

CZK2J00153 EIF2B1_V183F_B06_AB
 929 bp

5' A A A C T G C G G A T T A C A G T C C A A C A G G A T C A G A A C C A G A A T G T G C C C C A G C T T G C C A G C A G T C A G C A C T G C C T T T C A T T G T A C C T T
 3' T T T G A C G C C T A A T G T C A G G T T G T C C T A G T C T T G G T C T T A C A C G G G G G T C G A A C G G T C G T C A G T C G T G A C G G A A A G T A A C A T G G A A

EIF2B1
EIF2B1-201

85

PCR Forward
T A A G T A G T T A A C T C C G T

T T C C T G C C T T T G G A A G A A A A A T C A C T G A A T T T G C A G C A G G C C G C A G T A T A T G A T C T A G G G G T T T C A C T T A A G T A G T T A A C T C C G T
 A A G G A C G G A A A C C T T C T T T T A G T G A C T T A A A C G T C G T C C G G C G T C A T A T A C T A G A T C C C C A A A G T G A A T T C A T C A A T T G A G G C A

EIF2B1
EIF2B1-201

170

PCR Forward
G G A A G A G C

G G A A G A G C A G A G A T T G T A T T G A T G A A G A T T T T A T C A A G G A A T A G G T A A C T T A T A T C T C C C T C T C T C T A G A C G A T A A T C A A A G C A
 C C T T C T C G T C T C T A A C A T A A C T A C T T C T A A A A A T A G T T C C T T A T C C A T T G A A T A T A G A G G G A G A G A G A T C T G C T A T T A G T T T C G T

EIF2B1
EIF2B1-201

255

A A A C T T C C T C C T T T T T C C T G A A T T T A C A T C T C T T A C C C A G A G T C T A A G A G T A T A G T T T T C C A A A A A T A C T T C T T T C T A A A G A A C
 T T T G A A G G A G G A A A A A A G G A C T T A A A T G T A G A G A A T G G G T C T C A G A T T C T C A T A T C A A A A G G T T T T A T G A A G A A A G A T T T C T T G

EIF2B1
EIF2B1-201

340

T C A A A T T C T T G T T T C C T T A G T C C A A A G T A T T G G G A T C T G C C C C T T A A C C C A T T A G T A T T A A T G T G A G T T T C A A G C A A A C A T C C A C
 A G T T T A A G A A C A A A G G A A T C A G G T T T C A T A A C C C T A G A C G G G G A A T T G G G T A A T C A T A A T T A C A C T C A A A G T T C G T T T G T A G G T G

EIF2B1
EIF2B1-201

425

T G T C C A C A T T A G G T G A C A T A C A T C A C T G T G G T A C T G T C T T G T A C T T T C T A A C G T T C T C A A A A T G T C A T C T T C A G T A A G A A A A T
 A C A G G T G T A A T C C A C T G T A T G T A G T G A C A C C A T G A C A G A A C A T G A A A G A G A T T G C A A G A G T T T T A C A G T A G A A G T C A T T C T T T T A

EIF2B1
EIF2B1-201

510

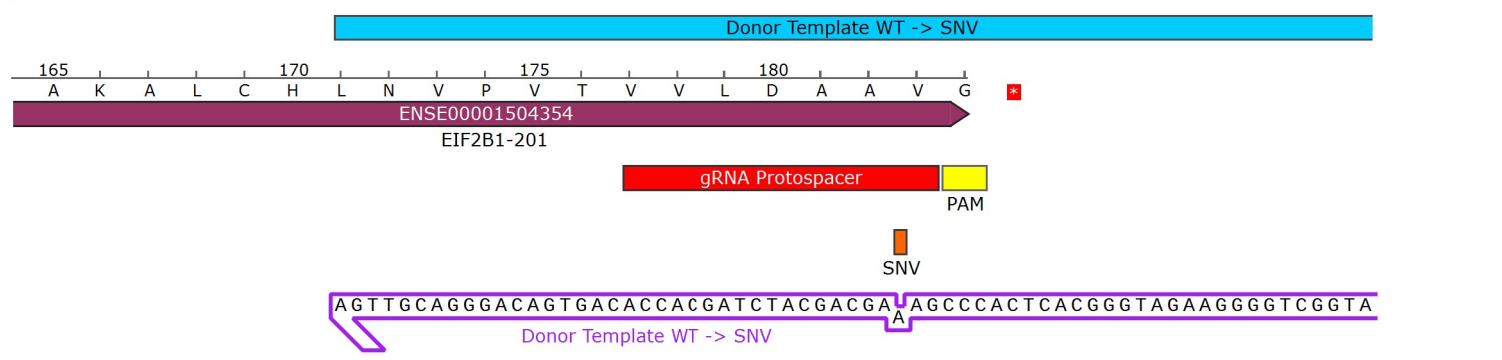
K K M
ENSE00001...
EIF2B1-201

gRNA Protospacer
T G G T G C T A G A T G C T G C T G T C

G G C C A A A G C C C T C T G C C A C C T C A A C G T C C C T G T C A C T G T G G T G C T A G A T G C T G C T G T C G G G T G A G T G C C C A T C T T C C C C A G C C A T
 C C G G T T T C G G G A G A C G G T G G A G T T G C A G G G A C A G T G A C A C C A C G A T C T A C G A C G A C A G C C C A C T C A C G G G T A G A A G G G G T C G G T A

