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Position Reverse complement ☐Letters per line Default case: ☒ Upper ☐ Lower

Track Name	Toggle Case	Under-line	Bold	Italic	Red	Green	Blue
Common SNPs(151)	☐	☐	☐	☐	0	0	0
Conservation	☐	☐	☐	☐	0	0	0
CpG Islands	☒	☐	☐	☐	0	0	0
GTEx Gene	☐	☐	☐	☐	0	0	0
Publications	☐	☐	☐	☐	0	0	0
RepeatMasker	☒	☐	☐	☐	0	0	0
UCSC Genes	☐	☐	☐	☐	0	0	0
DNase Clusters	☐	☐	☐	☐	0	0	0
Txn Factor ChIP	☒	☐	☐	☐	0	0	0
GTRx Combined eQTL	☐	☐	☐	☐	0	0	0
NCBI RefSeq	☐	☐	☐	☐	0	0	0
Master DNaseI HS	☐	☐	☐	☐	0	0	0
Uniform DNaseI HS	☐	☐	☐	☐	0	0	0
ENCODE 3 TFBS	☐	☐	☐	☐	0	0	0
Uniform TFBS	☒	☐	☐	☐	0	0	0
Other RefSeq	☐	☐	☐	☐	0	0	0
Open Chrom Synth	☐	☐	☐	☐	0	0	0
Affy U95	☐	☐	☐	☐	0	0	0
Affy U133	☐	☐	☐	☐	0	0	0
Human ESTs	☐	☐	☐	☐	0	0	0
All SNPs(151)	☐	☐	☐	☐	0	0	0
Spliced ESTs	☒	☐	☐	☐	0	0	0
GENCODE V31lift37	☐	☐	☐	☐	0	0	0
GENCODE Genes V19	☒	☐	☐	☐	0	0	0
Broad ChromHMM	☐	☐	☐	☐	0	0	0
CD34 DnaseI	☐	☐	☐	☐	0	0	0
Chromosome Band (Ideogram)	☐	☐	☐	☐	0	0	0
Ensembl Genes	☐	☐	☐	☐	0	0	0
Genome Segments	☐	☐	☐	☐	0	0	0
GWAS Catalog	☐	☐	☐	☐	0	0	0
HAIB Methyl RRBS	☐	☐	☐	☐	0	0	0
HAIB Methyl450	☐	☐	☐	☐	0	0	0

FIG. 1

SUBSTITUTE SHEET (RULE 26)

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Position chrY:6,733,959-6,742,068  Reverse complement ☐Letters per line Default case: ☒ Upper ☐ Lower

Track Name	Toggle Case	Under-line	Bold	Italic	Red	Green	Blue
Interrupted Rpts	☒	☐	☐	☐	0	0	0
LaminB1 (Tig3)	☐	☐	☐	☐	0	0	0
Microsatellite	☒	☐	☐	☐	0	0	0
NKI LADS Tig3)	☐	☐	☐	☐	0	0	0
ORegAnno	☒	☐	☐	☐	0	0	0
Segmental Dups	☐	☐	☐	☐	0	0	0
Simple Repeats	☒	☐	☐	☐	0	0	0
SNPedia	☐	☐	☐	☐	0	0	0
SUNY RIP GeneST	☐	☐	☐	☐	0	0	0
SUNY RIP Tiling	☐	☐	☐	☐	0	0	0
SUNY SwitchGear	☐	☐	☐	☐	0	0	0
SwitchGear TSS	☐	☐	☐	☐	0	0	0
TFBS Conserved	☒	☐	☐	☐	0	0	0
TS miRNA sites	☐	☐	☐	☐	0	0	0
UMass 5C	☐	☐	☐	☐	0	0	0
UNC FAIRE	☐	☐	☐	☐	0	0	0
Vista Enhancers	☒	☐	☐	☐	0	0	0

FIG. 1 (cont'd)

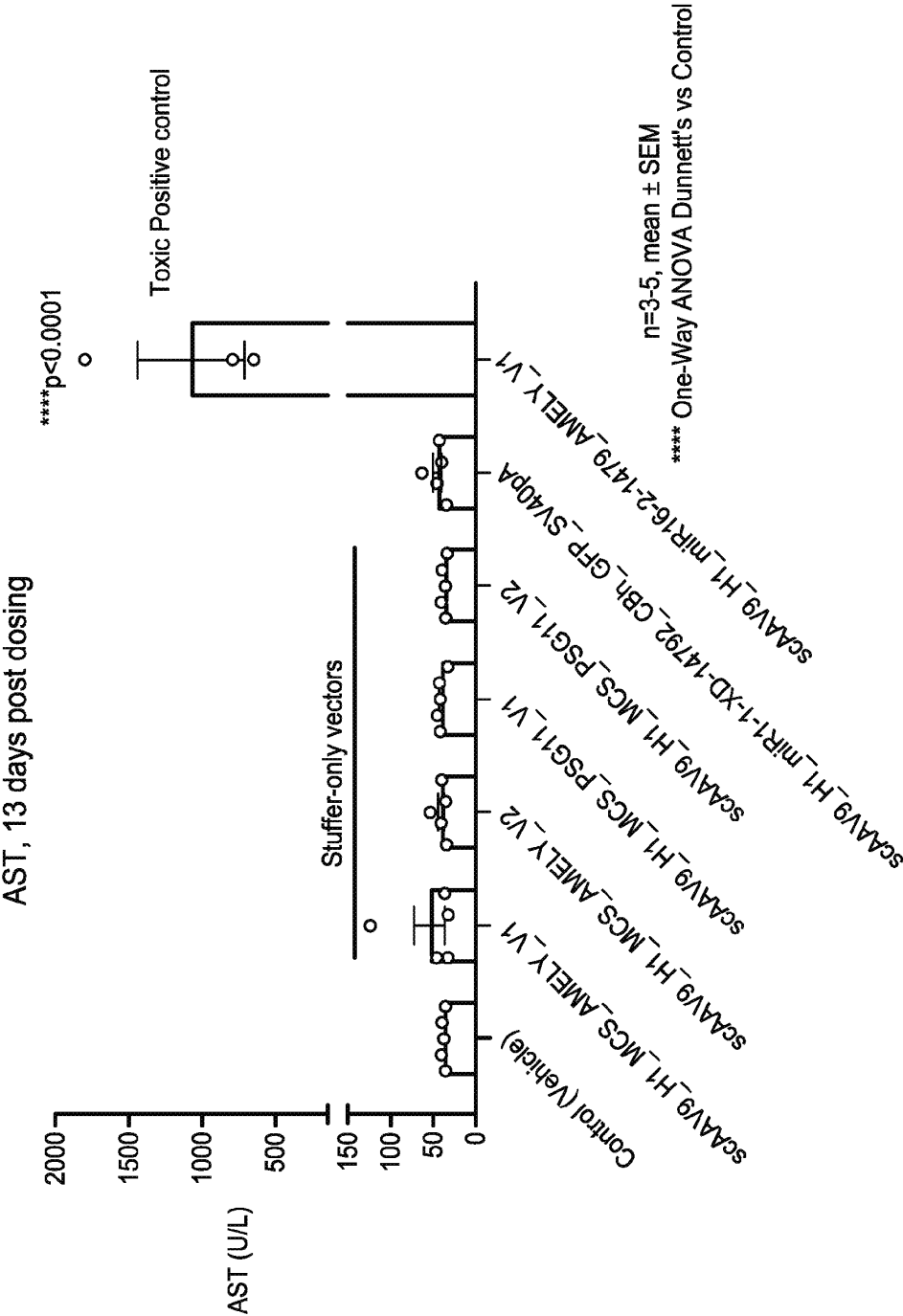


FIG. 2A

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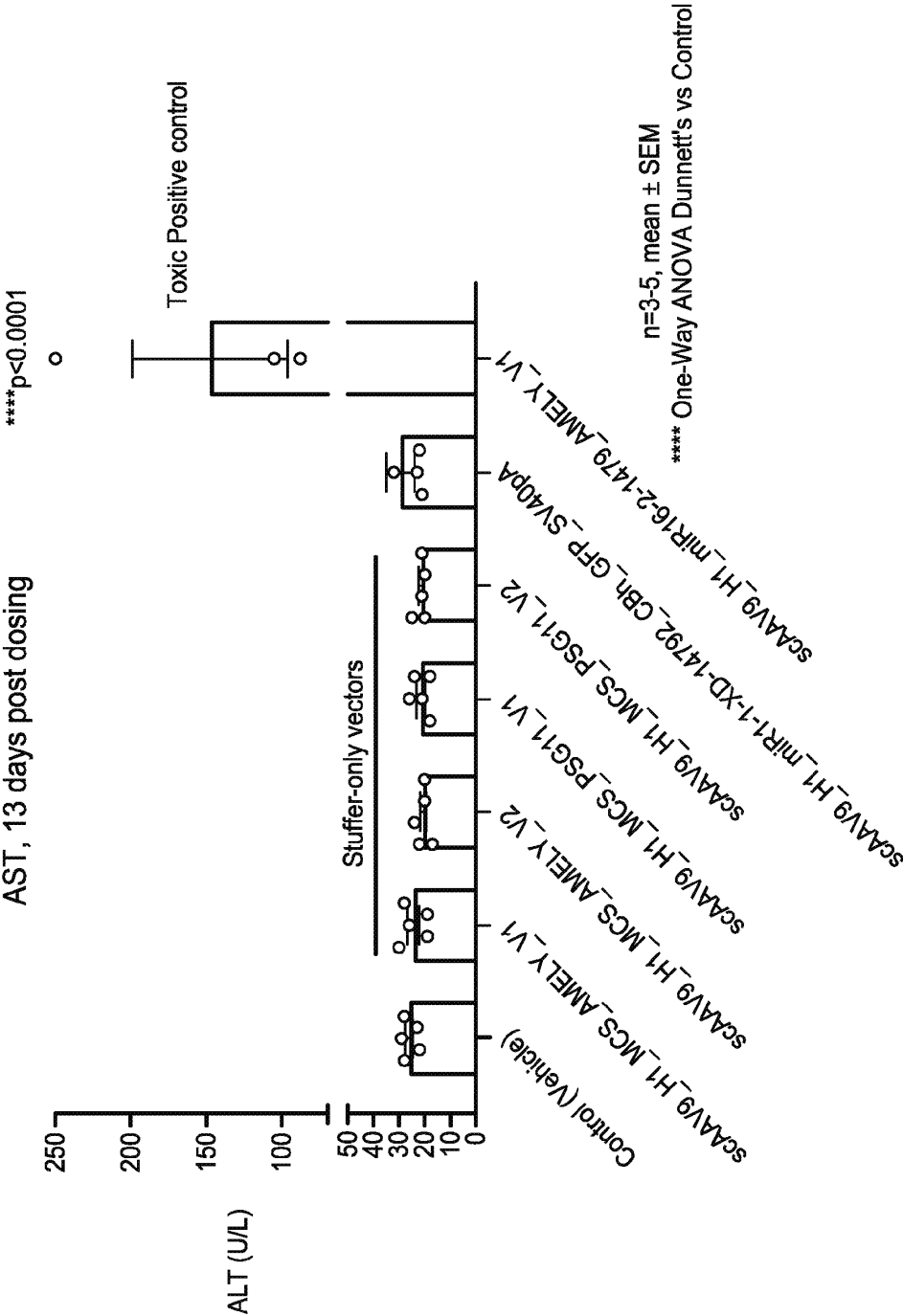


