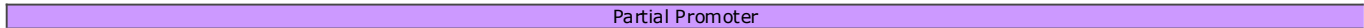


**CZK2J00159\_SOD1\_A5V\_C03\_AB**  
 1274 bp

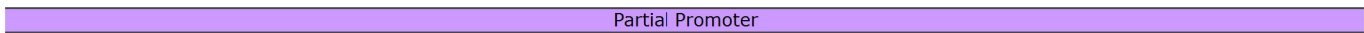
5' GTGACTTCAGATTTTCAAAGCGTACCCTGTTTACATCATTTTGCCAATTTTCGCGTACTGCAACCGGGCGGGCCACGCCCCCGTGAA  
 3' CACTGAAGTCTAAAAGTTTCGCATGGGACAAATGTAGTAAAACGGTTAAAGCGCATGACGTTGGCCGCCCGGTGCGGGGGCACTT



PCR Forward

agaagggttgTTTTCTCCACATTTcg

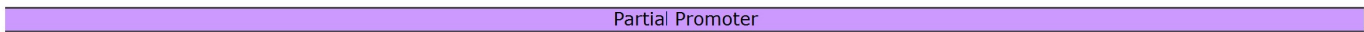
AAGAAGGTTGTTTTCTCCACATTTCCGGGTTCTGGACGTTTCCCGGCTGCGGGGGCGGGGGAGTCTCCGGCGCACGGGCCCTT  
 TTCTTCCAACAAAAGAGGTGTAAGGCCCAAGACCTGCAAAGGGCCGACGCCCGCCCCCTCAGAGGCCGCGTGCGCCGGGGAA



Sanger Sequencing Primer

gtgcgaggcgattggttg

GGCCCCGCCCCAGTCATTCCTCCGGCCACTCGCGACCCGAGGCTGCCGACGGGGGGCGGGCTGAGCGCGTGCGAGGCCGATTGGTTTG  
 CCGGGGGCGGGGTACAGTAAGGGCCGGTGAGCGCTGGGCTCCGACGGCGTCCCCGCCCGACTCGCGCACGCTCCGCTAACCAAC



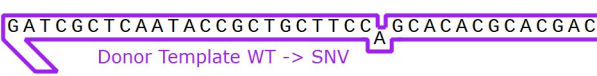
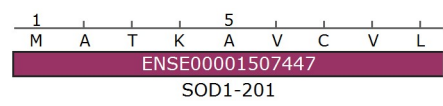
GGGCCAGAGTGGGCGAGGGCGGGAGGTCTGGCCTATAAAGTAGTCGCGGAGACGGGGTGTGGTTTGCCTCGTAGTCTCTGCAG  
 CCCGGTCTCACCCGCTCCGCGCCTCCAGACCGGATATTTATCAGCGCCTCTGCCCCACGACCAACGCAGCATCAGAGGACGTC



gRNA Protospacer

GAAGGCCGTGTGCGTGCTG

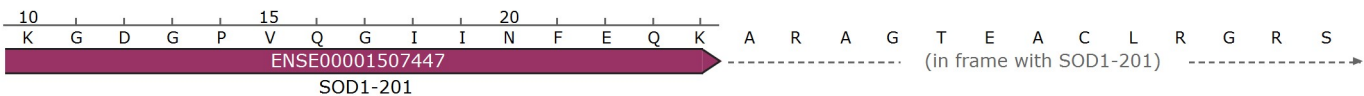
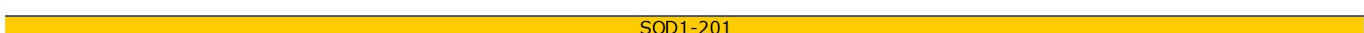
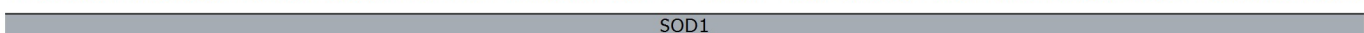
CGTCTGGGGTTTCCGTTGCAGTCTCCTCGGAACCAGGACCTCGGCGTGGCCTAGCGAGTTATGGCGACGAAGGCCGTGTGCGTGCTG  
 GCAGACCCCAAGGCAACGTCAGGAGCCTTGGTCTGGAGCCGCACCGGATCGCTCAATACCGCTGCTTCCGGCACACGCACGAC



