

INK2J00025.1_APOE_R136S_F03_AB








## APOE-201





|  |
| :---: |
|  |







 APOE APOE-201


 APOE APOE-201





 APDE

APOE-201










APOE-201












APOE-201



G
gRNA Protospacer











 $\xrightarrow{\square}$



GAGGTAGACACAGACACACATAGAA Reverse
GAGGTAGACACAGACACACATAGAA
Sanger Sequencing Primer

```
CAGTGGCACGATCTTGGCTCAC
```




```
GTCACCGTGCTAGAACCGAGTGA
```

$3^{\prime}$
${ }^{3}{ }^{3803}$

```
/note = }\quad\underset{\mathrm{ Protein coding }}{\mathrm{ genSG00000130203}
APOE-204
/note
APOE-201
/note \(\quad=\) primary transcript ENST00000252486
APOE-205
/note

APOE-203
/note
APOE-203
primary transcript ENST00000446996
\(=\) primary transcript ENST00000485628 Retained intron
\(=\) primary transcript ENST00000434152

Protein coding
- 4 segments \(=807 \mathrm{bp}\)
note \(\quad=\) coding sequence ENSP00000413653
 ELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEELRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERAQAWGERLRARMEEMGSRT 269 amino acids \(=30.6 \mathrm{kDa}\)
APOE-202 \(\quad 570\).. \(3164 \quad 2595\) bp \(\quad \rightarrow \quad\) prim_transcript
/note
\(=\) primary transcript ENST00000425718
APOE-201
- 3 segments \(=954 \mathrm{bp}\)
/note \(\quad=\) coding sequence ENSP00000252486
 VQAMLGQSTEELRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERAQA WGERLRARMEFMGSRTRDRLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLK


APOE-202 \(\quad 835\).. \(3164 \quad 2330 \mathrm{bp} \quad \square \quad \rightarrow \quad\) CDS
- 3 segments \(=658 \mathrm{bp}\)
note \(\quad=\) coding sequence ENSP00000410423
 VQAMLGQSTEELRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQ 219 amino acids \(=24.9 \mathrm{kDa}\)

APOE-204 \(\quad 835 \quad . \quad 3154 \quad 2320 \mathrm{bp} \quad \square \quad \rightarrow \quad\) CDS
* 3 segments \(=648 \mathrm{bp}\)
coding sequence ENSP00000413135

\[
216 \text { amino acids }=24.6 \mathrm{kD}
\]
\begin{tabular}{lllllllll} 
Donor Template WT -> SNV & 2890 &. .2989 & 100 bp & \(\square\) & \(\mapsto\) & misc_feature \\
Protospacer Sequence & 2952 &. .2971 & 20 bp & \(\square\) & \(\mapsto\) & misc_feature
\end{tabular}SNV
\begin{tabular}{ll} 
note \(\quad=\quad\) & \(W T=C\) \\
\(S N V=A\)
\end{tabular}
```

3585 .. 9378 5794 bp ם | prim_transcript

```
```

```
3585 .. 9378 5794 bp ם | prim_transcript
```

```
/note
\(=\) primary transcript ENST0000062389 TEC
\begin{tabular}{lll} 
Donor Template WT -> SNV & \(100-\mathrm{mer}\) & 2890 .. \(2989 \quad-\quad 88^{\circ} \mathrm{C} \quad 0 c t 13,2022\)
\end{tabular}
/sequence \(\quad=\) CGTGTGCGGCCGCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGAGCCTCGCCTCCCACCTGCGCAAG
gRNA Protospacer
/sequence \(\quad=\) GAGGCGCACCCGCAGCTCCT \(75 \%\) GC / 6064.0 Da

\section*{PCR Reverse}
\(=\) AAGATACACACAGACACAGATGGAG \(44 \%\) GC / 7726.1 Da
Sanger Sequencing Primer
\(=\) AAGATACACACAGACACAGATGGAG \(44 \%\) GC / 7726.1 Da
/sequence

20-mer 2952 .. \(2971 \quad 69^{\circ} \mathrm{C}\) Oct 13,2022

25-mer 3696 .. \(3720 \quad\) - \(58^{\circ} \mathrm{C}\) Oct 13,2022

25-mer
3696 .. 3720```