FIG. 2B

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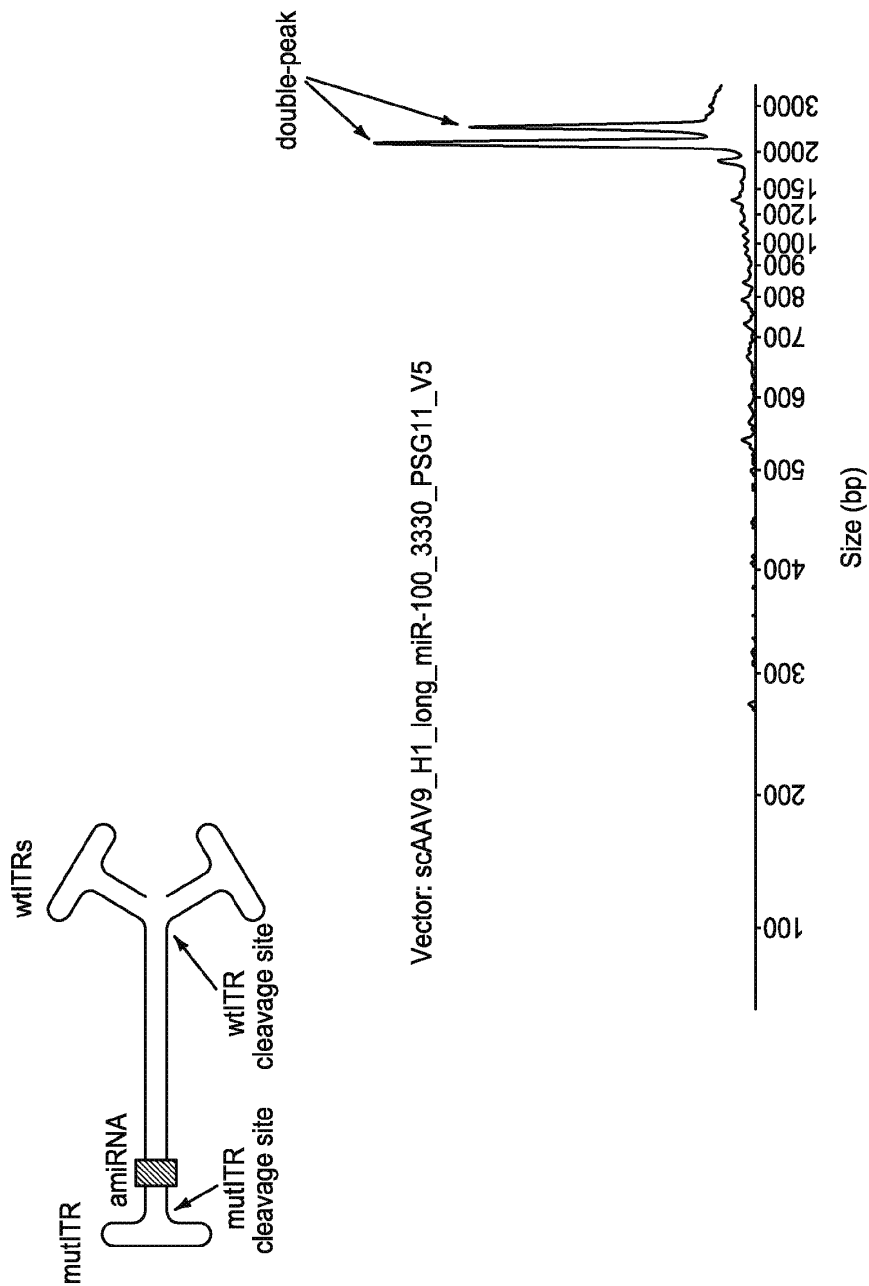


FIG. 3A

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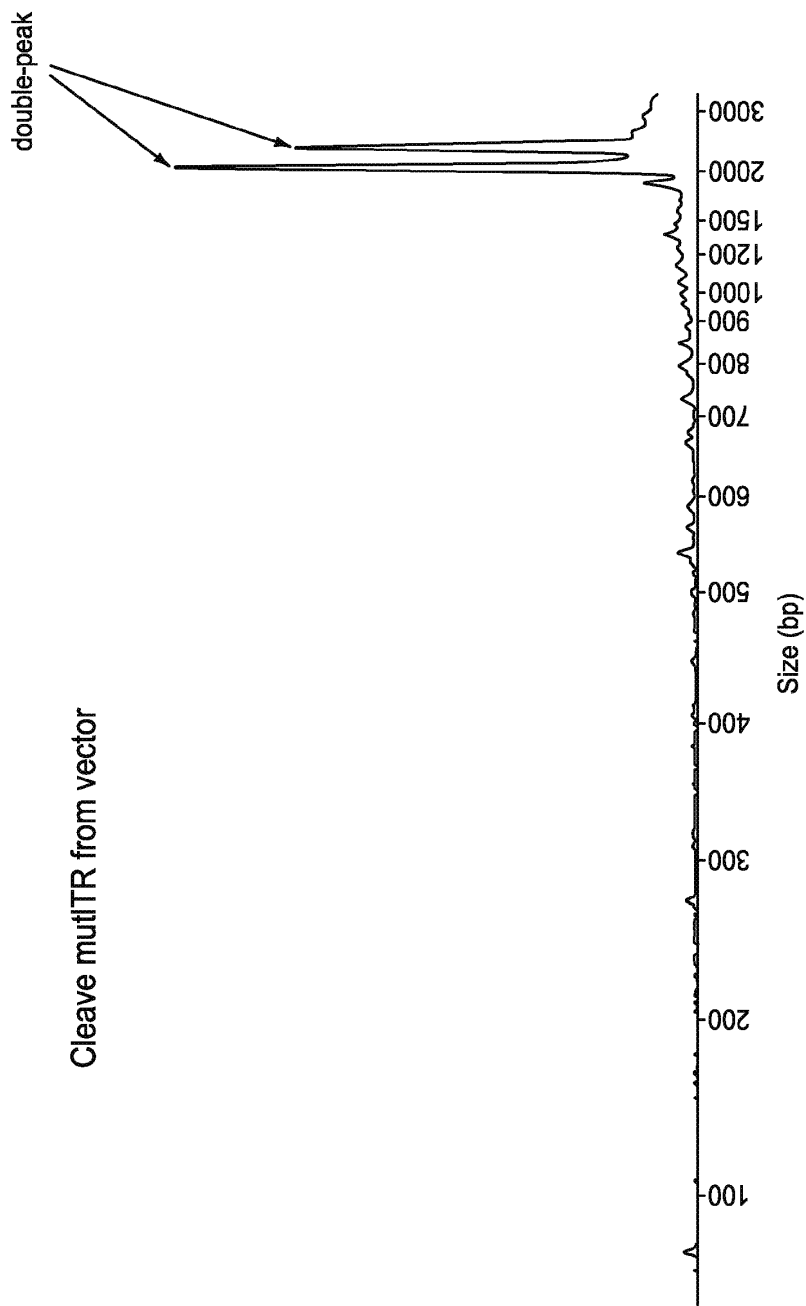