gRNA Protospacer

A

AAGGGCGACGGCCAGTGCAGGGCATCATCAATTTTCGAGCAGAAAGGCAAGGGCTGGGACGGAGGCTTGTTCGAGGGCCGCTCCC  
 TTCCCCTGCGGGTACAGTCCCGTAGTAAAGCTCGTCTTCCGTTCCCGACCCTGCCTCCGAACAAACGCTCCGGCGAGGG



TTCCCCTGCGGGTACAGTCCCGTAGTAAAGCTCGTCTTCCggttcccgaccctgcctc

Donor Template WT -> SNV

ACCCGCTCGTCCCCCGCGCACCTTTGCTAGGAGCGGGTGC GCCCGCCAGGCCTCGGGGCGCCCTGGTCCAGCGCCCGGTCCCGG  
TGGGCGAGCAGGGGGGCGCGTGGAAACGATCCTCGCCAGCGGGCGGTCCGGAGCCCCGGCGGGACCAGGTGCGGGGCCAGGGCC

595

SOD1

SOD1-201

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

CCCGTGCCGCCGGTGGTGCCTTCGCCCCAGCGGTGCGGTGCCAAGTGCTGAGTCACCGGGCGGGCCCGGGCGGGGGCGTG  
GGGCACGGCGGGCCAGCCACGGAAGCGGGGGTGCACCAGCCACGGGTTACGACTCAGTGGCCCCGCCCGGGCCCGCGCCCCGCAC

680

SOD1

SOD1-201

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

GGACCGAGGCCCGCGGGGCTGGGCCTGCGCGTGGCGGGAGCGGGGAGGGATTGCCGCGGGCCGGGGAGGGGCGGGGGCGGG  
CCTGGCTCCGGCGGGCGCCCCGACCCGGACGCGCACCCGCCCTCGCGCCCCTCCCTAACGGCGCCCCGGCCCCCTCCCCGCCCCCGCCC

765

SOD1

SOD1-201

CGTGCTGCCCTCTGTGGTCTTGGGCCGCCGCGGGTCTGTGCTGGTGCCTGGAGCGGGCTGTGCTCGTCCCTTGCTTGGCCGT  
GCACGACGGGAGACACCAGGAACCCGGCGGGCGGGCGCCAGACAGCACCCACGGACCTCGCCGACACGAGCAGGGAACGAACCGGCA

850

SOD1

SOD1-201

GTTCTCGTTCCTGAGGGTCCCGCGGACACCGAGTGGCGCAGTGCCAGGCCAGCCCCGGGGATGGCGACTGCGCCTGGGCCCGCCT  
CAAGAGCAAGGACTCCCAGGGCGCCTGTGGCTCACCGCGTCACGGTCCGGGTCCGGGCCCTACCGCTGACGCGGACCCGGGGCGGA

935

SOD1

SOD1-201

GGTGTCTTCGCATCCCTCTCCGCTTTCGGGCTTCAGCGCTCTAGGTGAGGGAGTCTTCGCTTTTGTACAGCTCTAAGGCTAGGAA  
CCACAGAAGCGTAGGGAGAGGCGAAAGGCCGAAGTCCGCGAGATCCAGTCCCTCAGAAGCGAAAACATGTCGAGATTCCGATCCTT

1020

SOD1

SOD1-201

TGGTTTTTATATTTTTAAAGGCTTTGGAAAACAAAAATACGCAACAGAGACCGTTTGTGTGACACTTTCAGGGAAAGTTTGCTG  
ACCAAAAATATAAAAATTTCCGAAACCTTTTGTTTTTATGCGTTGTCTCTGGCAAACACACTGTGAAACGTCCCTTCAAACGAC

