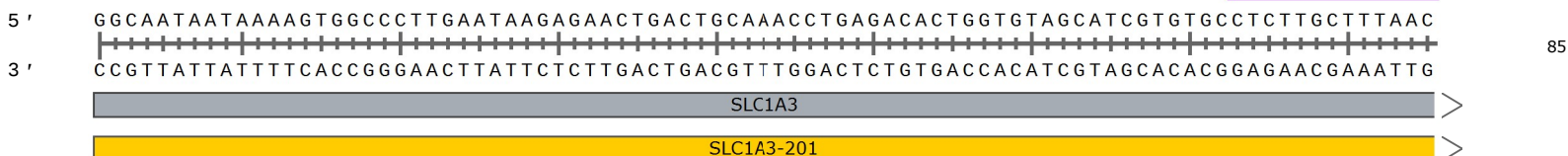


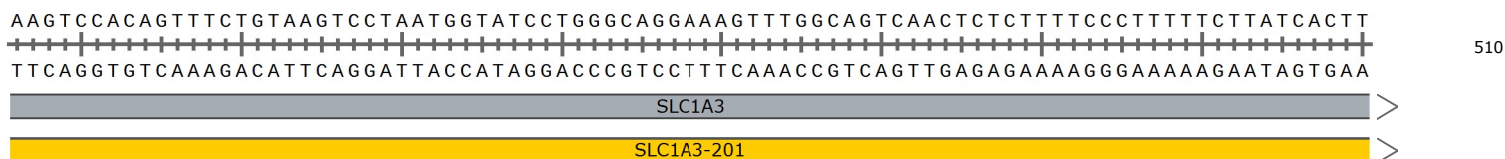
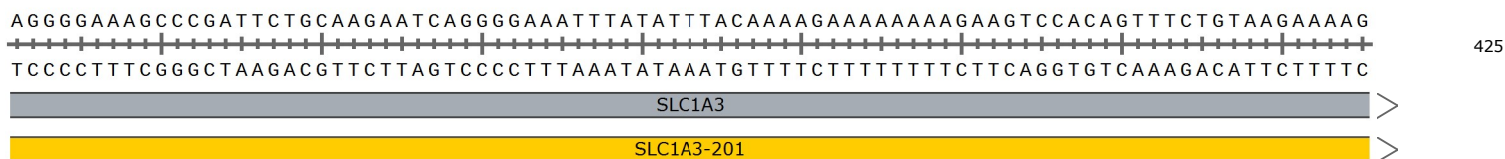
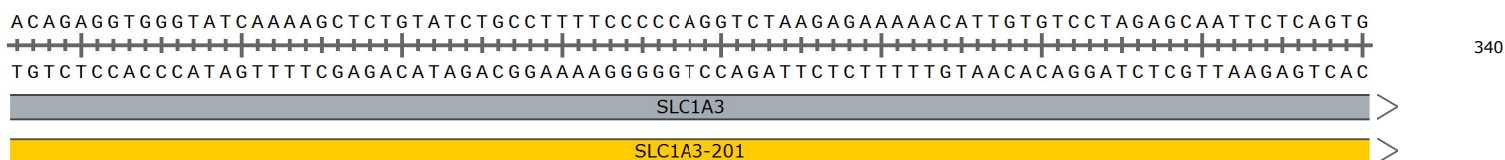
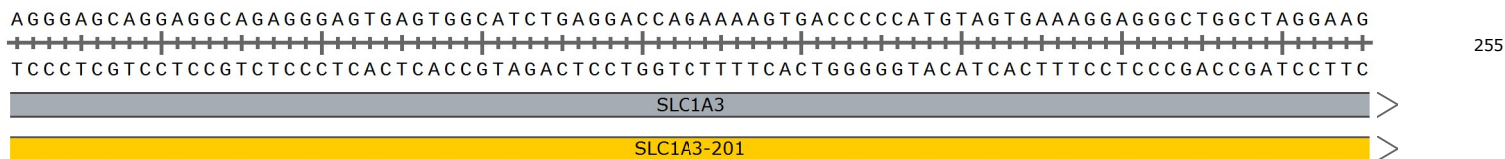
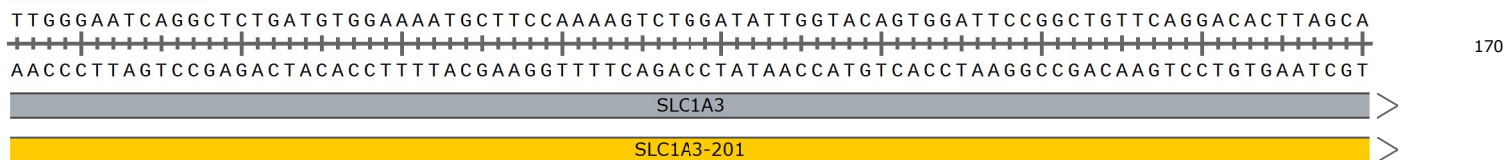
PCR Forward