FIG. 3B

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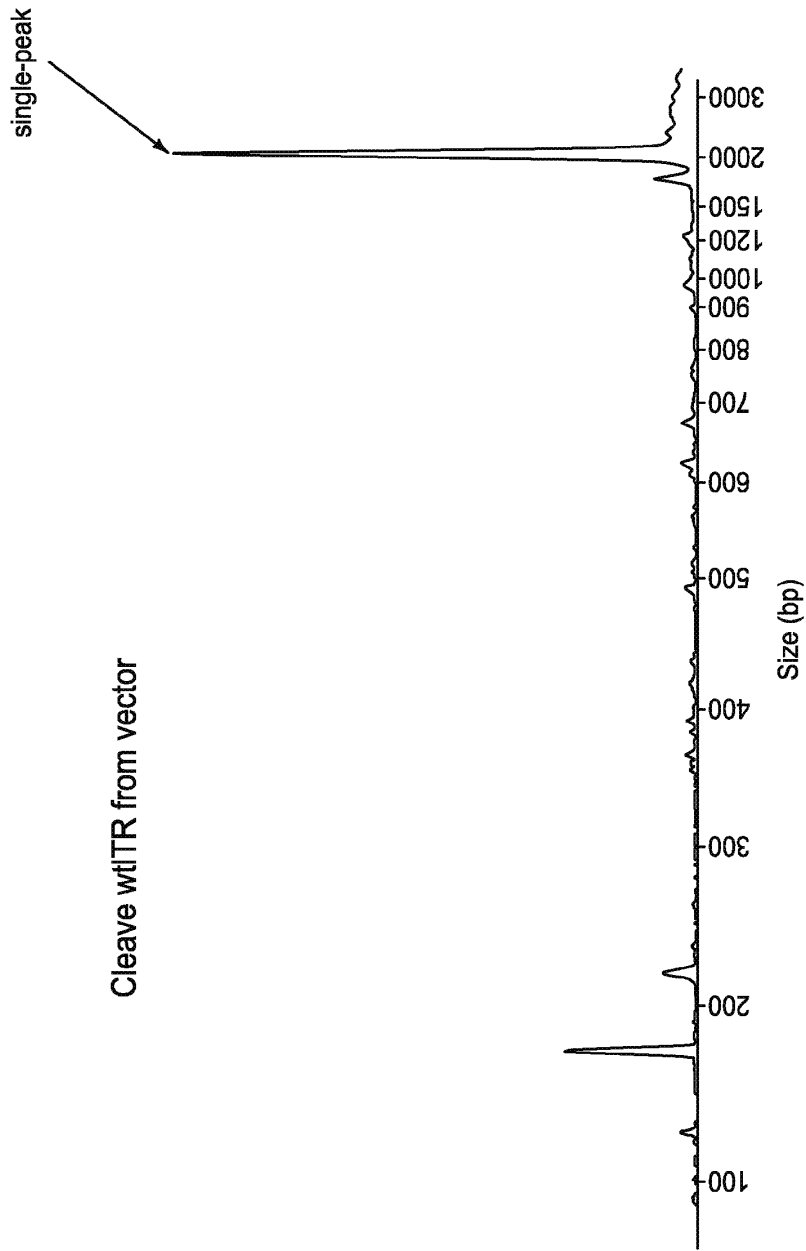
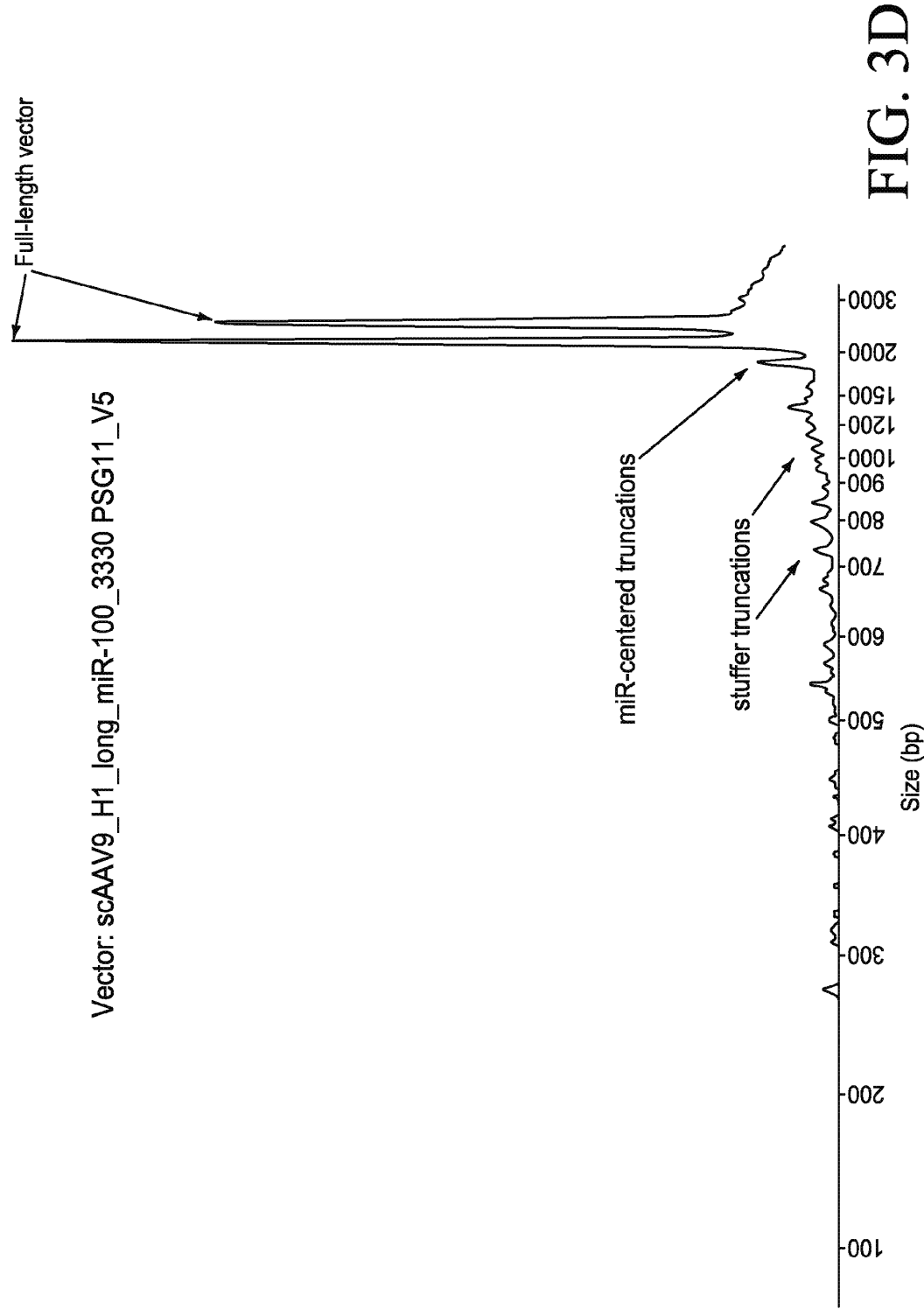


FIG. 3C

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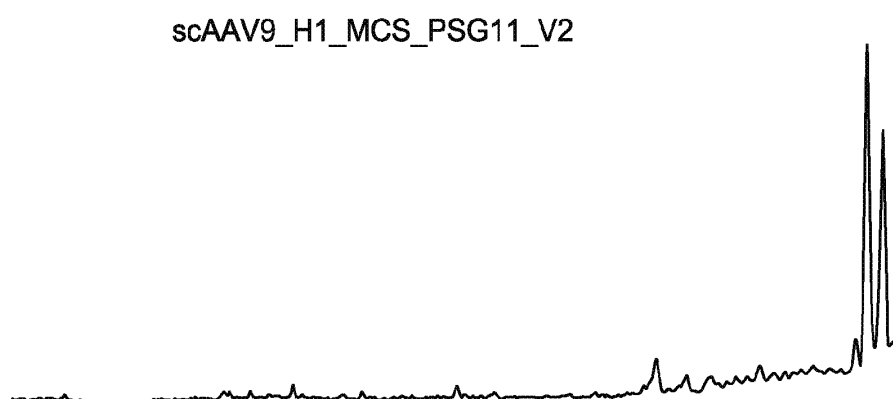
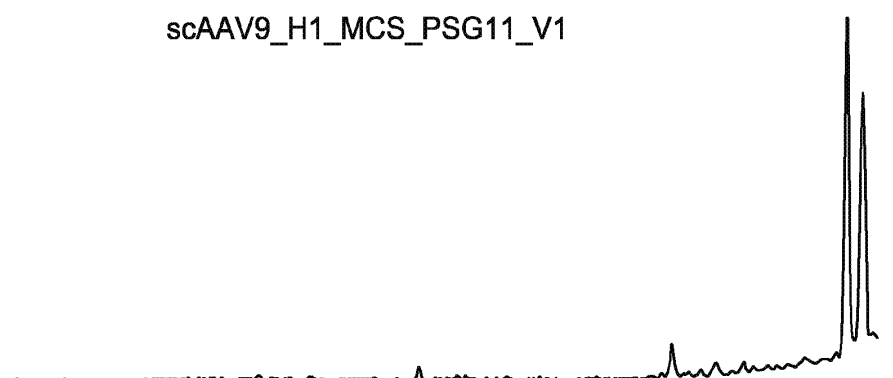


FIG. 3E

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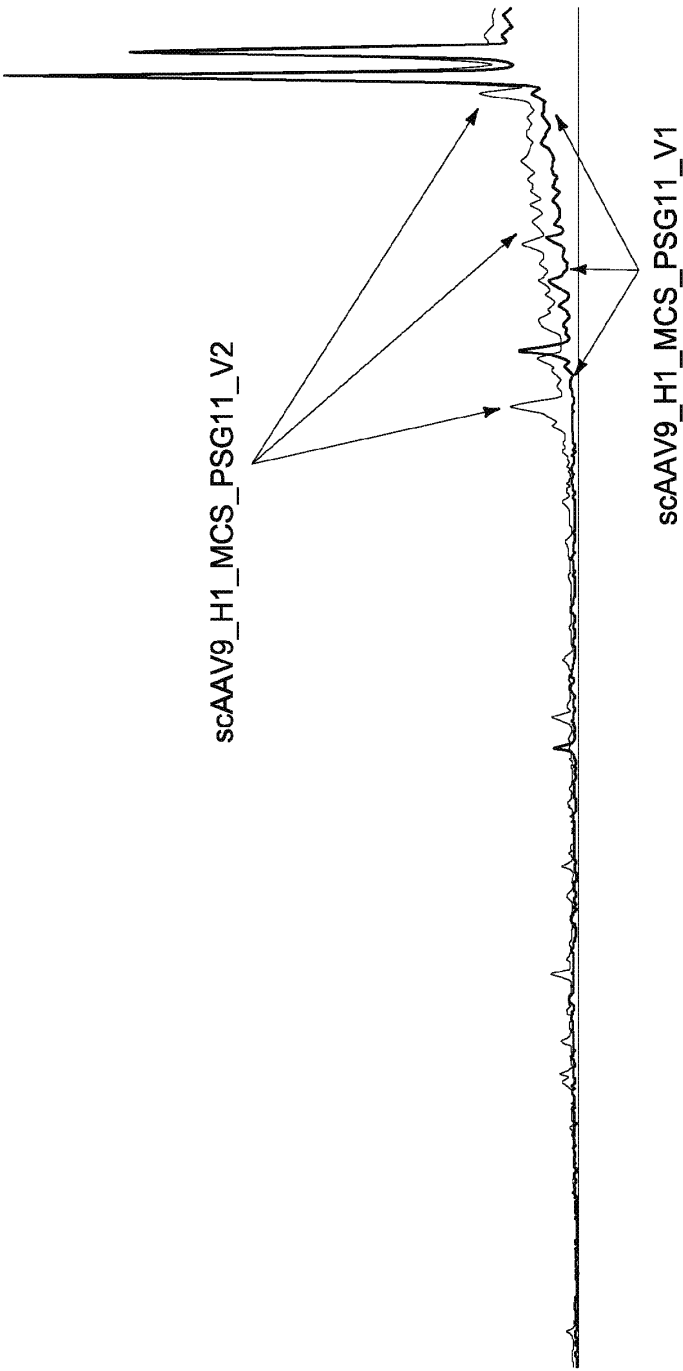


