

EN...  
EIF2B3-201

Donor Template SNV -> REV

gRNA Protospacer

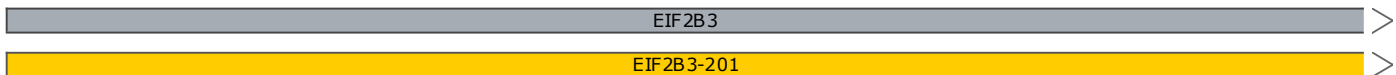
SNV

**CZK2J00155R EIF2B3\_I229M\_G10\_AA**  
2163 bp

5'  
3'

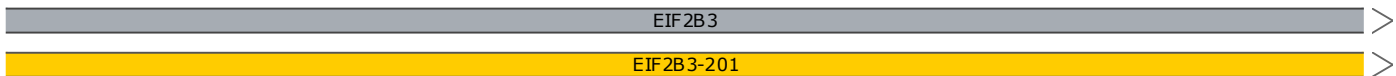
TCCATCTCAAAAAAAAAAAAAAAAAAGAAAAAGAAAAAAAAAGTCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTAAGA  
AGGTAGAGTTTTTTTTTTTTTTTTTTTTCTTTTTTTCAGTCCGTGTCCACCGAGTACGGACATTAGGGTCGTGAAATTCT

85



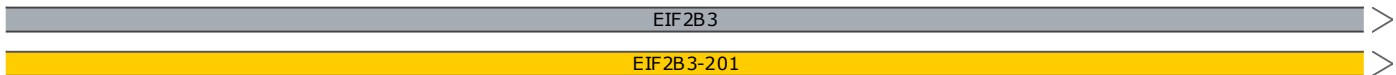
GGCTGCAGCAGGCGGATCACTTGAGGCCAGGAGTTTGAGACCAGCTTGGCCAACATGGCAAACCCCATCCCTACCAAAAAATAC  
CCGACGTCGTCCGCCTAGTGAACCTCCGGTCTCAAACCTCTGGTGAACCGGTTGTACCGTTTTGGGGTAGGGATGGTTTTTTTATG

170



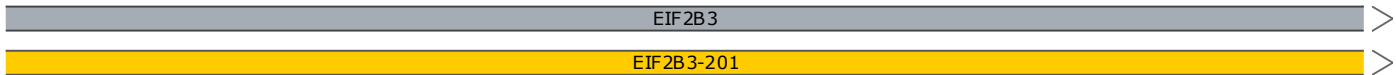
AAAAACAGCCAGGCATTGTGGCATGTGCCTGTAGTCCCAGCTACTTGGGAGGCTGGAGCACAAGAATCACTTGAACCCAGGAGGC  
TTTTTGTCCGGTCCGTAACACCGTACACGGACATCAGGGTCGATGAACCTCCGACCTCGTGTTCTTAGTGAACCTGGGTCTCCG

255



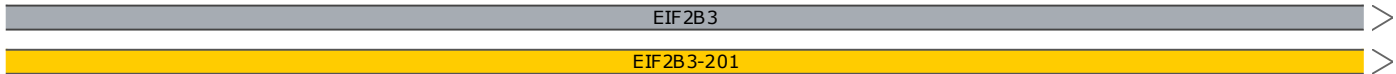
AGAGGTTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCGATAGAGCAAGACTGTCTCAAAAAAAAAAAAAAATTA  
TCTCCAACGTCACCTCGACTCTAGTACGGTGACGTGAGGTCGGACCCGCTATCTCGTTCTGACAGAGTTTTTTTTTTTTTTTAA

340



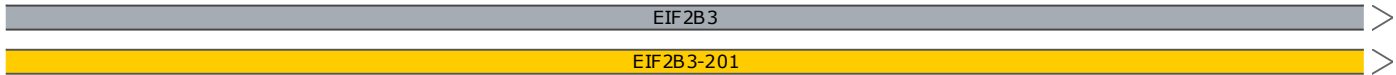
GCCAGGCATGTGGCTCTCACACCTGTAATCCCAGCTTCCAGCCACTCAGGAGGCTGAGGTGGGAGAATCACTTGAACCTGGGAG  
CGGTCCGTACACCGAGAGTGTGGACATTAGGGTCGAAAGGTCCGTGAGTCTCCGACTCCACCCTCTTAGTGAACCTGGACCCTC

425



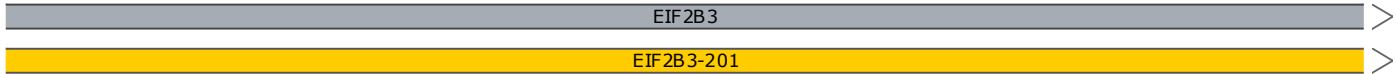
GCAAAGGTTGCAGTGAGCTGAGATCGCACCACTGTACTCCAGCCTGGGCAACAGACAGAGTGAGACCCTGTCTCAGAAAAA  
CGTTTTCCAACGTCACCTCGACTCTAGCGTGGTGACATGAGGTCGGACCCGTTGTCTGTCTCACTCTGGGACAGAGTCTTTTTTTTT

