



Donor Template SNV -> REV

CGT

AGTGGTGGGGGGCCTTGGCGGCTACATGCTGGGAAGTGCCATGAGCAGGCCCATCATACATTTTCGGCAGTGACTATGAGGACCGT  
 TCACCACCCCCCGGAACCGCCGATGTACGACCCTTACGGTACTCGTCCGGGTAGTATGTAAGCCGTCACCTGATACTCCTGGCA

680

PRNP

PRNP-201

V V G G L G G Y M L G S A M S R P I I H F G S D Y E D R

PRNP-201

Donor Template SNV -> REV

Donor Template SNV -> REV

TACTATCGTGAAAACATGCACCGTTACCCCAACCAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGC  
 TACTATCGTGAAAACATGCACCGTTACCCCAACCAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGC  
 ATGATAGCACTTTTGTACGTGGCAATGGGGTTGTTTCACATGATGTCCGGGTACCTACTCATGTCGTTGGTCTTGTGAAACACG

765

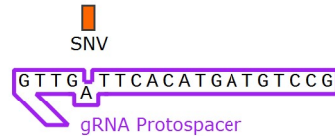
PRNP

PRNP-201

Y Y R E N M H R Y P N Q V Y Y R P M D E Y S N Q N N F V

PRNP-201

Donor Template SNV -> REV



Donor Template SNV -> REV

ACGACTGCGTCA

ACGACTGCGTCAATATCACAATCAAGCAGCACACGGTCACCACAACCACCAAGGGGGAGAACTTCACCGAGACCGACGTTAAGAT  
 TGCTGACGCAGTTATAGTGTAGTTCTGTCGTGTGCCAGTGGTGTGGTGGTTCCCTCTTGAAGTGGCTCTGGCTGCAATTCTA

850

PRNP

PRNP-201

H D C V N I T I K Q H T V T T T K G E N F T E T D V K M

PRNP-201

Donor Template SNV -> REV

CAATTCTA

Sanger Sequencing Primer

GATGGAGCGCGTGGTTGAGCAGATGTGTATCACCCAGTACGAAGGGAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTC  
 CTACCTCGCGCACCAACTCGTCTACACATAGTGGGTCATGCTCTCCCTTAGAGTCCGGATAATGGTCTCTCCTAGCTCGTACCAG

935

PRNP

PRNP-201

M E R V V E Q M C I T Q Y E R E S Q A Y Y Q R G S S M V

PRNP-201

CTACCTCGCGCA

Sanger Sequencing Primer

CTCTTCTCCTCTCCACCTGTGATCCTCCTGATCTCTTTCTCATCTTCCTGATAGTGGGATGAGGAAGGTCTTCCTGTTTTACC  
 1020  
 GAGAAAGAGGAGAGGTGGACACTAGGAGGACTAGAGAAAAGGAGTAGAAGGACTATCACCTACTCCTTCCAGAAGGACAAAAGTGG  
 PRNP  
 PRNP-201

235 240 245 250  
 L F S S P P V I L L I S F L I F L I V G \*  
 PRNP-201

ATCTTTCTAATCTTTTTCCAGCTTGAGGGAGGCGGTATCCACCTGCAGCCCTTTTAGTGGTGGTGTCTCACTCTTTCTTCTCT  
 1105  
 TAGAAAGATTAGAAAAAGGTGAACTCCCTCGCCATAGGTGGACGTCGGGAAAATCACCACCACAGAGTGAGAAAGAAGAGAGA  
 PRNP  
 PRNP-201

TTGTCCCGGATAGGCTAATCAATACCCTTGGCACTGATGGGCACTGGAAAACATAGAGTAGACCTGAGATGCTGGTCAAGCCCC  
 1190  
 AACAGGGCCTATCCGATTAGTTATGGGAACCGTGACTACCCGTGACCTTTTGTATCTCATCTGGACTCTACGACCAGTTCGGGGG  
 PRNP  
 PRNP-201