FIG. 3F

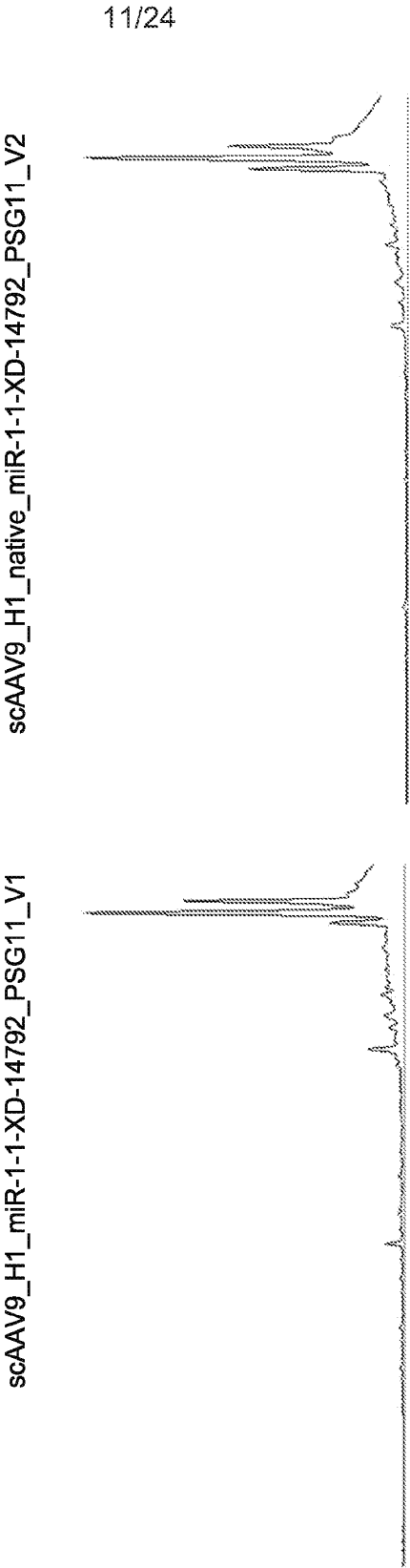


FIG. 3G

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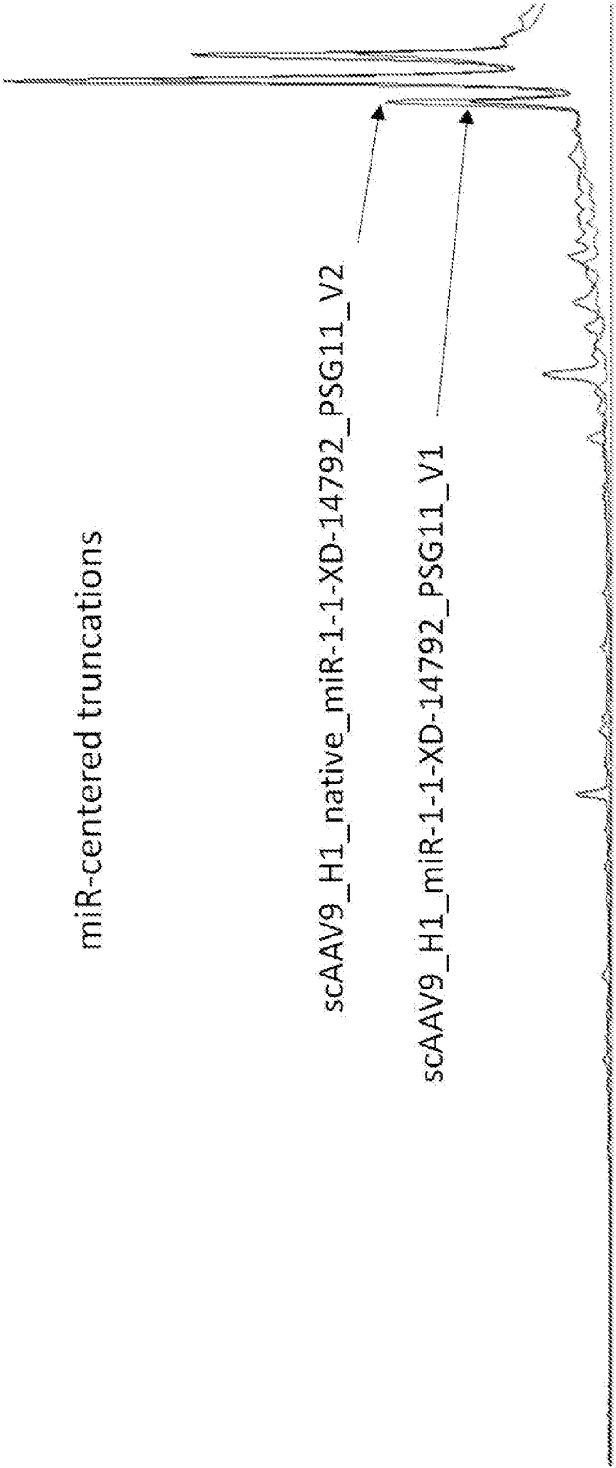


FIG. 3H

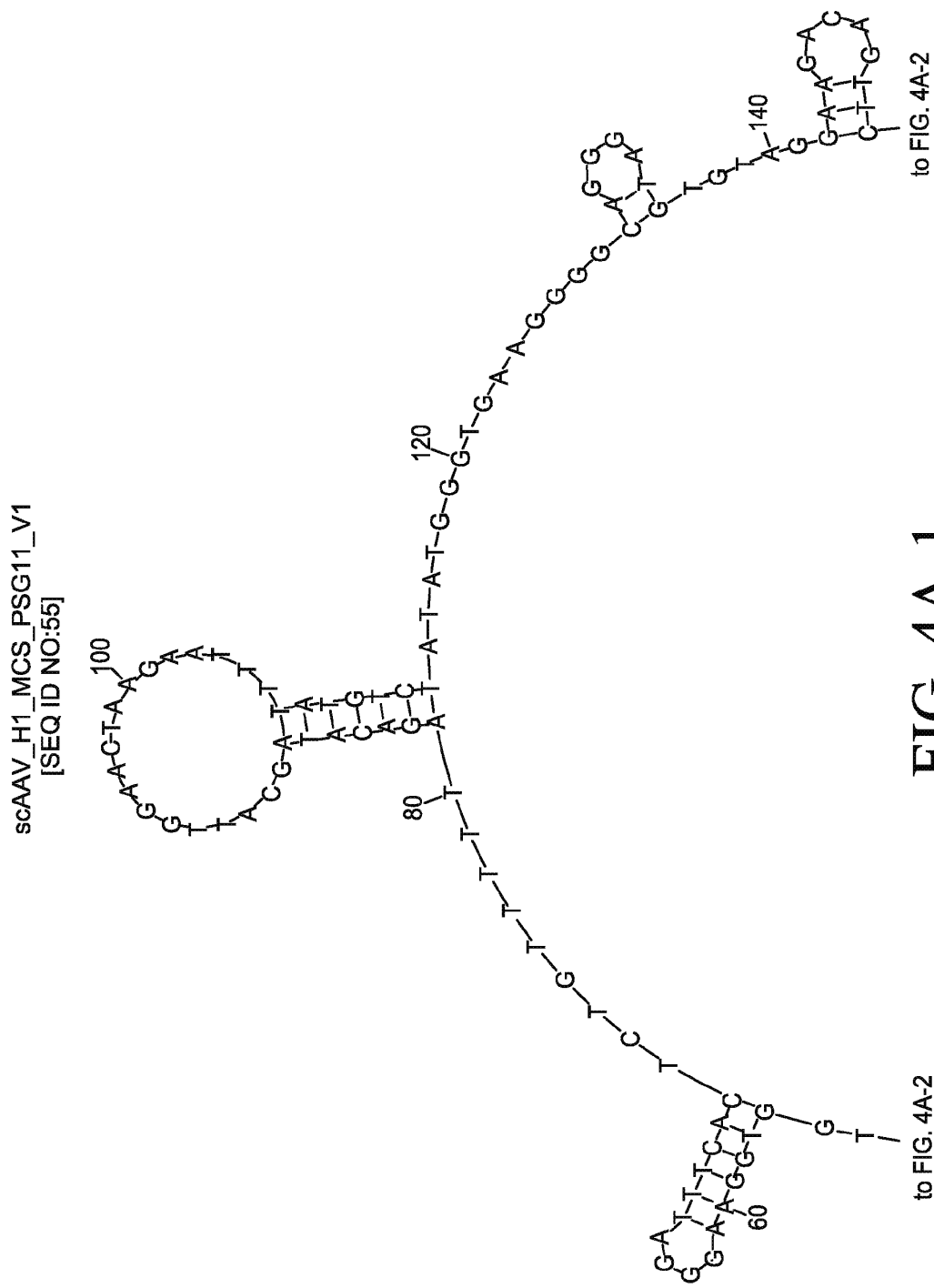
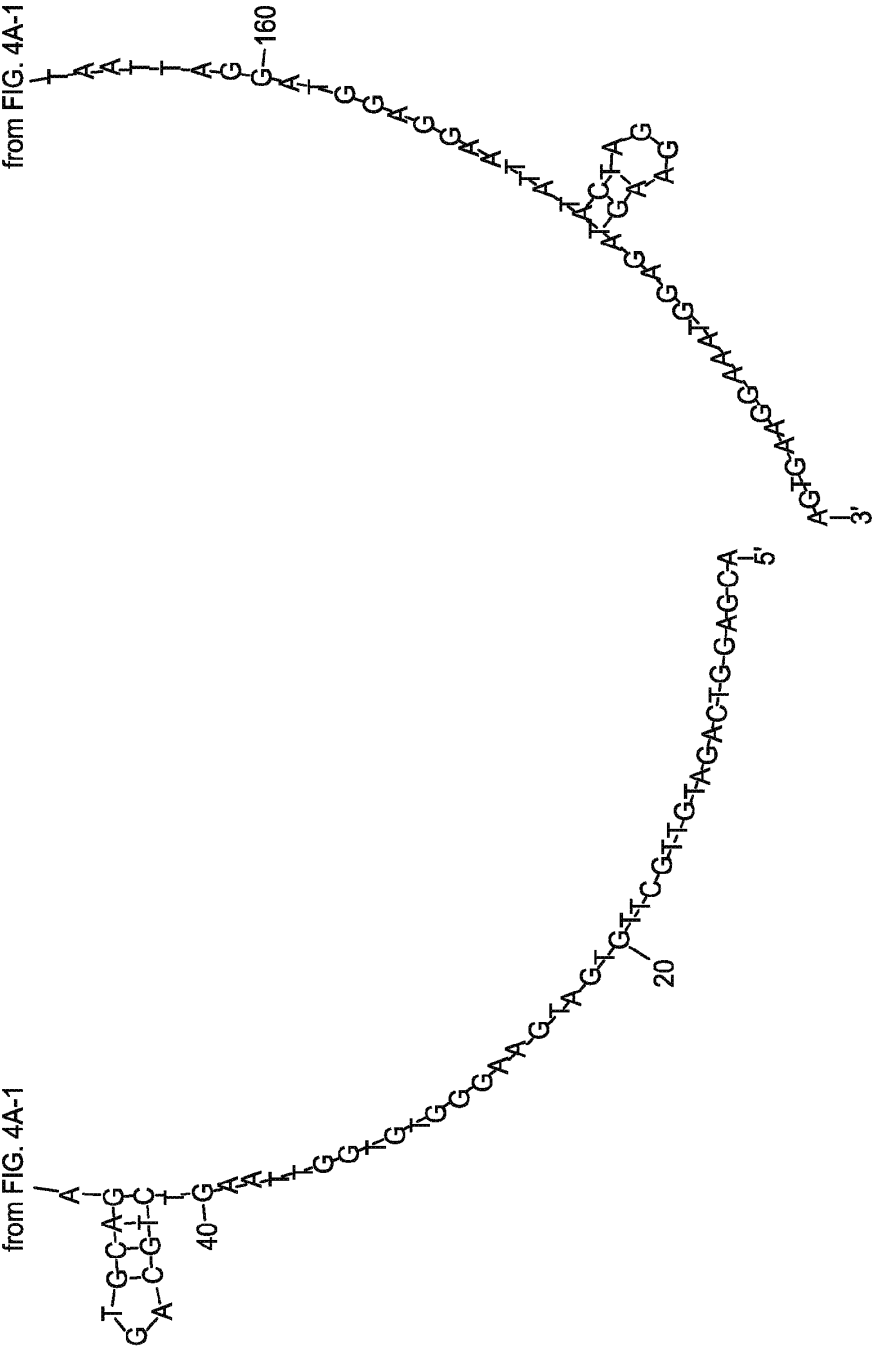