510



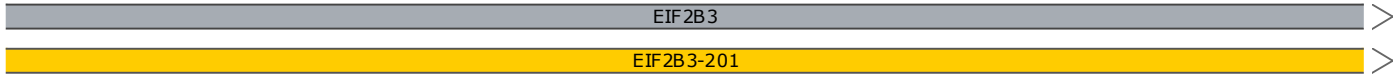
AAAAAAGTTTTCTCCAAAGTTAGCTCAGCCTATGTCCAGGAATGAGCAAGAGCAATTTGGAGGTTAACAGCAAGATGGAGTTG  
TTTTTTTCAAAGAGGGTTTTCAATCGAGTCGGATACAGGTCCTTACTCGTTCTCGTTAAACCTCCAATTGTCGTTCTACCTCAAC

595



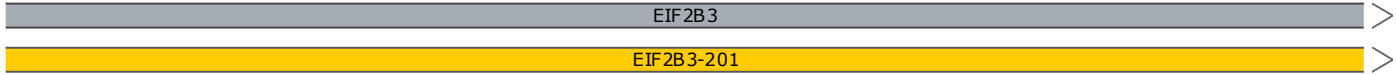
ATTAGGTCAGATTTCTTTCACTGTCATAATTTGTCAGTATTATTTTCAAAGGTGGTTTACCACAAAAAGCTTTTCGTGATCT  
TAATCCAGTCTAAAGAAAGTGACAGTATTAACAGTGACAATAAAAACGTTTCCACCAAAGTGGTGTTTTTTCGAAAGCACTAGA

680



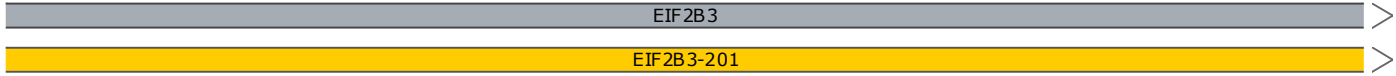
GGCCCCCTTGCTACCTGATTAGCTTAACCTTCTGCTTTTCTTAAACTCATACAGGCTACTGTCCATTGGATTATGAATTCC  
CCGGGGGAACGGATGGACTAATCGAATTGGAAGACGAAAAGGAGAATTTGAGTATGTCCGATGACAGGTAACCTAATACTTAAGG

765



TTGAAGTCAGAAATGATGATTTTCAAAGGCCTAGCACAGTAACCTCGCATATGCTTGGTAAATGCTACATAAATTAATTAGCAATA  
AACTTCAGTCTTTACTACATAAAGGTTCCGGATCGTGTCAATTGAGCGTATACGAACCATTTACGATGTATTTAATTAATCGTTAT

850



TAAAATTCTAATAAGGTCACAGTGTGAGAGAACACTGAAAAACATGTGCTAGTTTCTCATCTCTCTGCTTTCCATTGCTAAGTAT  
ATTTTAAGATTATTCAGTGTACACTCTCTTGTGACTTTTGTACACGATCAAAGAGTAGAGAGACGAAAGGTAACGATTTCATA

935

EIF2B3

EIF2B3-201

PCR Forward

ACTGAACTAAAGATCAGGTCCTTC

AAATAAAAACATAAATAAAAAACACACACTGAACTAAAGATCAGGTCCTTCTTCCCTAGTACAGATTCTGATCACTTAGACC  
TTTATTTTTGTATTTATTTTTGTGTGTGACTTGATTTCTAGTCCAGGGAAGAAGGGGATCATGTCTAAGGACTAGTGAATCTGG

1020

EIF2B3

EIF2B3-201

Sanger Sequencing Primer

CCTGTCTCAGTACCCACCAG

CAACATCCTGTCTCAGTACCCACCAGGAAGCACTCTGCTTCTCCGAACTGCCAAGTCAATGCCACATTTGATCTCTGACAGTCCC  
GTTGTAGGACAGAGTCATGGGTGGTCCTTCTGTGAGACGAAGAAGGCTTGACGGTTCAGTTACGGTGTAAACTAGAGACTGTCAGGG

1105

EIF2B3

EIF2B3-201

Donor Template SNV -> REV

CCAGACAGTCAGGTTTCT

AAGGTGCCATGACAGGAAAGGATTTGGCTTTTCTTGTATGCACAGAGCTTTTGTATCCGGGTATGTTCCAGACAGTCAGGTTTCT  
TTCCACGGTACTGTCCTTCTAAACCGAAAAGGAACATACGTGTCTCGAAAAGTGGCCATACAAGGTCTGTCAGTCCAAAGA

1190

EIF2B3

EIF2B3-201

Donor Template SNV -> REV

Donor Template SNV -> REV

CATATTTGGCCATTCTTTCTTTCTAGGTCAATAAATTCTATCCGGAGTGAAGTCAATTTAGTGAGAAAACAGTTTT  
CATATTTGGCCATTCTTTCTTTCTAGGTCAATAAATTCTATCCGGAGTGAAGTCAATTTAGTGAGAAAACAGTTTTCTT  
GTATAAACC6GTAAGAAAGAAAGATCCAGTTATTGAAGATAG6CCTCACTTGACTAAGGTATAAATCACTCTTTTGTCAAAGGA