CTCTTGCTTTAAC



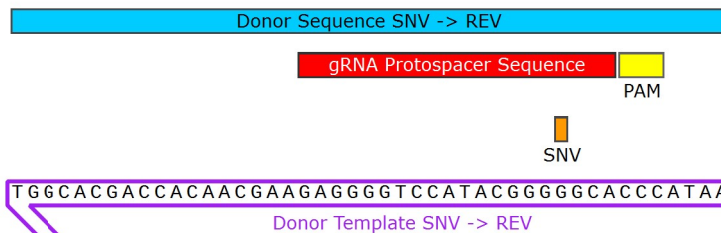
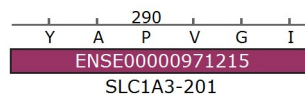
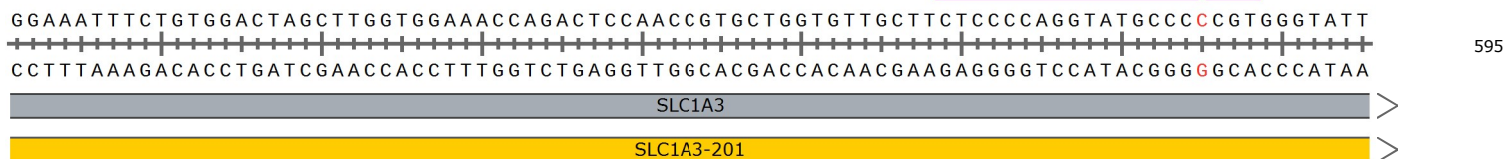
PCR Forward

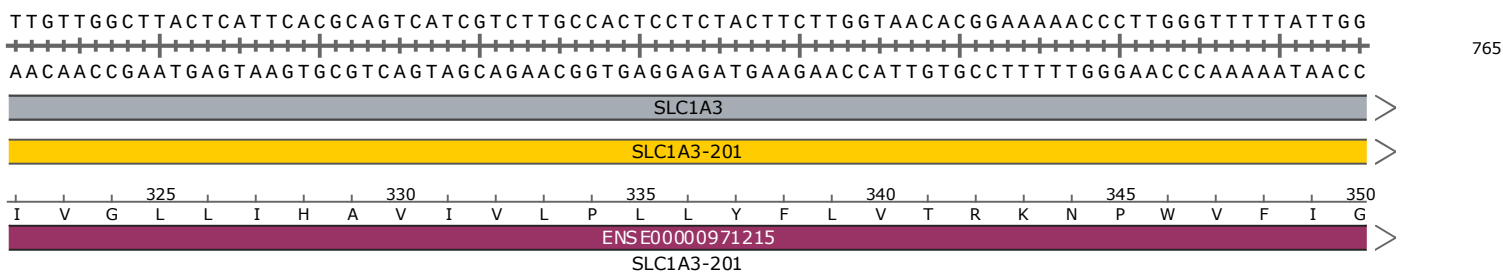
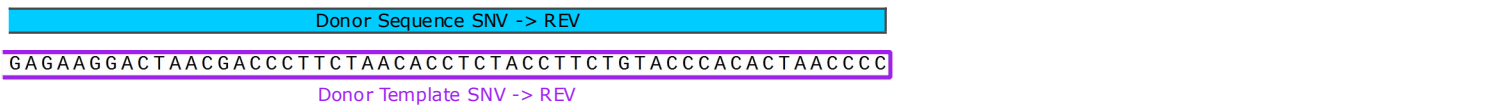
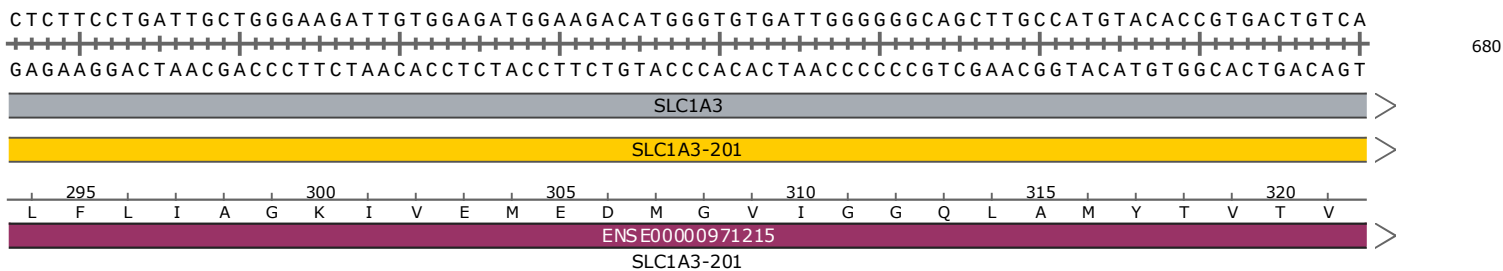
TTGGGAATCAGG