EIF2B1
EIF2B1-201

595



AATCACCTCCCCACCCCATGCTGGCTTACAGCAAGTTTTTCAGATTGAAAGTTTGAGTCCCGTTCATAAAGCCACACCAGGTAGC
TTAGTGGAGGGGGTGGGGTACGACCGAATGTCGTTCAAAGTCTAACTTTCAAACCTCAGGGCAAGTATTTCTGGTGTGGTCCATCG

680

EIF2B 1

EIF2B 1-201

Donor Template WT -> SNV

TTAGTGGAGGGGGTGGGGTACGACCGAATGTCGTT

Donor Template WT -> SNV

GTCCTACTTCTTAATTAATAGCTGCCCTAAACCAGCAAGCTTGTTATGAGGTTGTGATAGCATACAAAGAAGACAGAGCTGTAGG
CAGGATGAAGAATTAATTATCGACGGGATTTGGTCGTTCGAACAATACTCCAACACTATCGTATGTTTCTTCTGTCTCGACATCC

765

EIF2B 1

EIF2B 1-201

CGACATCC

Sanger Sequencing Primer

ATGTTGGGGAGAGTGGGAGTTGTGTCTATAGCTTTATGGCTGTAAGTGTGAGTTTGTGTTGTTGTTGTTTTGTTTGTGTTGTT
TACAACCCCTCTCACCCCTCAACACAGATATCGAAATACCGACATTCACAACCTCAAACAACAACAACAACAACAAAAACAACAAACAA

850

EIF2B 1

EIF2B 1-201

TACAACCCCTCT

Sanger Sequencing Primer

CTCTCACCCCTCAACACAGATATCG

PCR Reverse

TTTTGTTTTTTTGGAGATGGAGTCTTGCCCTGTTGCCAGGCTGGAGTGCAATGGCATGATCTTGGTTCACTGCAATCTC
AAAAAATAAACTCTACCTCAGAACGGGACAACGGGTCAGACCTCACGTTACCGTACTAGAACCAAGTGACGTTAGAG

3'

929

5'

EIF2B 1

EIF2B 1-201

Feature	Location	Size	±	Type
✓ EIF2B1	1 .. 929	929 bp	■ →	gene
/note	= gene ENSG00000111361 Protein coding			
✓ EIF2B1-201	1 .. 929	929 bp	■ →	prim_transcript
/note	= primary transcript ENST00000424014			
EIF2B1-203	1 .. 929	929 bp	■ →	prim_transcript
/note	= primary transcript ENST00000534960			
EIF2B1-204	1 .. 929	929 bp	■ →	prim_transcript
/note	= primary transcript ENST00000537073			
EIF2B1-205	1 .. 929	929 bp	■ →	prim_transcript
/note	= primary transcript ENST00000539951			
EIF2B1-204	1 .. 138	138 bp	■ →	CDS
/note	= coding sequence ENSP00000444183			
/translation	= KLRITVQQDQNNVPPACQQSALPFIVPFPFAFGRKITEFAAGRSI* 45 amino acids = 5.0 kDa			
✓ EIF2B1-201	502 .. 570	69 bp	■ →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000416250			
/translation	= KKMAKALCHLNVPVTVLDAAV 23 amino acids = 2.3 kDa			
EIF2B1-205	502 .. 570	69 bp	■ →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000438060			
/translation	= KKMAKALCHLNVPVTVLDAAV 23 amino acids = 2.3 kDa			
✓ Donor Template WT -> SNV	531 .. 630	100 bp	■	misc_feature
✓ gRNA Protospacer	549 .. 568	20 bp	■	misc_feature
✓ SNV	566 .. 566	1 bp	■	misc_feature
/note	= WT = G SNV = T			
✓ PAM	569 .. 571	3 bp	■	misc_feature
DDX55	930 19,258	18,329 bp	■ ←	gene
/note	= gene ENSG00000111364 Protein coding			
DDX55-201	930 19,236	18,307 bp	■ ←	prim_transcript
/note	= primary transcript ENST00000238146 Protein coding			
DDX55-203	930 ..3319	2390 bp	■ ←	prim_transcript
/note	= primary transcript ENST00000421670 Protein coding			
GTF2H3-214	16,404 .. 4,294 19,952,751 bp		■ ←	prim_transcript
/note	= primary transcript ENST00000618160 Protein coding			
GTF2H3	16,405 .. 4,294 19,952,750 bp		■ ←	gene
/note	= gene ENSG00000111358 Protein coding			

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = TAAGTAGTAACTCCGTGGAAGAGC 44% GC / 7730.1 Da	25-mer	154 .. 178	58°C	Sep 28, 2023
✓ Donor Template WT -> SNV /sequence = TTGCTGTAAGCCAGCATGGGGTGGGGGAGGTGATTATGGCTGGGAAGATGGGCACTCACCCGAAAGCAGCATCTAGCACCACAGTGACAGGGACGTTGA 57% GC / 31,208.3 Da	100-mer	531 .. 630	81°C	Sep 28, 2023
✓ gRNA Protospacer /sequence = TGGTGCTAGATGCTGCTGTC 55% GC / 6155.1 Da	20-mer	549 .. 568	59°C	Sep 28, 2023
✓ Sanger Sequencing Primer /sequence = TCTCCCAACATCCTACAGC 55% GC / 5941.9 Da	20-mer	758 .. 777	58°C	Sep 28, 2023
✓ PCR Reverse /sequence = GCTATAGACACAACCTCCCACTCTC 50% GC / 7201.7 Da	24-mer	774 .. 797	58°C	Sep 28, 2023