PCR Reverse  
 CCCC

PCR Reverse  
 TTTGATTGAGTTCATCATGAG  
 TTTGATTGAGTTCATCATGAGCCGTTGCTAATGCCAGGCCAGTAAAAGT 3'  
 1239  
 AAACCTAACTCAAGTAGTACTCGGCAACGATTACGGTCCGGTCATTTTCA 5'  
 PRNP  
 PRNP-201

Feature	Location	Size	Start	End	Type
✓ <b>PRNP</b>	1 .. 1239	1239 bp	■	➔	gene
/note	= gene <a href="#">ENSG00000171867</a> Protein coding				
✓ <b>PRNP-201</b>	1 .. 1239	1239 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000379440</a>				
<b>PRNP-202</b>	1 .. 1239	1239 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000424424</a>				
<b>PRNP-203</b>	1 .. 1239	1239 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000430350</a>				
<b>PRNP-204</b>	1 .. 1239	1239 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000457586</a>				
✓ <b>PRNP-201</b>	237 .. 998	762 bp	■	➔	CDS
/note	= coding sequence <a href="#">ENSP00000368752</a>				
/translation	= MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMA GAAAAGAVVGGGLGGYMLGSAMSRPIIHFGSDYEDRYRENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAYY QRGSSMVLFSPPVILLISFLIFLIVG* 253 amino acids = 27.7 kDa				
<b>PRNP-202</b>	237 .. 998	762 bp	■	➔	CDS
/note	= coding sequence <a href="#">ENSP00000411599</a>				
/translation	= MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMA GAAAAGAVVGGGLGGYMLGSAMSRPIIHFGSDYEDRYRENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAYY QRGSSMVLFSPPVILLISFLIFLIVG* 253 amino acids = 27.7 kDa				
<b>PRNP-203</b>	237 .. 998	762 bp	■	➔	CDS
/note	= coding sequence <a href="#">ENSP00000399376</a>				
/translation	= MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMA GAAAAGAVVGGGLGGYMLGSAMSRPIIHFGSDYEDRYRENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAYY QRGSSMVLFSPPVILLISFLIFLIVG* 253 amino acids = 27.7 kDa				
<b>PRNP-204</b>	237 .. 998	762 bp	■	➔	CDS
/note	= coding sequence <a href="#">ENSP00000415284</a>				
/translation	= MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMA GAAAAGAVVGGGLGGYMLGSAMSRPIIHFGSDYEDRYRENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAYY QRGSSMVLFSPPVILLISFLIFLIVG* 253 amino acids = 27.7 kDa				
✓ <b>Donor Template SNV -&gt; REV</b>	678 .. 777	100 bp	■		misc_feature
✓ <b>PAM</b>	707 .. 709	3 bp	■		misc_feature
✓ <b>gRNA Protospacer</b>	710 .. 729	20 bp	■		misc_feature
✓ <b>SNV</b>	714 .. 714	1 bp	■		misc_feature
/note	= SNV = T REV = C				

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b> /sequence = TAAATATGGGACTCTGACGTTCTCC 44% GC / 7632.0 Da	25-mer	188 .. 212	58°C	Jun 14, 2023
✓ <b>Donor Template SNV -&gt; REV</b> /sequence = CGTTACTATCGTGAAAACATGCACCGTTACCCCAACCAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGCACGACTGCGTCA 49% GC / 30,702.0 Da	100-mer	678 .. 777	77°C	Jun 14, 2023
✓ <b>gRNA Protospacer</b> /sequence = GCCTGTAGTACACTTAGTTG 45% GC / 6123.1 Da	20-mer	710 .. 729	45°C	Jun 14, 2023
✓ <b>Sanger Sequencing Primer</b> /sequence = ACGCGCTCCATCATCTTAAC 50% GC / 5997.0 Da	20-mer	843 .. 862	57°C	Jun 14, 2023
✓ <b>PCR Reverse</b> /sequence = CCCCTTTGATTGAGTTCATCATGAG 44% GC / 7623.0 Da	25-mer	1187 .. 1211	58°C	Jun 14, 2023