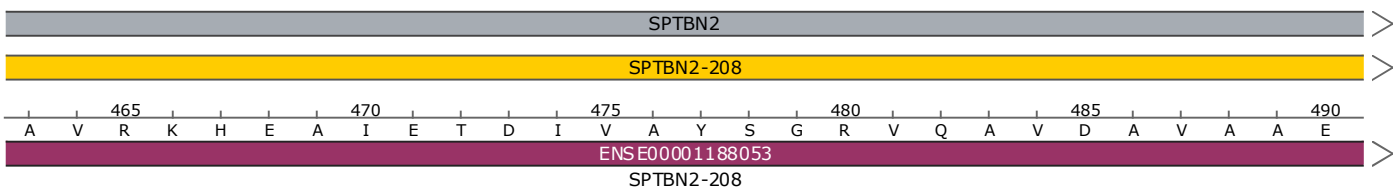


gRNA Protospacer
CATCGTGGCCTACAGCGGC

GCAGTACGGAAGCACGAAGCCATTGAGACGGACATCGTGGCCTACAGCGGCCGGGTGCAGGCAGTGGACGCCGTGGCTGCAGAGC
 CGTCATGCCTTCGTGCTTCGGTAACTCTGCCTGTAGCACCGGATGTCGCCGGCCCACGTCCGTACCTGCGGCACCGACGTCTCG

595



Donor Sequence SNV -> REV

gRNA Protospacer Sequence

PAM

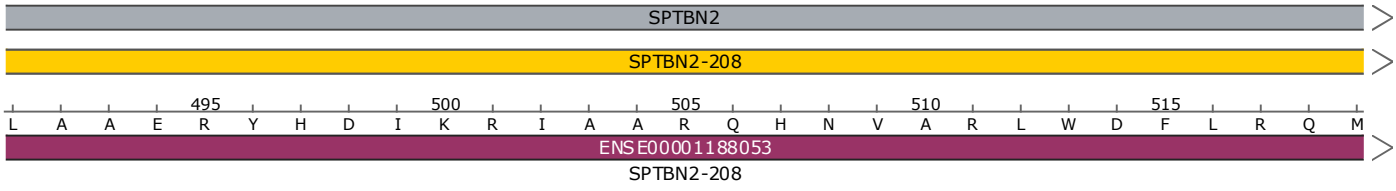
SNV

GCTTCGGTAACTCTGCCTGTAGCACCGGATGTCGCCGGCCACGTCCGTACCTGCGGCACCGACGTCTCG

Donor Template SNV -> REV

TGGCCGCGGAGCGCTACCACGACATCAAGCGCATCGCCGCTCGGCAGCACAACGTGGCACGGCTCTGGGACTTCTTGCGGCAGAT
 ACCGGCGGCTCGCGATGGTGCTGTAGTTCGCGTAGCGGGCAGCCGTCGTGTTGCACCGTGCCGAGACCCTGAAGAACGCCGTCTA

