

CZK2J00160_SOD1_D91A_F09_AB
1392 bp

TGACTCATCTAAACCCCTGCTCCCAAATGCTGGAATGCTTTTACTTCCTGGGCTTAAAGGAATTGACAAATGGGGACACTTAAAA
 ACTGAGTAGATTTGGGGACGAGGGTTTACGACCTTACGAAAATGAAGGACCCGAATTTCCTTAACTGTTTACCCCTGTGAATTTT $\square$ SOD1 $\gg$ SOD1-201 $\gg$
PCR Forward
tacaagtgccaaaggggaactaata

CGATTTGGTTTTGTAGCATTTATTGAATATAGAACTAATACAAGTGCCAAAGGGGAACTAATACAGGAAATGTCATGAACAGTAC
 GCTAAACCAAAACATCGTAAATAACTTATATCTTGATTATGTTCACGGTTTCCCCTTGATTATGTCCTTTACAGTACTTGTCATG

| SOD1 |
| ---: |
| SOD1-201 |

TGTCAACCACTAGCAAAATCAATCATCATTGTGAAACATAGGAAGCTTCTGTAGATAAAAAAAAAAATTGATACTGAAAACTAGT
 ACAGTTGGTGATCGTTTTAGTTAGTAGTAACACTTTGTATCCTTCGAAGACATCTATTTTTTTTTTTAACTATGACTTTTGATCA

| $\square$ SOD1 |
| :--- |
| SOD1-201 |

CGAGACTCCATTTATATGTGTATGTTTTCTGAAAGCCTTTCAGAAAAATATTAAATTTAAGGACAAGATTTTTATATCAGAGGCC
 GCTCTGAGGTAAATATACACATACAAAAGACTTTCGGAAAGTCTTTTTATAATTTAAATTCCTGTTCTAAAAATATAGTCTCCGG

| SOD1 |
| :--- |
| SOD1-201 |$>$

TTGGGACATAGCTTTGTTAGCTATGCCAGTAATTAACAGGCATAACTCAGTAACTGAGAGTTTACCCTTTGGTACTTCTGAAATC +ННН-H-HبH AACCCTGTATCGAAACAATCGATACGGTCATTAATTGTCCGTATTGAGTCATTGACTCTCAAATGGGAAACCATGAAGACTTTAG


CTTGTTTGCAAATTTGTGTCTACTCAGTCAAGTTTTAATTTAGCTCATGAACTACCTTGATGTTTAGTGGCATCAGCCCTAATCC + $+\boldsymbol{+}$
GAACAAACGTTTAAACACAGATGAGTCAGTTCAAAATTAAATCGAGTACTTGATGGAACTACAAATCACCGTAGTCGGGATTAGG

| SOD1 |
| :--- |
| SOD1-201 |



AAGATTCTGTGATCTCACTCTCAGGAGACCATTGCATCATTGGCCGCACACTGGTGGTAAGTTTTCATAAAAGGATATGCATAAA
 TTCTAAGACACTAGAGTGAGAGTCCTCTGGTAACGTAGTAACCGGCGTGTGACCACCATTCAAAAGTATTTTCCTATACGTATTT


ACTTCTTCTAACATACAGTCATGTATCTTTTCACTTTGATTGTTAGTCGCGGTTTCTAAAGATCCAGATAAACTGTACTTGCAGT
 TGAAGAAGATTGTATGTCAGTACATAGAAAAGTGAAACTAACAATCAGCGCCAAAGATTTCTAGGTCTATTTGACATGAACGTCA


TCAAATTAGGAAAAGCAATTTTATTGGACAATTACGGTGAAAATGAATTATTTTATCTAGGTCAGTTAAGAACACTGTTCTGCTA HץHHH AGTTTAATCCTTTTCGTTAAAATAACCTGTTAATGCCACTTTTACTTAATAAAATAGATCCAGTCAATTCTTGTGACAAGACGAT

| SOD1 |
| :--- |
| SOD1-201 |

AGATGCAGTAAAAAGCAGGTTACATTTGACCATATTAGATCTGAGTTTGGAAAACAGAAGTAGTCTTTAGTTTTAAAATGGCCAG
 TCTACGTCATTTTTCGTCCAATGTAAACTGGTATAATCTAGACTCAAACCTTTTGTCTTCATCAGAAATCAAAATTTTACCGGTC