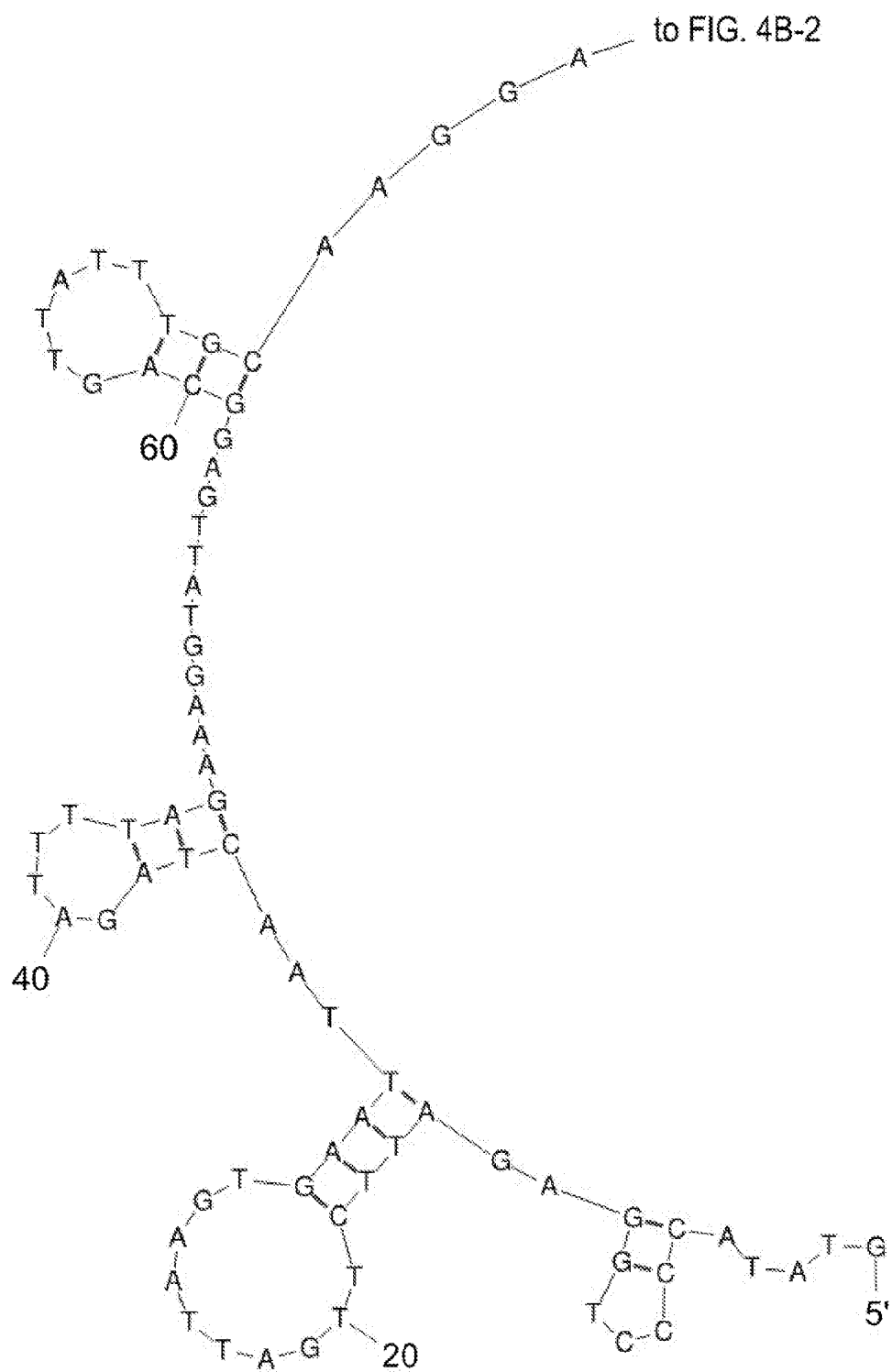
FIG. 4A-1



dG = -11.45

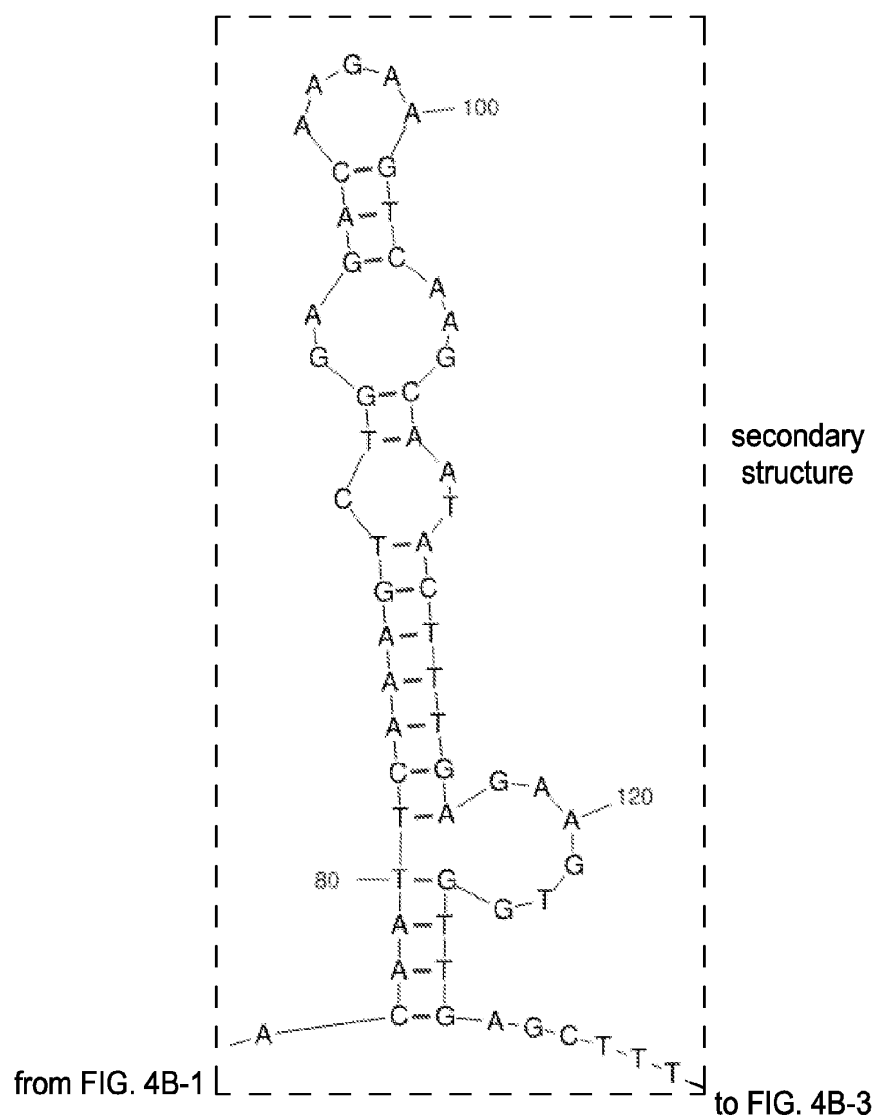
FIG. 4A-2

FIG. 4B-1



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scAAV_H1_MCS_PSG11_V2
[SEQ ID NO:56]