680



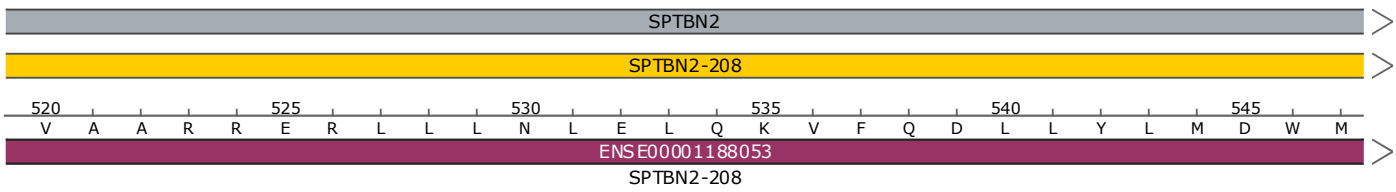
Donor Sequence SNV -> REV

ACCGCGGCTCGCGATGGTGCTGTAGTTC

Donor Template SNV -> REV

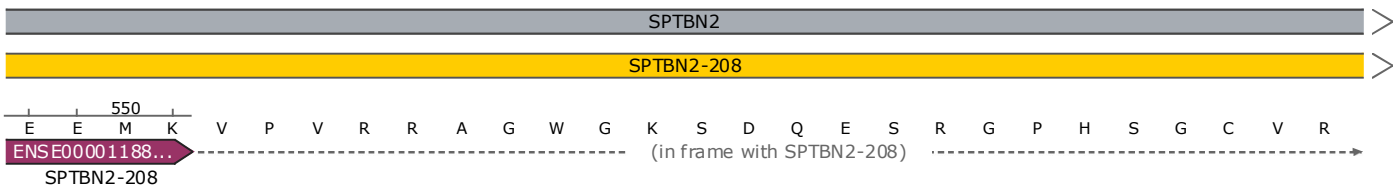
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765



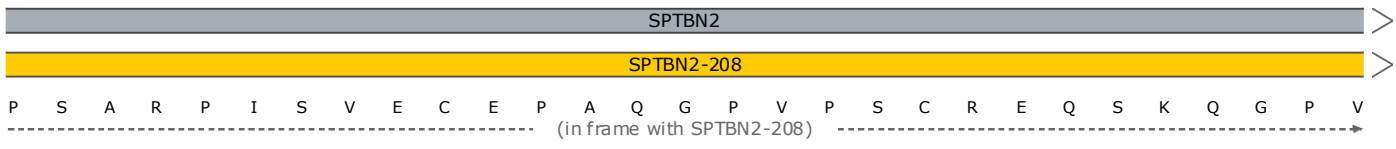
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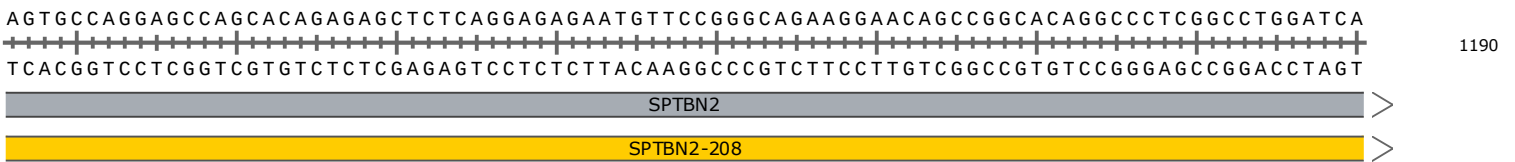
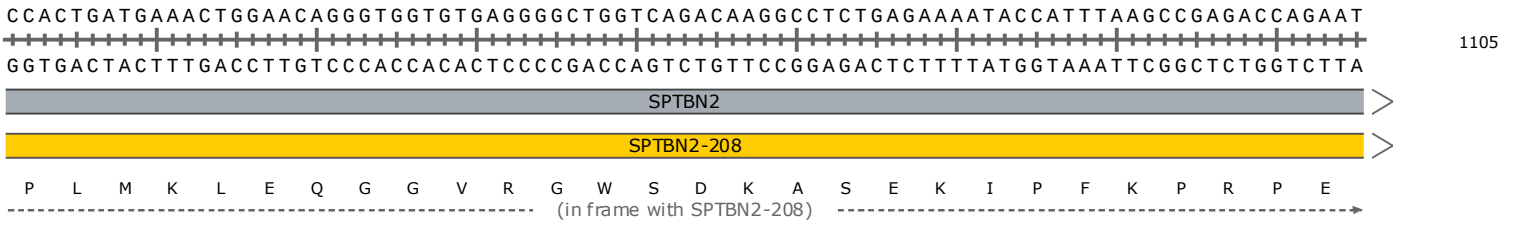
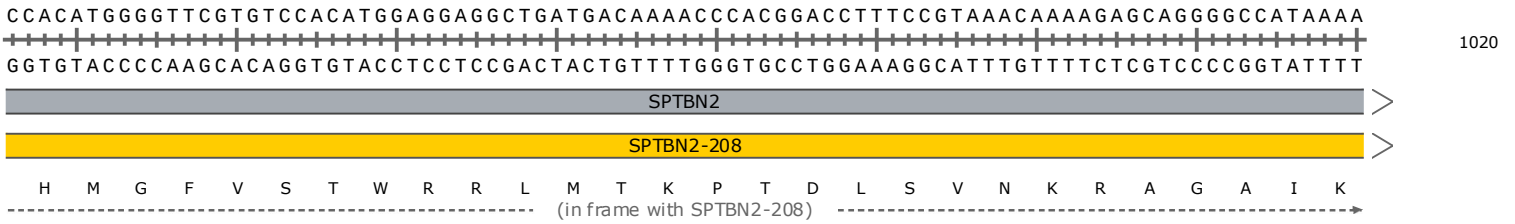
850



