

**CZK2J00159R\_SOD1\_A5V\_B07\_AA**  
1466 bp

5 '  
3 '

ATACTAAGGACTAAGAAAATTGCAGGGGAAGAAAAGGTAAGTCCCAGGGATTGAGGTGTAGCGACTTTCTATACCCTCAGAAAAC  
TATGATTCCTGATTCTTTTAACGTCCCCTTCTTTTCCATTTCAGGGCCCTAACTCCACATCGCTGAAAGATATGGGAGTCTTTTGA

85

partial Promoter

AAAAACAAGACAAAAAATGAAAACACAAAAGCATCCATCTTGGGGCGTCCCAATTGCTGAGTAACAAATGAGACGCTGTGGC  
TTTTTGTCTGTTTTTTTACTTTTGTATGTTTTTCGTAGGTAGAACCCTCGCAGGGTTAACGACTCATTGTTTACTCTGCGACACCG

170

partial Promoter

CAAACTCAGTCATAACTAATGACATTTCTAGACAAAGTGACTTCAGATTTTCAAAGCGTACCCTGTTTACATCATTGTTGCCAATT  
GTTTGAGTCAGTATTGATTACTGTAAAGATCTGTTTCACTGAAGTCTAAAAGTTTCGCATGGGACAAATGTAGTAAAACGGTTAA

255

partial Promoter

PCR Forward

agaaggttgTTTTCTCCACATTTCGGGGTTCTGGACGTTTCCCGGCTG

TCGCGTACTGCAACCGGCGGGCCACGCCCCCGTGAAAAGAAGTTGTTTTCTCCACATTTCGGGGTTCTGGACGTTTCCCGGCTG  
AGCGCATGACGTTGGCCGCCCAGTGCAGGGGCACTTTTCTTCCAACAAAAGAGGTGTAAAGCCCCAAGACCTGCAAAGGGCCGAC

340

partial Promoter

CGGGGCGGGGGGAGTCTCCGGCGCACGCGGGCCCTTGGCCCCGCCCCCAGTCATTCCCGGGCCACTCGCGACCCGAGGCTGCCGCA  
GCCCCGCCCCCTCAGAGGCCGCGTGCGCCGGGGAACCAGGGGCGGGGTGAGTAAAGGGCCGGTGAGCGCTGGGCTCCGACGGCGT

425

partial Promoter

Sanger Sequencing Primer

gtgcgaggcgattggTTTg

GGGGGCGGGCTGAGCGCGTGCAGGGCGATTGGTTTGGGGCCAGAGTGGGCGAGGCGCGGAGGTCTGGCCTATAAAGTAGTCGCGG  
CCCCGCCCCGACTCGCGCACGCTCCGCTAACCAAACCCCGGTCTCACCCGCTCCGCGCCTCCAGACCGGATATTTTCATCAGCGCC

510

partial Promoter

SOD1

AGACGGGGTGCTGGTTTGCCTCGTAGTCTCCTGCAGCGTCTGGGGTTTCCGTTGCAGTCTCAGGAAACCAGGACCTCGGCGTGGCC  
TCTGCCCCACGACCAAACGCAGCATCAGAGGACGTGCAGACCCCAAAGGCAACGTGAGGAGCCTTGGTCTGGAGCCGCACCGG

595

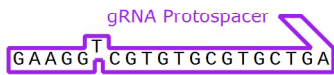
SOD1

SOD1-201

Donor Template SNV -> REV

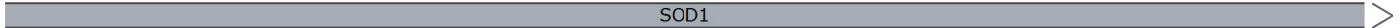
G

Donor Template SNV -> REV



TAGCGAGTTATGGCGACGAAGGCGTGTGCGTGCTGAAGGGC6ACGGCCAGTGCAGGGCATCATCAATTTTCGAGCAGAAGGCCAA  
ATCGCTCAATACCGCTGCTTCCGGCACACGCACGACTTCCCGCTGCCGGGTCACGTCCCAGTAGTAGTTAAAGCTCGTCTTCCGTT