**FIG. 4B-2**

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from FIG. 4B-2

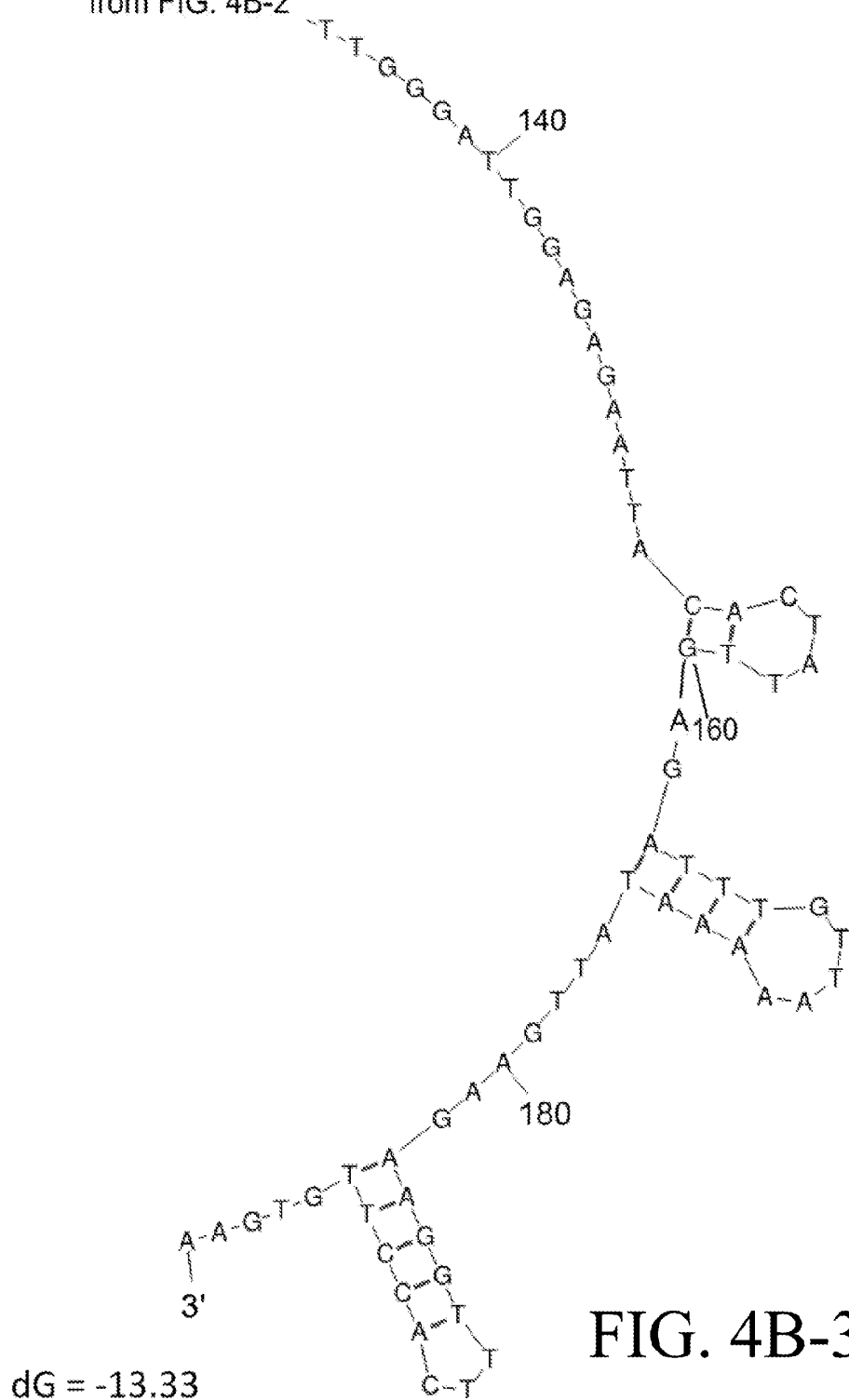


FIG. 4B-3

SUBSTITUTE SHEET (RULE 26)

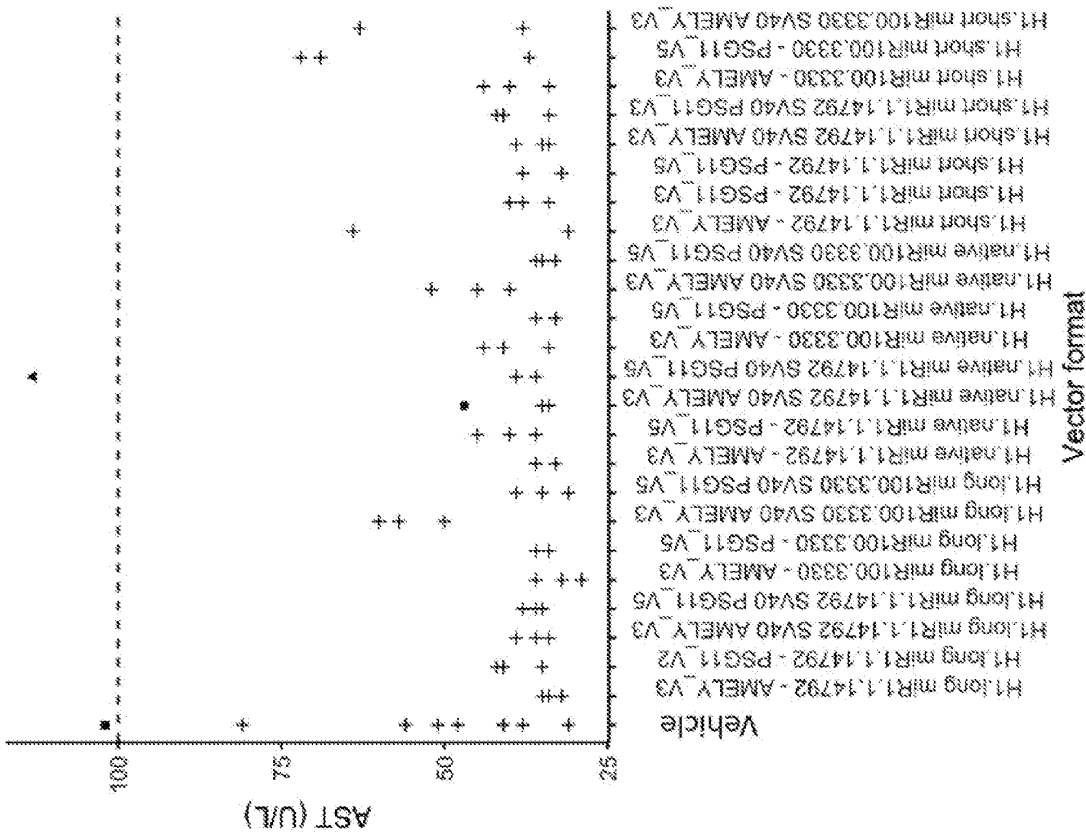


FIG. 5A

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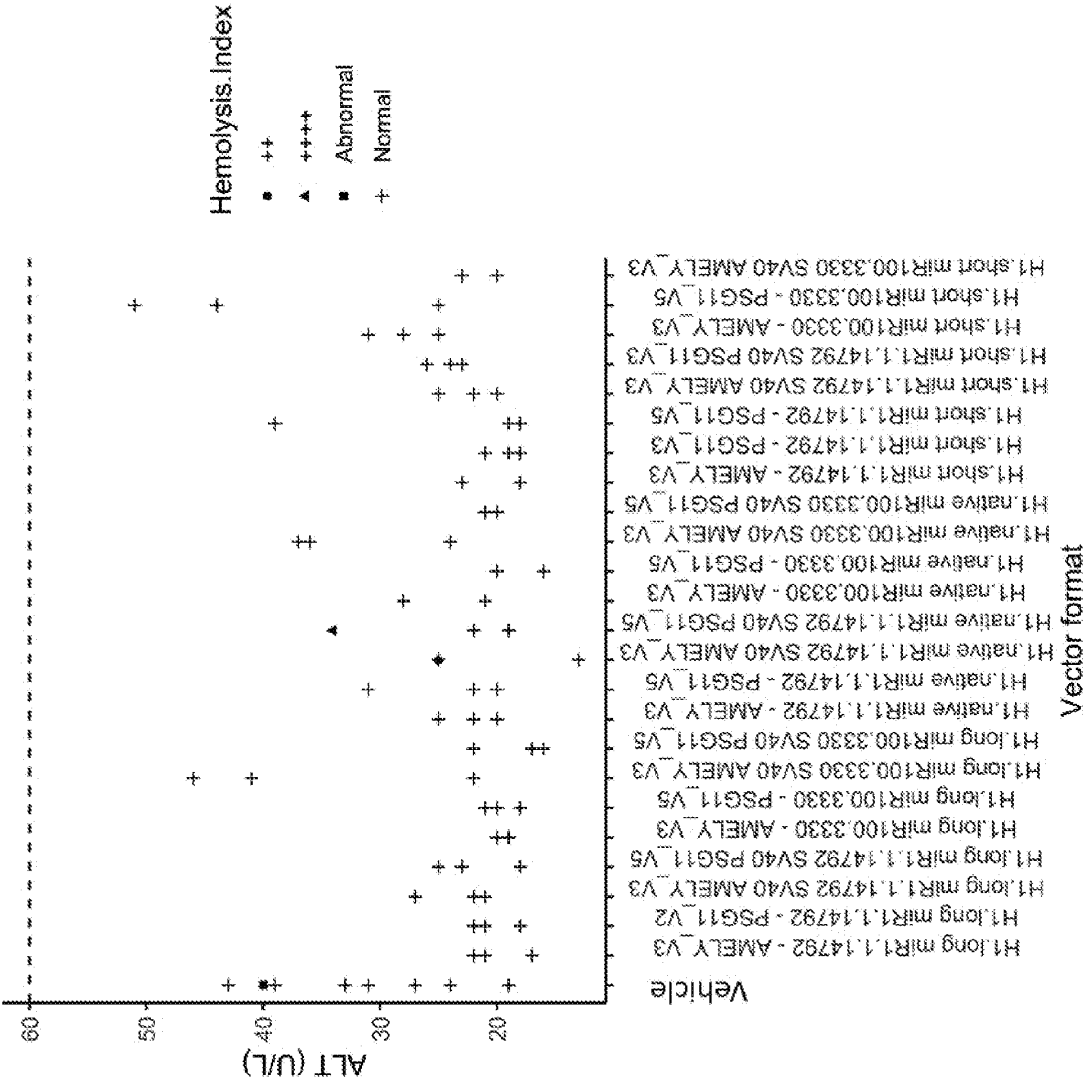