CGTCTGCTCGGCCGATCTCTGTGGAGTGTGAACCAGCACAGGGCCCTGTCCCCAGTTGCAGGGAACAAAGTAAACAGGGCCCTGT
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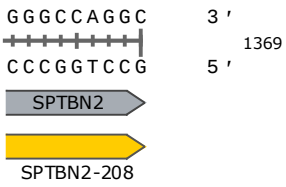
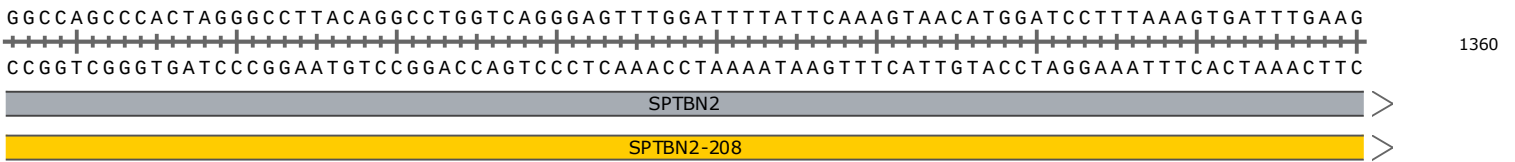
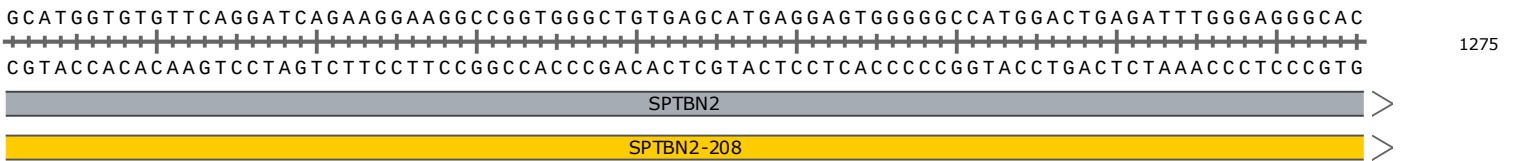
935





