

CZK2J00185_BLOC1S1_H69P_F01.2_AB
855 bp

PCR Forward

g t t a a g a a a t t t c g g c a a c t a g c a g

5' TGTTTTGCAAGGTCCTTTTCAGCTCCGGCATTTCAGAGATTAGTTAAGAAATTTTCGGCAACTAGCAGAATAGTAATGGATGGGTAG
 3' ACAAACGTTCCAGGAAAAGTCGAGGCCGTAAGTCTCTAATCAATTCTTTAAAGCCGTTGATCGTCTTATCATTACCTACCCATC

BLOC1S1

BLOC1S1-201

GGAACCTTTAACACTACCCCTCAAAAAACCAAGTCTCCCCTCCAATTCCTTTTCCCCTCTCCCCAGAAAAGAGGAGGCGAGAGG
 CCTTGGAATTTGTGATGGGGAGTTTTTGGTTTCAGAGGGGAGGTTAAGGAAAAGGGGGAGAGGGGTCTTTTCTCCTCCGCTCTCC

BLOC1S1

BLOC1S1-201

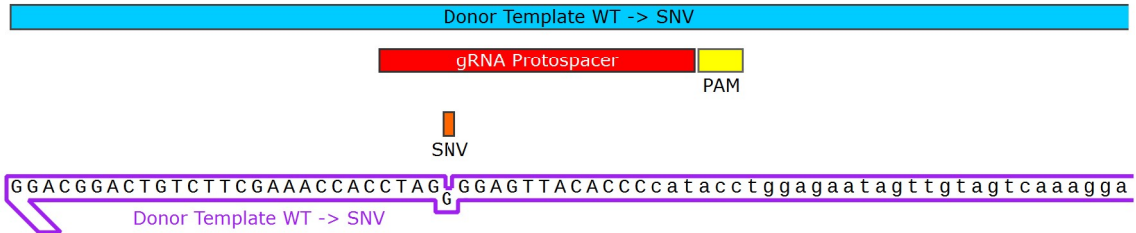
gRNA Protospacer

GATCACCTCAATGTGGGgta

CTATCACTGCAGCGACCTGCCTGACAGAAGCTTTGGTGGATCACCTCAATGTGGGGTATGGACCTCTTATCAACATCAGTTTCTT
 GATAGTGACGTCGCTGGACGGACTGTCTTCGAAACCACCTAGTGGAGTTACACCCCATACCTGGAGAATAGTTGTAGTCAAAGGA

BLOC1S1

BLOC1S1-201



CCTTCCCACCCCGCCCAAGTTTAGGCACTGGCCAGTCTGGCCCTCAAATAGCTGTTGAAGGGGTGGGATGTTCCACTAATTCCC
 GGAAGGGGTGGGGCGGGTTCAAATCCGTGACCGGTCAGACCGGGAGTTTATCGACAACCTCCCCACCCCTACAAGGTGATTAAGGG

BLOC1S1

BLOC1S1-201

Donor Template WT -> SNV

ggaaggggtggggcgggttcaaatccgtga

Donor Template WT -> SNV

CTATCCTACCCCGCCCCTCCAGCTCTTTGTAGAGCAACTTGAGTCAACTCTGAGTCCTAGCACTGGGCAAGGGAGGAACAGCTG
 GATAGGATGGGGCGGGGAGGGTCGAGAAACATCTCGTTGAACTCAGTTGAGACTCAGGATCGTGACCCGTTCCCTCCTTGTGCGAC

BLOC1S1

BLOC1S1-201

ggggaggggtcgagaaacatc

Sanger Sequencing Primer

CCGTGGTTAGAGAAGCAGCCAGATTTCCCCTTCCCACGTTAACTTCCCTGGCATTTACAACCTTGATGCCATCTGCCACCTCCC
 GGCACCAATCTCTTCGTCGGTCTAAAGGGGAAGGGGTGCAATTGAAGGGACCGTAAATGTTGAACTACGGTAGACGGGTGGAGGG

BLOC1S1

BLOC1S1-201

TTCACCTTCCAAGTCCAGCTGTCACCTTCAGCAGGAGGGAGAGCACCTCCTTACATTACAGCTTACCACCTCTCCTCTGCCTCC
 AAGTGGGAAGGTTTCAGGTCGACAGTGAAGTCGTCTCCCTCTCGTGGGAGGAAGTAATGTCGAATGGTGGGAGAGGAGACGGAGG

BLOC1S1

BLOC1S1-201

CACCCTCTGGCAAGCCTGGGGAGCAGCTGGCAGGAAAGAGATGGCAGAGCTGGTGGTGGTGGAGAGTAGAACCTGTTCCGGGAGCT
GTGGGAGACCGTTTCGGACCCCTCGTCGACCGTCCTTTCTCTACCGTCTCGACCACCACCCTCTCATCTTGGACAAGGCCCTCGA