| SOD1 |
| ---: |
| SOD1-201 |

ATTTTCTTGCCAGGATTGGGTTTCTCACTTGTTAAACAGAACATTTTGTTAAGTTTAAAACCTGGGATGGACTTAAGTATTCATG


TTCATTCATGTTCATTCAGGACTGCAGGTTATCATGACTTGTTTAACTTGTGGGAAGCTGTTGTCCCAAGTTATCCTGGGGAACT +मНН+

| SOD1 |
| :--- |
|  |
| SOD1-201 |

CAAAATACTGTTGCTTAAAGTATTAAGATTTT
GTTTTATGACAACGAATTTCATAATTCTAAAA
SOD1
$3^{\prime}$
1392
$5^{\prime}$

Feature
Location

Size
$\ddagger \quad$ Type
SOD 1
/note $\quad=\quad$ gene ENSG000000142168
Protein coding
SOD1-201 1 .. $1392 \quad 1392 \mathrm{bp} \quad \square \quad \longrightarrow$ prim_transcript
/note $=$ primary transcript ENST00000270142
SOD1-202 $1 \quad . .1392 \quad 1392 \mathrm{bp} \quad \square \quad \longrightarrow$ prim_transcript
/note $=$ primary transcript ENST00000389995
$\begin{array}{ll}\text { SOD 1-203 } & \\ \text { /note } & =\begin{array}{l}\text { primary transcript ENST00000470944 } \\ \text { protein_coding_CDS_not_defined }\end{array}\end{array}$
SOD 1-204 $1 \quad . . \quad 702 \quad 702 \mathrm{bp} \quad \square \quad \longrightarrow$ prim_transcript
/note $=$ primary transcript ENST00000476106 protein_coding_CDS_not_defined
89 .. $608 \quad 520 \mathrm{bp} \square$ gene
/note $=$ gene ENSG00000273271 IncRNA

1 .. $1392 \quad 1392$ bp $\square \quad \longrightarrow$ prim_transcript


|  | Primer | Length | 0 | Binding | Sites | $\rightleftharpoons$ | Tm | Date Added |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ | PCR Forward | 25-mer |  | 124 .. | 148 | $\rightarrow$ | $56^{\circ} \mathrm{C}$ | Nov 7, 2023 |
|  | $\begin{aligned} \text { /sequence }= & \text { tacaagtgccaaaggggaactaata } \\ & 40 \% \mathrm{GC} / 7732.1 \mathrm{Da} \end{aligned}$ |  |  |  |  |  |  |  |
| $\checkmark$ | Sanger Sequencing Primer | 20-mer |  | 434 .. | 453 | $\rightarrow$ | $56^{\circ} \mathrm{C}$ | Nov 7, 2023 |
|  | /sequence $=\begin{aligned} & \text { ccccatctttcttcccagag } \\ & 55 \% \mathrm{GC} / 55963.9 \mathrm{Da}\end{aligned}$ |  |  |  |  |  |  |  |
| $\checkmark$ | Donor Template WT -> SNV | 100-mer |  | 625 .. | 724 | - | $76^{\circ} \mathrm{C}$ | Nov 7, 2023 |
|  | $\begin{aligned} \text { /sequence }= & \text { GCCAATGATGCAATGGTCTCCTGAG } \\ & 49 \% \mathrm{GC} / 30,684.0 \mathrm{Da} \end{aligned}$ <br> gRNA Protospacer | TCACAGAA |  | ATAGACAC | CATCGG |  | CCATC | TTGGCAGCAGTCACATTGCCCAAGTCTCCA |
| $\checkmark$ |  | 20-mer |  | 643 .. | 662 | $\rightarrow$ | $57^{\circ} \mathrm{C}$ | Nov 7, 2023 |
|  | $\begin{aligned} \text { /sequence }= & \text { GACTGCTGACAAAGATGGTG } \\ & 50 \% \text { GC / 6206.1 Da } \end{aligned}$ |  |  |  |  |  |  |  |
| $\checkmark$ | PCR Reverse | 25-mer |  | 1213 .. 1 | 1237 | - | $58^{\circ} \mathrm{C}$ | Nov 7, 2023 |
|  | $\begin{aligned} \text { /sequence } \quad= & \text { aggtaaaagagagcctgtctacttg } \\ & 44 \% \mathrm{GC} / 7730.1 \mathrm{Da} \end{aligned}$ |  |  |  |  |  |  |  |