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Feature	Location	Size	Start	End	Type
✓ SPTBN2	1 .. 1369	1369 bp	■	→	gene
/note = gene ENSG00000173898 Protein coding					
C11orf80-216	1 .. 1369	1369 bp	■	←	prim_transcript
/note = primary transcript ENST00000534325 Protein coding					
SPTBN2-201	1 .. 1369	1369 bp	■	→	prim_transcript
/note = primary transcript ENST00000309996					
SPTBN2-203	1 .. 1369	1369 bp	■	→	prim_transcript
/note = primary transcript ENST00000529997					
✓ SPTBN2-208	1 .. 1369	1369 bp	■	→	prim_transcript
/note = primary transcript ENST00000533211					
SPTBN2-209	1 .. 1369	1369 bp	■	→	prim_transcript
/note = primary transcript ENST00000611817					
SPTBN2-210	1 .. 1369	1369 bp	■	→	prim_transcript
/note = primary transcript ENST00000617502					
SPTBN2-211	1 .. 1369	1369 bp	■	→	prim_transcript
/note = primary transcript ENST00000647510 Nonsense mediated decay					
SPTBN2-201	1 .. 777	777 bp	■	→	CDS
▶ 2 segments = 455 bp					
/codon_start = 1					
/note = coding sequence ENSP00000311489					
/translation = RLEKAEHERELALRTELIRQEKLEQLAARFDRKAAMRETWLSENQRLVSQ,,DNFGLELAAVEAAVRKHEAIETDIVAYSGRVQAVDAVAELAAERYHDIKRIARQHNVAR LWDFLRQMVAARRERLLLNLLELQKVFQDLLYLMDWMEEMK 151 amino acids = 17.8 kDa					
SPTBN2-203	1 .. 777	777 bp	■	→	CDS
▶ 2 segments = 455 bp					
/codon_start = 1					
/note = coding sequence ENSP00000433593					
/translation = RLEKAEHERELALRTELIRQEKLEQLAARFDRKAAMRETWLSENQRLVSQ,,DNFGLELAAVEAAVRKHEAIETDIVAYSGRVQAVDAVAELAAERYHDIKRIARQHNVAR LWDFLRQMVAARRERLLLNLLELQKVFQDLLYLMDWMEEMK 151 amino acids = 17.8 kDa					
✓ SPTBN2-208	1 .. 777	777 bp	■	→	CDS
▶ 2 segments = 455 bp					
/codon_start = 1					
/note = coding sequence ENSP00000432568					
/translation = RLEKAEHERELALRTELIRQEKLEQLAARFDRKAAMRETWLSENQRLVSQ,,DNFGLELAAVEAAVRKHEAIETDIVAYSGRVQAVDAVAELAAERYHDIKRIARQHNVAR LWDFLRQMVAARRERLLLNLLELQKVFQDLLYLMDWMEEMK 151 amino acids = 17.8 kDa					
SPTBN2-209	1 .. 777	777 bp	■	→	CDS
▶ 2 segments = 455 bp					
/codon_start = 1					
/note = coding sequence ENSP00000480692					
/translation = RLEKAEHERELALRTELIRQEKLEQLAARFDRKAAMRETWLSENQRLVSQ,,DNFGLELAAVEAAVRKHEAIETDIVAYSGRVQAVDAVAELAAERYHDIKRIARQHNVAR LWDFLRQMVAARRERLLLNLLELQKVFQDLLYLMDWMEEMK 151 amino acids = 17.8 kDa					
SPTBN2-210	1 .. 777	777 bp	■	→	CDS
▶ 2 segments = 455 bp					
/codon_start = 1					
/note = coding sequence ENSP00000482000					
/translation = RLEKAEHERELALRTELIRQEKLEQLAARFDRKAAMRETWLSENQRLVSQ,,DNFGLELAAVEAAVRKHEAIETDIVAYSGRVQAVDAVAELAAERYHDIKRIARQHNVAR LWDFLRQMVAARRERLLLNLLELQKVFQDLLYLMDWMEEMK 151 amino acids = 17.8 kDa					
✓ Donor Sequence SNV -> REV	525 .. 624	100 bp	■		misc_feature
✓ gRNA Protospacer Sequence	543 .. 562	20 bp	■		misc_feature

Feature	Location	Size	Color	Icon	Type
✓ SNV	562 .. 562	1 bp	Orange	Vertical bar	misc_feature
/note	= SNV = T REV = A				
✓ PAM	563 .. 565	3 bp	Yellow	Vertical bar	misc_feature
C11orf80	38,040 .. 136,931,995 bp	136,931,995 bp	Grey	Left arrow	gene
/note	= gene ENSG00000173715 Protein coding				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = CTAGGATGCTTAGGCTGGTCAGAAC 52% GC / 7722.1 Da	25-mer	169 .. 193	60°C	Aug 18, 2023
✓ Sanger Sequencing Primer /sequence = CAGGACAACCTTTGGGCTGG 58% GC / 5868.9 Da	19-mer	472 .. 490	57°C	Aug 18, 2023
✓ Donor Template SNV -> REV /sequence = CTTGATGTCGTGGTAGCGCTCGGCGGCCAGCTCTGCAGCCACGGCGTCCACTGCCTGCACCCGGCCGCTGTAGGCCACGATGCCGTCTCAATGGCTTCG 67% GC / 30,700.8 Da	100-mer	525 .. 624	85°C	Aug 18, 2023
✓ gRNA Protospacer /sequence = CATCGTGGCCTACAGCGGCT 65% GC / 6094.0 Da	20-mer	543 .. 561	62°C	Aug 18, 2023
✓ PCR Reverse /sequence = GTCTCGGCTTAAATGGTATTTTCTC 40% GC / 7629.0 Da	25-mer	1075 .. 1099	56°C	Aug 18, 2023