1105

SOD1

SOD1-201

GCCTCTGTTCTAGGTCATGATTGGGCTGCAAGGGCAGAGAAGGTAGCCTTGAACAGAGGTCTTTTCTCCTCCTAAGCTCCGGG  
CGGAGACAAGATCCAGTACTAACCAGACGTTCCCGTCTCTTCCATCGGAACTTGTCTCCAGGAAAAGGAGGAGGATTTCGAGGCC

1190

SOD1

SOD1-201

gagacaagatccagtactaaccgga  
PCR Reverse

AGCCAGAGGTTTAACTGACCCTTTTGGGGATTTTTGAGGGCAGTGATCTTAACTTTGGGTGCACAGTTAGCTTATTTGAAGATC  
TCGGTCTCCAAATTGACTGGGAAAACCCCTAAAACTCCCGTCACTAGAATTGAAACCCACGTGTCAATCGAATAAACTTCTAG

3'

1274

5'

SOD1

SOD1-201

Feature	Location	Size	±	Type
✓ <b>Partial Promoter</b>	1 .. 294	294 bp		misc_feature
✓ <b>SOD1</b>	295 .. 1274	980 bp		gene
/note = gene <a href="#">ENSG00000142168</a> Protein coding				
<b>SOD1-202</b>	295 .. 1274	980 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000389995</a>				
✓ <b>SOD1-201</b>	322 .. 1274	953 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000270142</a>				
<b>SOD1-204</b>	322 .. 1274	953 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000476106</a> protein_coding_CDS_not_defined				
<b>SOD1-203</b>	338 .. 1274	937 bp		prim_transcript
/note = primary transcript <a href="#">ENST00000470944</a> protein_coding_CDS_not_defined				
✓ <b>Donor Template WT -&gt; SNV</b>	389 .. 488	100 bp		misc_feature
✓ <b>SOD1-201</b>	399 .. 470	72 bp		CDS
/note = coding sequence <a href="#">ENSP00000270142</a>				
/translation = MATKAVCVLKGDGPVQGIINFEQK 24 amino acids = 2.5 kDa				
<b>SOD1-202</b>	399 .. 413	15 bp		CDS
/note = coding sequence <a href="#">ENSP00000374645</a>				
/translation = MATKA 5 amino acids = 520.7 Da				
✓ <b>gRNA Protospacer</b>	407 .. 426	20 bp		misc_feature
✓ <b>SNV</b>	412 .. 412	1 bp		misc_feature
/note = WT = C SNV = T				
✓ <b>PAM</b>	427 .. 429	3 bp		misc_feature

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b>  /sequence = agaaggttgTTTTCTCCACATTTCG 40% GC / 7638.0 Da	25-mer	87 .. 111 →	58°C	Oct 6, 2023
✓ <b>Sanger Sequencing Primer</b>  /sequence = gtgCGAGGCgattggTTTg 58% GC / 5930.9 Da	19-mer	237 .. 255 →	59°C	Oct 13, 2023
✓ <b>Donor Template WT -&gt; SNV</b>  /sequence = ctccgtcccagcccttgCCTTCTGCTCGAAATTGATGATGCCCTGCACTGGGCCGTGCCCTTCAGCACGCACACGACCTTCGTCGCCATAACTCGCTAG 61% GC / 30,426.6 Da	100-mer	389 .. 488 ←	82°C	Oct 5, 2023
✓ <b>gRNA Protospacer</b>  /sequence = GAAGGCCGTGTGCGTGCTGA 65% GC / 6214.1 Da	20-mer	407 .. 426 →	64°C	Oct 5, 2023
✓ <b>PCR Reverse</b>  /sequence = agcccaatcatgacctagaacagag 48% GC / 7653.1 Da	25-mer	1108 .. 1132 ←	60°C	Oct 13, 2023