680



1 M A T K 5 A V C V L 10 G D G P 15 V Q G I I 20 N F E Q K A  
ENSE00001507447  
SOD1-201



ATCGCTCAATACCGCTGCTTCCGGCACACGCACGACTTCCCGCTGCCGGGTCACGTCCCAGTAGTAGTTAAAGCTCGTCTTCCggtt

Donor Template SNV -> REV

GGGCTGGGACGGAGGCTTGTGGCGAGGCCGCTCCACCCGCTCGTCCCCCGCGCACCTTTGCTAGGAGCGGGTCGCCCCCCAG  
CCCGACCCTGCCTCCGAACAAACGCTCCGGCGAGGGTGGGCGAGCAGGGGGGCGCGTGGAAACGATCCTCGCCCAGCGGGCGGTC

765



R A G T E A C L R G R S H P L V P P R T F A R S G S P A R  
(in frame with SOD1-201)



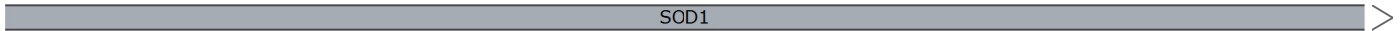
Donor Template SNV -> REV

ccgaccctgcctc

Donor Template SNV -> REV

GCCTCGGGGCCGCCCTGGTCCAGCGCCCGGTCGCCGGCCGTCGCCCGCGGTCGGTGCCTTCGCCCCAGCGGTGCGGTGCCAAG  
CGGAGCCCCGGCGGGACCAGGTGCGGGGCCAGGGCCGGGCAC6GGCGGGCCAGCCACGGAAGCGGGGGTTCGCCACGCCACGGGTTCC

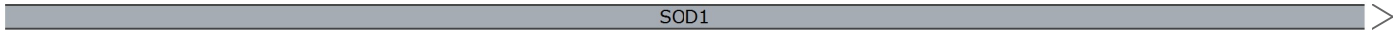
850



P R G R P G P A P G P G P C R P V G A F A P S G A V P K  
(in frame with SOD1-201)

TGCTGAGTCACCGGGCGGGCCCGGGCGCGGGGCGTGGGACCGAGGCCGCCGCGGGGCTGGGCCTGCGCGTGGCGGGAGCGCGGGG  
ACGACTCAGTGGCCCGCCGGGCGCGCCCGCACCCCTGGCTCCGGCGGGCGCCCGACCCGGACGCGCACCCGCCCTCGCGCCCC

935



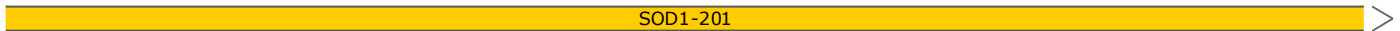
AGGGATTGCCGCGGGCCGGGAGGGGCGGGGCGGGGCGTGTGCCCTCTGTGGTCTTGGGCCGCCGCCGCGGGTCTGTCTGTGGT  
TCCCTAACGGCGCCCGGGCCCTCCCGGCCCGCCCGCACGACGGGAGACACCAGGAACCCGGCGGGCGGGCGCCAGACAGCACCA

1020



GCCTGGAGCGGCTGTGCTCGTCCCTTGTGGCCGTGTTCTCGTTCCTGAGGGTCCCGCGGACACCGAGTGGCGCAGTGCCAGGC  
CGGACCTCGCCGACACGAGCAGGGAACGAACCGGCACAAGAGCAAGGACTCCAGGGCGCCTGTGGCTCACCGCGTCACGGTCCG

1105



CCAGCCCGGGGATGGCGACTGCGCCTGGGCCCCGCCTGGTGTCTTCGCATCCCTCTCCGCTTTCCGGCTTCAGCGCTCTAGGTCAG  
GGTCGGGCCCTACCGCTGACGCGGACCCGGGCGGACCACAGAAGCGTAGGGAGAGGGCGAAAGGCCGAAGTCGCGAGATCCAGTC

1190

SOD1 >

SOD1-201 >

GGAGTCTTCGCTTTTGTACAGCTCTAAGGCTAGGAATGGTTTTTATATTTTTAAAAGGCTTTGGAAAACAAAAATACGCAACAGA  
CCTCAGAAGCGAAAACATGTCGAGATTCCGATCCTTACCAAAAATATAAAAATTTTCCGAAACCTTTTGTTTTTATGCGTTGTCT