FIG. 5B

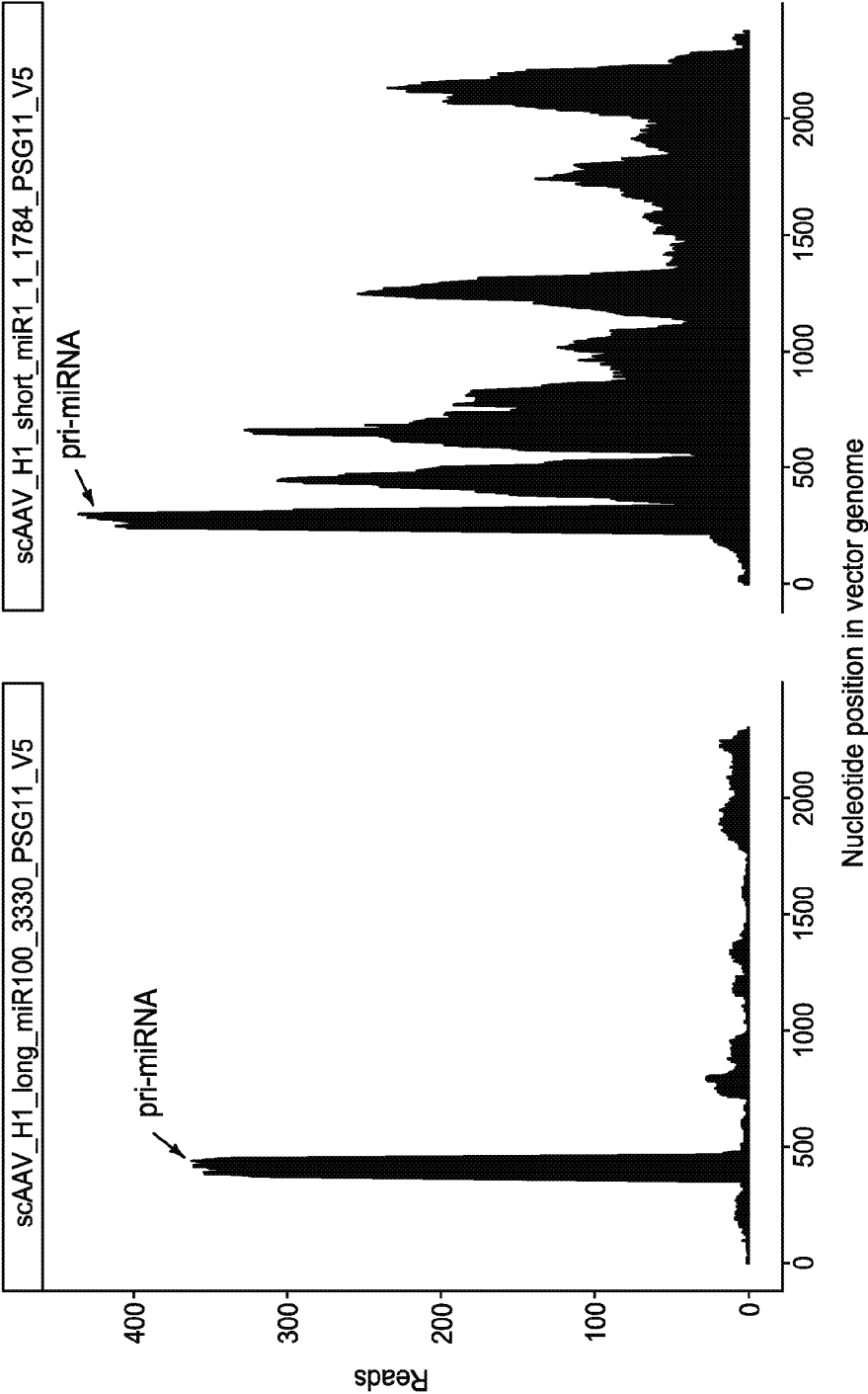


FIG. 6

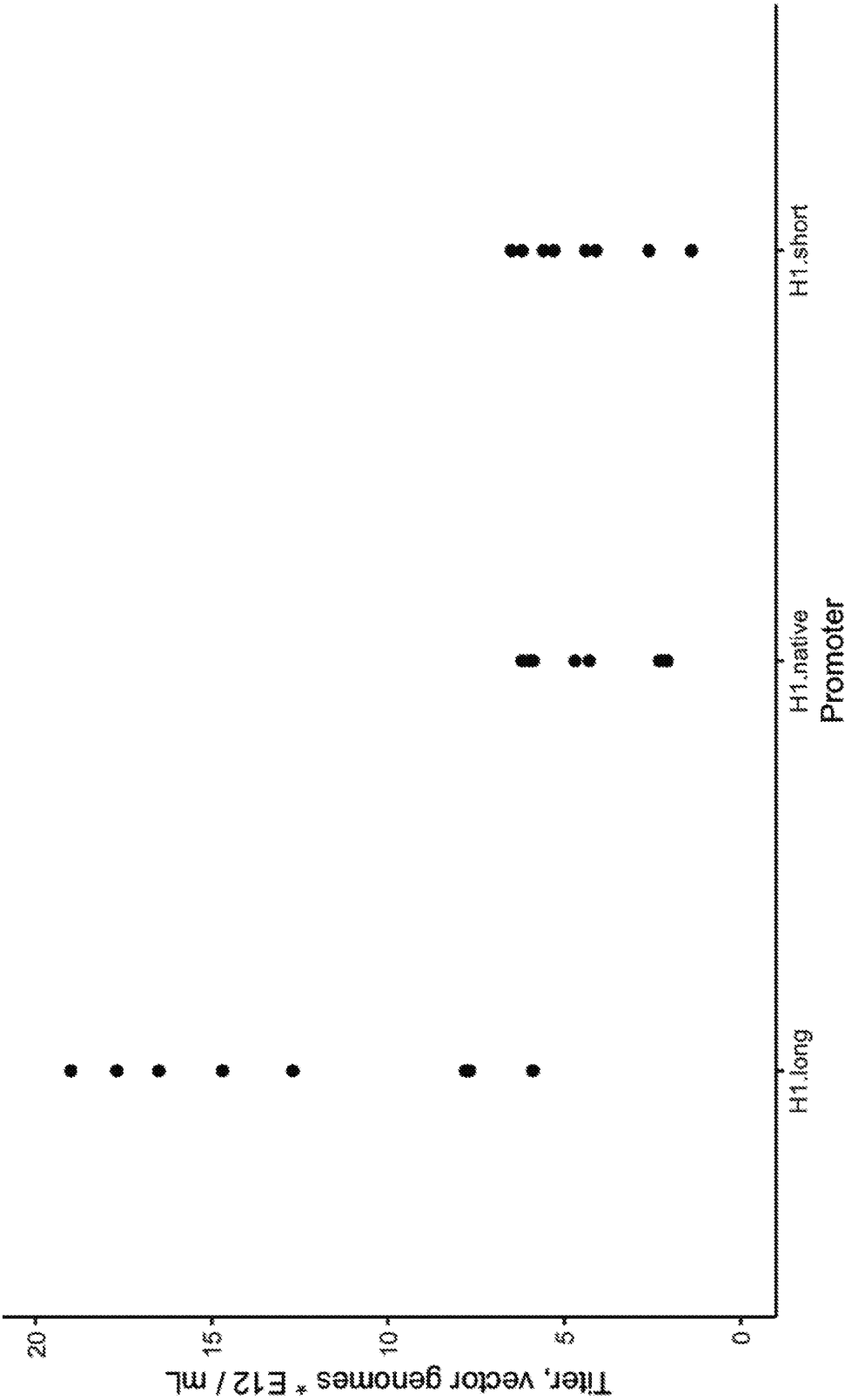


FIG. 7

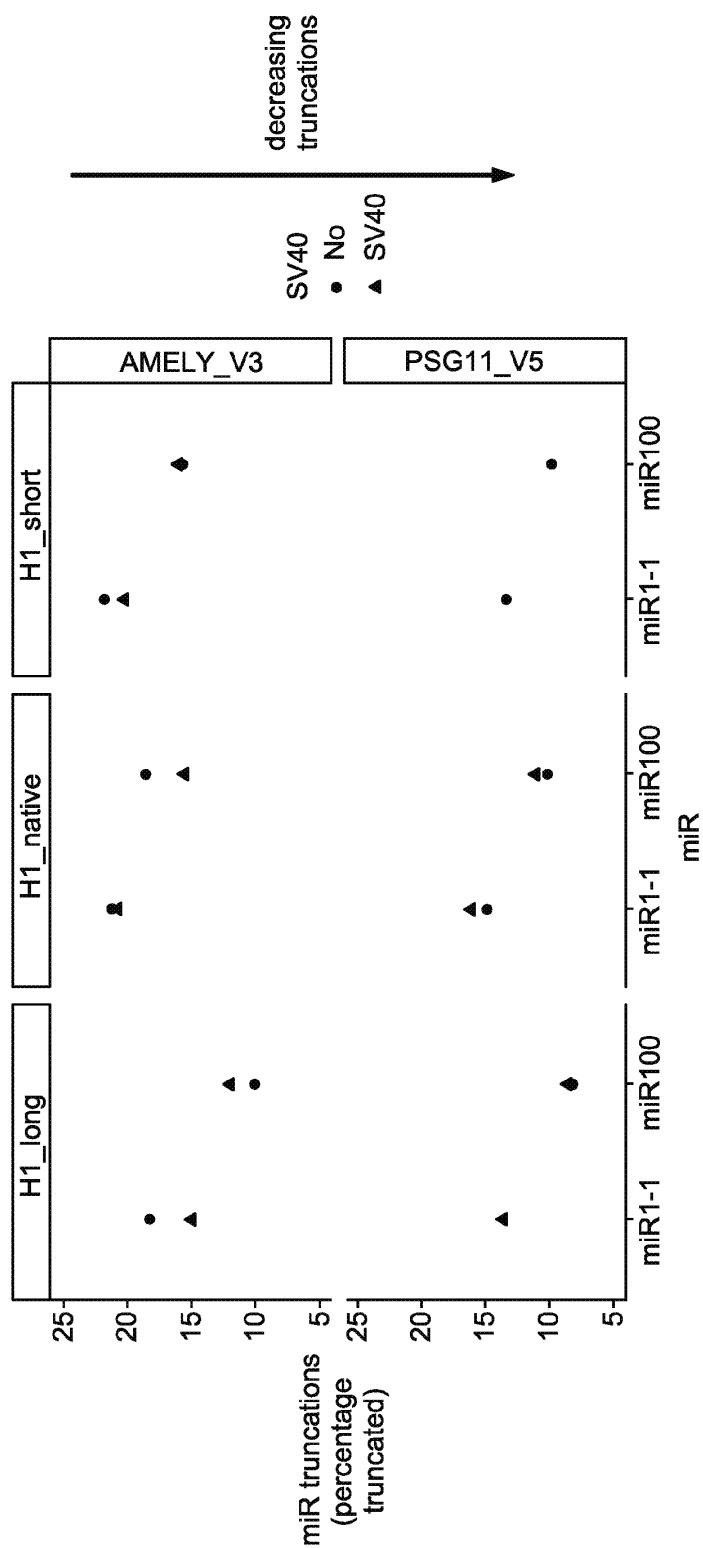