680

BLOC1S1

BLOC1S1-201

ATGGCAGAGCCAGGCTGTCTCTTACCTTCTATTGGGTCTCTAGGGACCACACCCTGCCCCAGCCCTAAATGAGAATGCAAGTAA
TACCGTCTCGGTCCGACAGAGAATGGAAGGATAACCCAGAGATCCCTGGTGTGGGACGGGGTCGGGATTTACTCTTACGTTTCATT

765

BLOC1S1

BLOC1S1-201

CAGCCAAAGACTTGGGAAAAAGCAAAGAACATTGTCTCTTGACCCTAAGTGACCCAGAAGCGTGACAGAGATGATGATTTGCTAGT
GTCGGTTTCTGAACCCTTTTTCGTTTCTTGTAACAGAGAAGTGGGATTCCTGGGTCTTCGCACGTCTCTACTACTAAACGATCA

850

BLOC1S1

BLOC1S1-201

gaaccctttttcgtttcttgtaaca

PCR Reverse

CTGCC

3'

+++++

855

GACGG

5'

BLOC1S1

BLOC1S1-201

BLOC1S1-201

Feature	Location	Size	±	Type
	1 ..5471	5471 bp	☐ →	gene
/note = gene ENSG00000258311 Protein coding				
	1 ..5471	5471 bp	☐ →	prim_transcript
/note = primary transcript ENST00000550412 Protein coding				
	1 ..5459	5459 bp	☐ →	prim_transcript
/note = primary transcript ENST00000257899 Nonsense mediated decay				
	1 ..3186	3186 bp	☐ →	prim_transcript
/note = primary transcript ENST00000551946 Nonsense mediated decay				
	1 ..2562	2562 bp	☐ →	prim_transcript
/note = primary transcript ENST00000549424 Protein coding				
✓ BLOC1S1	1 .. 855	855 bp	☐ →	gene
/note = gene ENSG00000135441 Protein coding				
✓ BLOC1S1-201	1 .. 855	855 bp	☐ →	prim_transcript
/note = primary transcript ENST00000547076				
BLOC1S1-202	1 .. 855	855 bp	☐ →	prim_transcript
/note = primary transcript ENST00000548556				
BLOC1S1-203	1 .. 855	855 bp	☐ →	prim_transcript
/note = primary transcript ENST00000548925				
BLOC1S1-204	1 .. 855	855 bp	☐ →	prim_transcript
/note = primary transcript ENST00000549147				
BLOC1S1-205	1 .. 855	855 bp	☐ →	prim_transcript
/note = primary transcript ENST00000551926				
BLOC1S1-206	1 .. 855	855 bp	☐ →	prim_transcript
/note = primary transcript ENST00000553100 Nonsense mediated decay				
BLOC1S1-203	153 .. 225	73 bp	☐ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000447537				
/translation = KRRREAITAATCLTEALVDHLNV 24 amino acids = 2.6 kDa				
BLOC1S1-204	153 .. 225	73 bp	☐ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000450328				
/translation = KRRREAITAATCLTEALVDHLNV 24 amino acids = 2.6 kDa				
✓ Donor Template WT -> SNV	186 .. 285	100 bp	☐ ⇄	misc_feature
✓ gRNA Protospacer	209 .. 228	20 bp	☐ ⇄	misc_feature
✓ SNV	213 .. 213	1 bp	☐ ⇄	misc_feature
/note = WT = A SNV = C				
✓ PAM	229 .. 231	3 bp	☐ ⇄	misc_feature
ITGA7-215	15,083 ..4,258,953,924 bp		☐ ←	prim_transcript
/note = primary transcript ENST00000556273 Nonsense mediated decay				
ITGA7-221	28,257 ..4,258,940,750 bp		☐ ←	prim_transcript
/note = primary transcript ENST00000686981 Nonsense mediated decay				
ITGA7	28,274 ..4,258,940,733 bp		☐ ←	gene
/note = gene ENSG00000135424 Protein coding				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = gttaagaaatttcggcaactagcag 40% GC / 7714.1 Da	25-mer	42 .. 66 →	56°C	Nov 6, 2023
✓ Donor Template WT -> SNV /sequence = agtgcctaaacttgggcgggtggggaaggaggaaactgatgttgataagaggtccatacCCCACATTGAGGGGATCCACCAAAGCTTCTGTCAGGCAGG 54% GC / 31,151.3 Da	100-mer	186 .. 285 ←	79°C	Nov 6, 2023
✓ gRNA Protospacer /sequence = GATCACCTCAATGTGGGgta 50% GC / 6157.1 Da	20-mer	209 .. 228 →	55°C	Nov 6, 2023
✓ Sanger Sequencing Primer /sequence = ctacaaagagctgggagggg 60% GC / 6256.1 Da	20-mer	354 .. 373 ←	59°C	Nov 6, 2023
✓ PCR Reverse /sequence = acaatgttctttgctttttccaag 36% GC / 7573.0 Da	25-mer	776 .. 800 ←	58°C	Nov 6, 2023