交至北京康普森农业有限公司进行确认和定制。

[0096] 显然,上述实施例仅仅是为清楚地说明所作的举例,而并非对实施方式的限定。对于所属领域的普通技术人员来说,在上述说明的基础上还可以做出其它不同形式的变化或变动。这里无需也无法对所有的实施方式予以穷举。而由此所引伸出的显而易见的变化或变动仍处于本发明创造的保护范围之中。

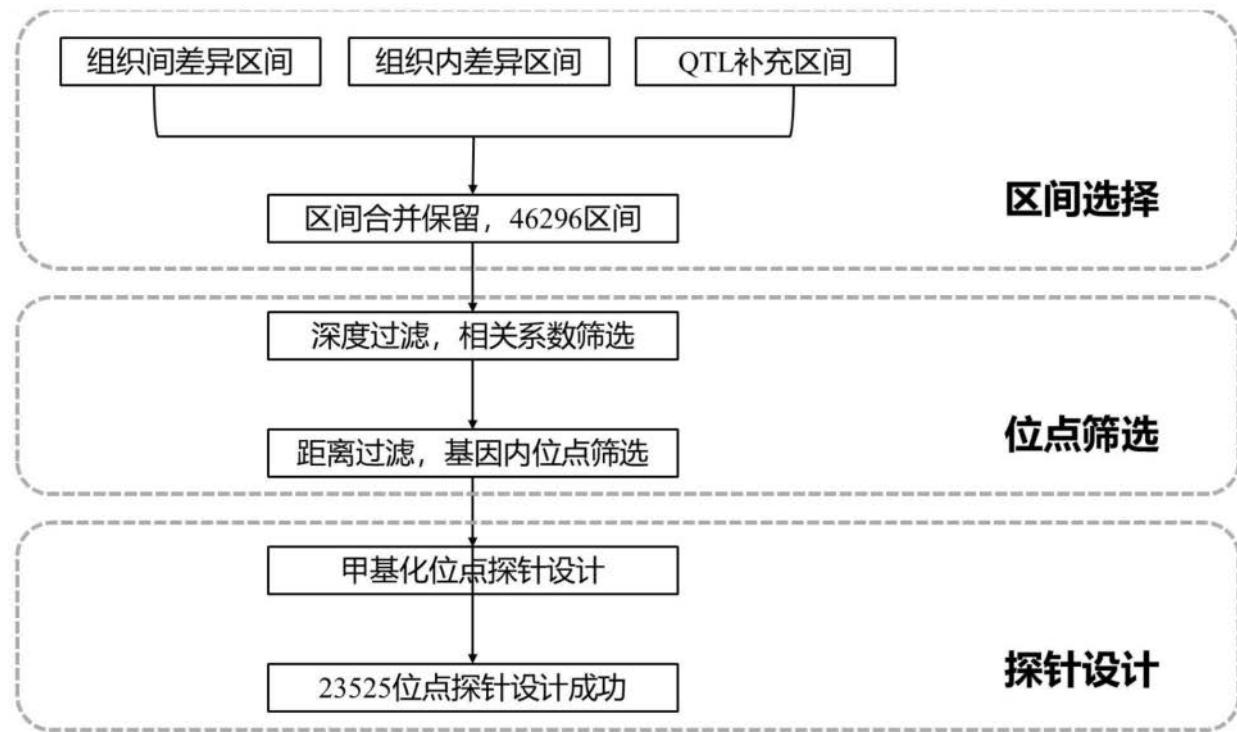


图1

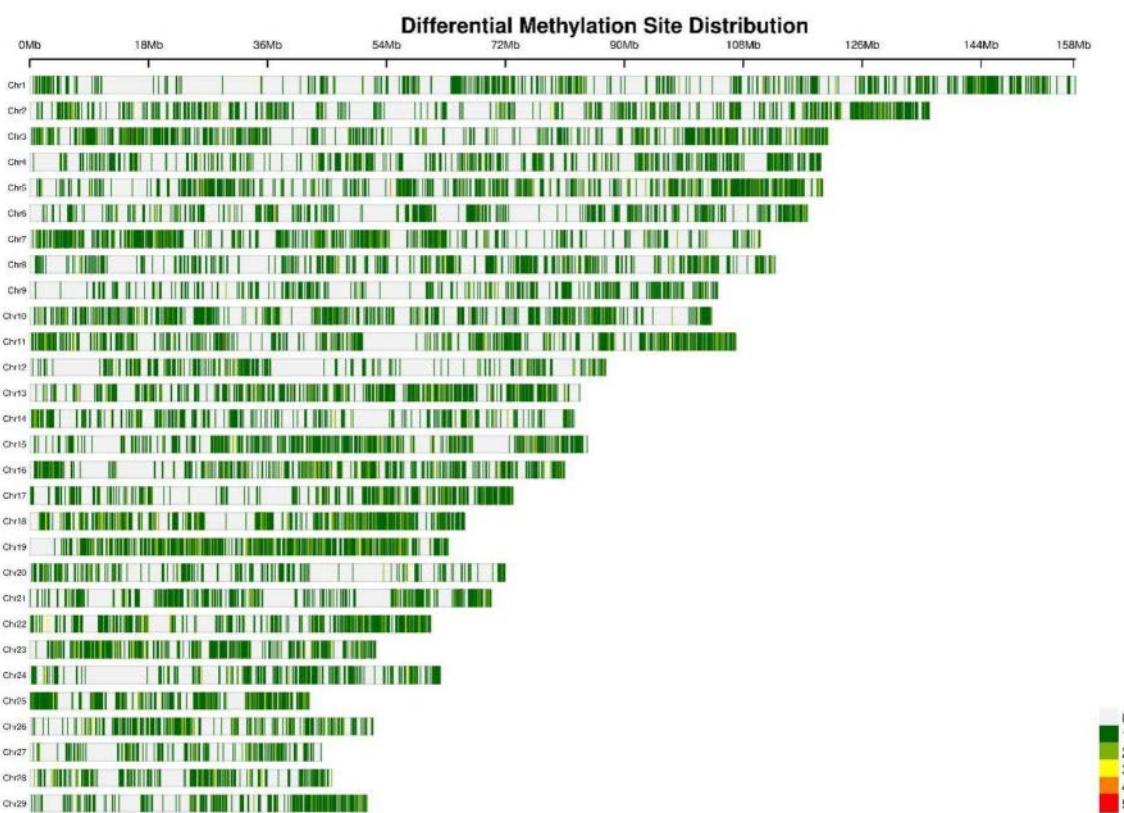


图2