FIG. 8A

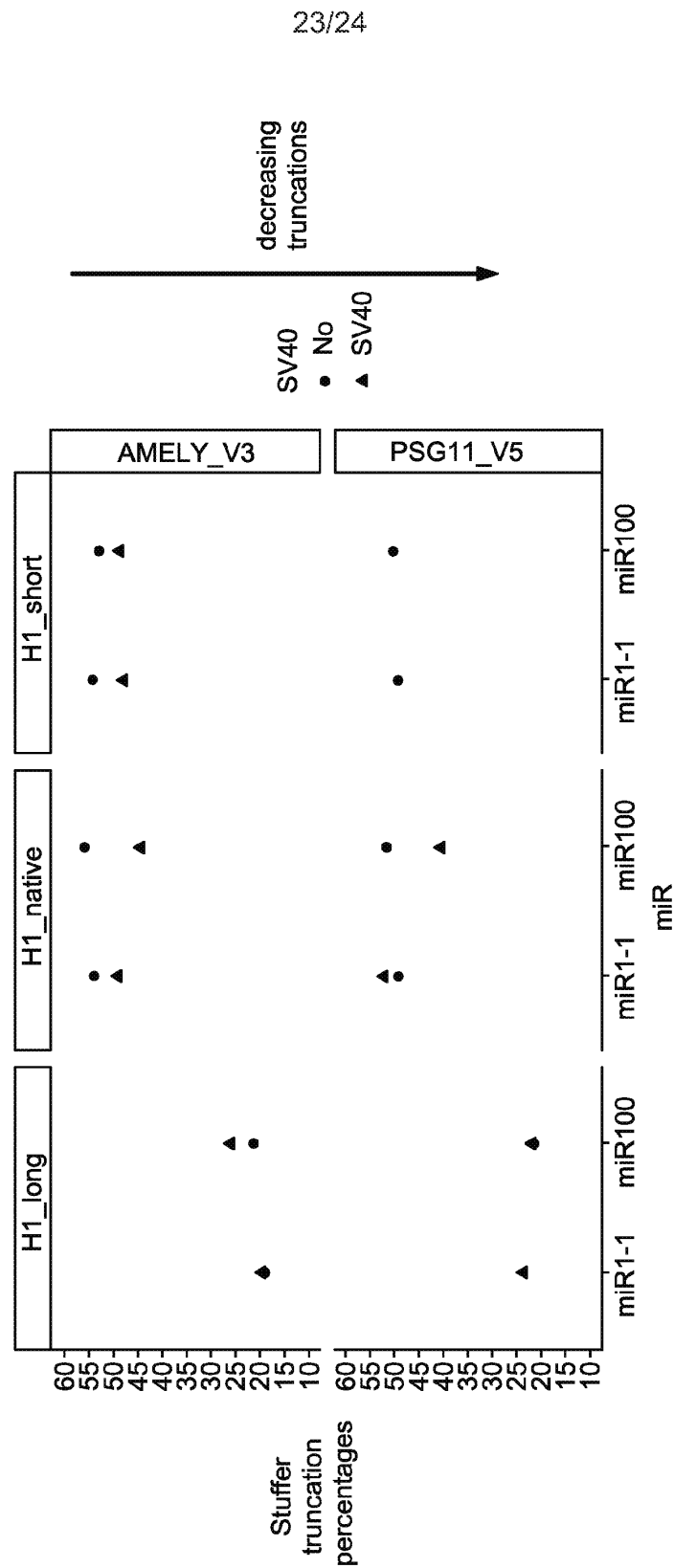


FIG. 8B

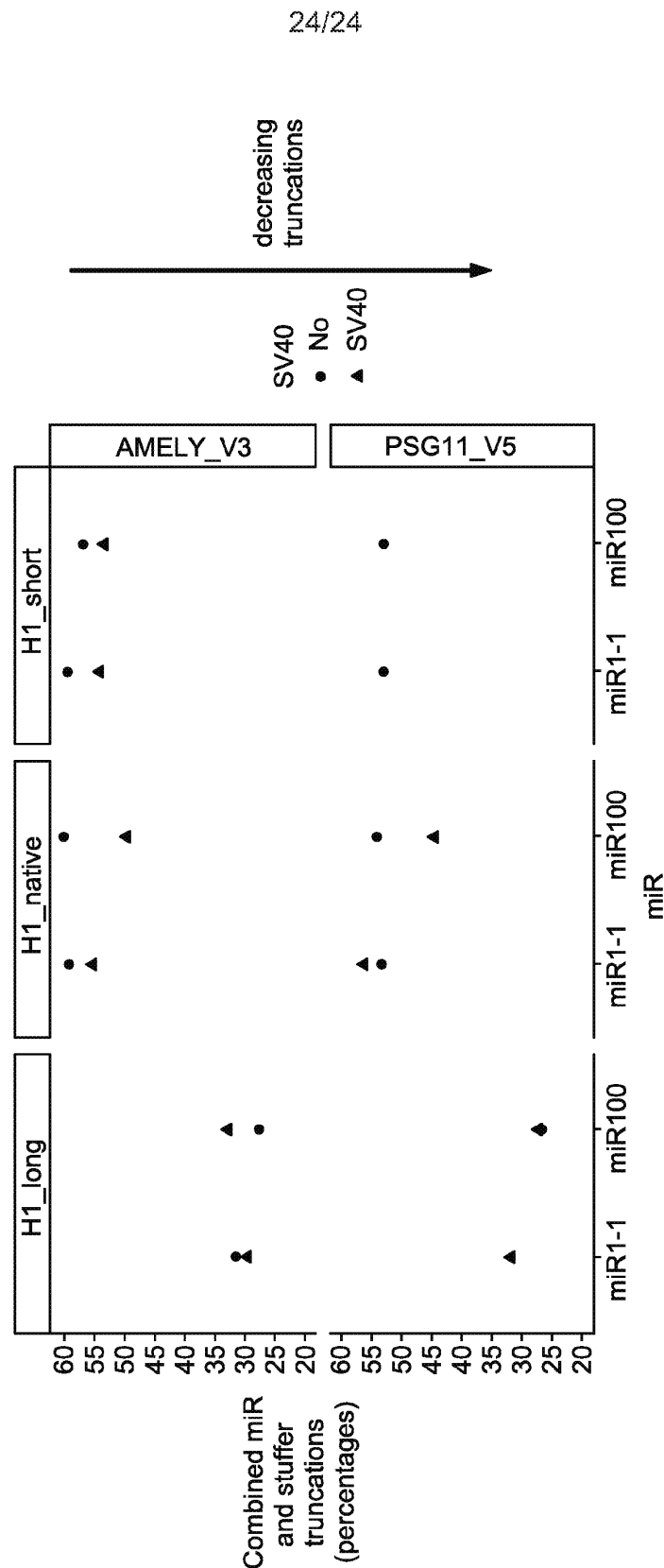


FIG. 8C