1275

EIF2B3

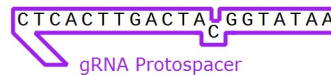
EIF2B3-201

220 225 230 235  
S I T S I R S E L I P Y L V R K Q F S  
ENSE00001064945  
EIF2B3-201

Donor Template SNV -> REV



SNV



CAGCTTCTCACAAACAGGGACAAGAAGAAAAAGAGGAGGATCTAAAGAAAAAGGAGCTGAAGTCCTTAGGTCAGTTCTTGGGTTG  
GTCGAAGGAGTGTGTCCTGTTCTTTTCTCCTCCTAGATTTCTTTTCTCGACTTCAGGAATCCAGTCAAGAACCCAAAC

1360

EIF2B3

EIF2B3-201

240 245 250 255 260  
S A S S Q Q G Q E E K E E D L K K K E L K S L G Q F L G W  
ENSE00001064945  
EIF2B3-201



CGCCACCACGCCCGGCTAATTTTTGTATTTTAGTAGA  
-----  
GCGGTGGTGCGGGCCGATTAAAAACATAAAAATCATCT

3 '  
2163  
5 '



Feature	Location	Size	Start	End	Type
✓ <b>EIF2B3</b>	1 .. 2163	2163 bp	■	➔	gene
/note	= gene <a href="#">ENSG00000070785</a> Protein coding				
✓ <b>EIF2B3-201</b>	1 .. 2163	2163 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000360403</a>				
<b>EIF2B3-203</b>	1 .. 2163	2163 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000372183</a>				
<b>EIF2B3-204</b>	1 .. 2163	2163 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000439363</a>				
<b>EIF2B3-210</b>	1 .. 2163	2163 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000620860</a>				
✓ <b>Donor Template SNV -&gt; REV</b>	1173 .. 1272	100 bp	■	⌊	misc_feature
✓ <b>EIF2B3-201</b>	1217 .. 1344	128 bp	■	➔	CDS
/codon_start	= 1				
/note	= coding sequence <a href="#">ENSP00000353575</a>				
/translation	= SITSIRSELIPYLVRKQFSSASSQQGQEEKEEDLKKKELKSL 42 amino acids = 4.8 kDa				
<b>EIF2B3-203</b>	1217 .. 1344	128 bp	■	➔	CDS
/codon_start	= 1				
/note	= coding sequence <a href="#">ENSP00000361257</a>				
/translation	= SITSIRSELIPYLVRKQFSSASSQQGQEEKEEDLKKKELKSL 42 amino acids = 4.8 kDa				
<b>EIF2B3-204</b>	1217 .. 1344	128 bp	■	➔	CDS
/codon_start	= 1				
/note	= coding sequence <a href="#">ENSP00000396985</a>				
/translation	= Q*LLSGVN*FHI**ENSPQLPHNRDKKKKRRI*RKRS*SP* 42 codons (6 internal stop codons)				
<b>EIF2B3-210</b>	1217 .. 1344	128 bp	■	➔	CDS
/codon_start	= 1				
/note	= coding sequence <a href="#">ENSP00000483996</a>				
/translation	= SITSIRSELIPYLVRKQFSSASSQQGQEEKEEDLKKKELKSL 42 amino acids = 4.8 kDa				
✓ <b>PAM</b>	1232 .. 1234	3 bp	■	⌊	misc_feature
✓ <b>gRNA Protospacer</b>	1235 .. 1254	20 bp	■	⌊	misc_feature
✓ <b>SNV</b>	1247 .. 1247	1 bp	■	⌊	misc_feature
/note	= SNV = G REV = T				

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b>  /sequence = ACTGAACTAAAGATCAGGTCCTTC 44% GC / 7610.0 Da	25-mer	963 .. 987 →	58°C	Sep 29, 2023
✓ <b>Sanger Sequencing Primer</b>  /sequence = CCTGTCTCAGTACCCACCAG 60% GC / 5997.9 Da	20-mer	1027 .. 1046 →	59°C	Sep 29, 2023
✓ <b>Donor Template SNV -&gt; REV</b>  /sequence = CCAGACAGTCAGGTTTTCATATTTGGCCATTCTTTCTTTCTAGGTCAATAACTTCTATCCGGAGTGAAGTATTCCATATTTAGTGAGAAAACAGTTTT 37% GC / 30,717.1 Da	100-mer	1173 .. 1272 →	71°C	Sep 29, 2023
✓ <b>gRNA Protospacer</b>  /sequence = AATATGGCATCAGTTCACTC 40% GC / 6076.0 Da	20-mer	1235 .. 1254 ←	42°C	Sep 29, 2023
✓ <b>PCR Reverse</b>  /sequence = TAGAGAACAGGGGAACTAAGAAGTG 44% GC / 7837.2 Da	25-mer	1639 .. 1663 ←	57°C	Sep 29, 2023