1275

SOD1 >

SOD1-201 >

GACCGTTTGTGTGACACTTTCAGGGAAGTTTGTGGCCTCTGTTCTAGGTCATGATTGGGCTGCAAGGGCAGAGAAGGTAGCCT  
CTGGCAAACACACTGTGAAACGTCCCTTCAAACGACCGGAGACAAGATCCAGTACTAACC CGACGTTCCCGTCTCTTCCATCGGA

1360

SOD1 >

SOD1-201 >

gagacaagatccagtactaaccga  
PCR Reverse

TGAACAGAGGTCCTTTTCTCCTCCTAAGCTCCGGGAGCCAGAGGTTTAACTGACCCTTTTGGGGATTTTTGAGGGCAGTGATCT  
ACTTGTCTCCAGGAAAAGGAGGAGGATTGAGGCCCTCGGTCTCCAATTGACTGGGAAAACCCCTAAAAACTCCCGTCACTAGA

1445

SOD1 >

SOD1-201 >

TAAC TTTGGGTGCACAGTTAG 3'  
1466  
ATTGAAACCCACGTGTCAATC 5'

SOD1 >

SOD1-201 >

Feature	Location	Size	±	Type
✓ <b>partial Promoter</b>	1 .. 500	500 bp		misc_feature
✓ <b>SOD1</b>	501 .. 1466	966 bp		gene
/note = gene <a href="#">ENSG00000142168</a> Protein coding				
<b>SOD1-202</b>	501 .. 1466	966 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000389995</a>				
✓ <b>SOD1-201</b>	528 .. 1466	939 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000270142</a>				
<b>SOD1-204</b>	528 .. 1466	939 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000476106</a> protein_coding_CDS_not_defined				
<b>SOD1-203</b>	544 .. 1466	923 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000470944</a> protein_coding_CDS_not_defined				
✓ <b>Donor Template SNV -&gt; REV</b>	595 .. 694	100 bp		misc_feature
✓ <b>SOD1-201</b>	605 .. 676	72 bp		CDS
/note = coding sequence <a href="#">ENSP00000270142</a> /translation = MATKAVCVLKGDPVQGIINFEQK 24 amino acids = 2.5 kDa				
<b>SOD1-202</b>	605 .. 619	15 bp		CDS
/note = coding sequence <a href="#">ENSP00000374645</a> /translation = MATKA 5 amino acids = 520.7 Da				
✓ <b>gRNA Protospacer</b>	613 .. 632	20 bp		misc_feature
✓ <b>SNV</b>	618 .. 618	1 bp		misc_feature
/note = SNV = T REV = C				
✓ <b>PAM</b>	633 .. 635	3 bp		misc_feature

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b>  /sequence = agaaggttgTTTTCTCCACATTTCG 40% GC / 7638.0 Da	25-mer	293 .. 317 →	58°C	Oct 6, 2023
✓ <b>Sanger Sequencing Primer</b>  /sequence = gtgCGAGGCgattggTTTg 58% GC / 5930.9 Da	19-mer	443 .. 461 →	59°C	Oct 13, 2023
✓ <b>Donor Template SNV -&gt; REV</b>  /sequence = ctccgtcccagcccttgCCTTCTGCTCGAAATTGATGATGCCCTGCACTGGGCCGTGCCCTTCAGCACGCACACGGCCTTCGTCGCCATAACTCGCTAG 62% GC / 30,442.6 Da	100-mer	595 .. 694 ←	83°C	Oct 13, 2023
✓ <b>gRNA Protospacer</b>  /sequence = GAAGGTCGTGTGCGTGCTGA 60% GC / 6229.1 Da	20-mer	613 .. 632 →	59°C	Oct 13, 2023
✓ <b>PCR Reverse</b>  /sequence = agcccaatcatgacctagaacagag 48% GC / 7653.1 Da	25-mer	1314 .. 1338 ←	60°C	Oct 13, 2023