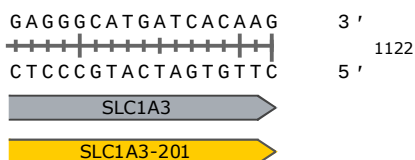
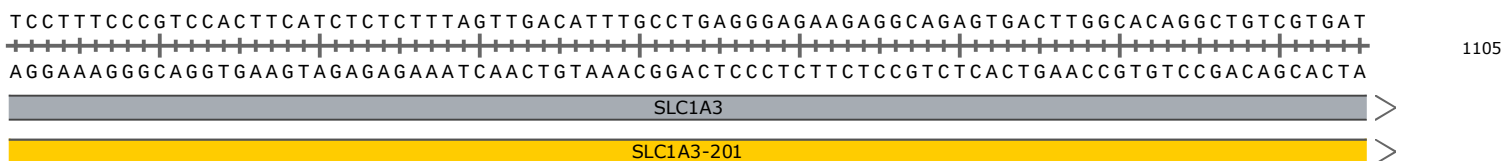
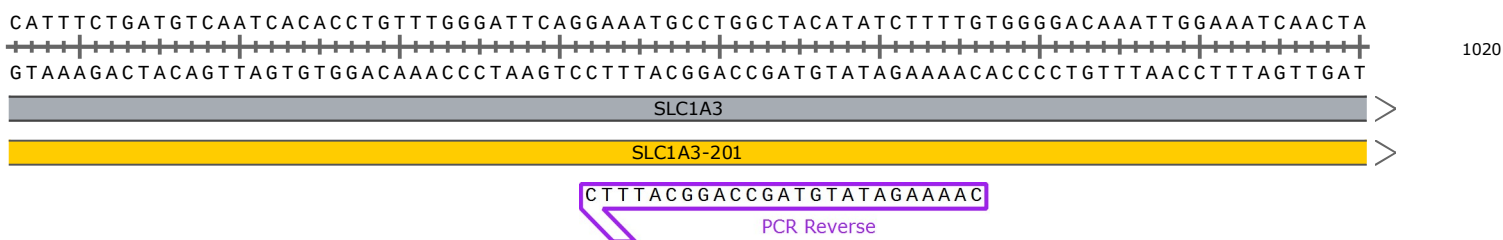
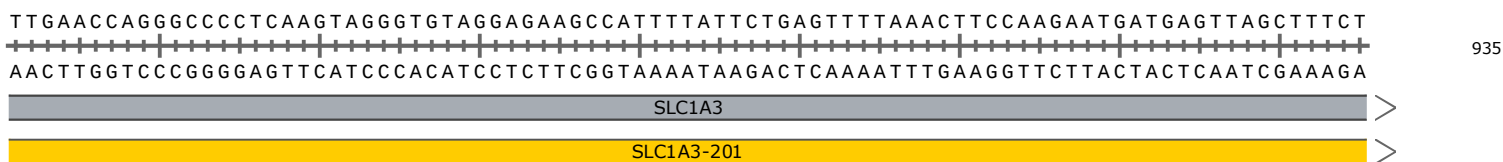
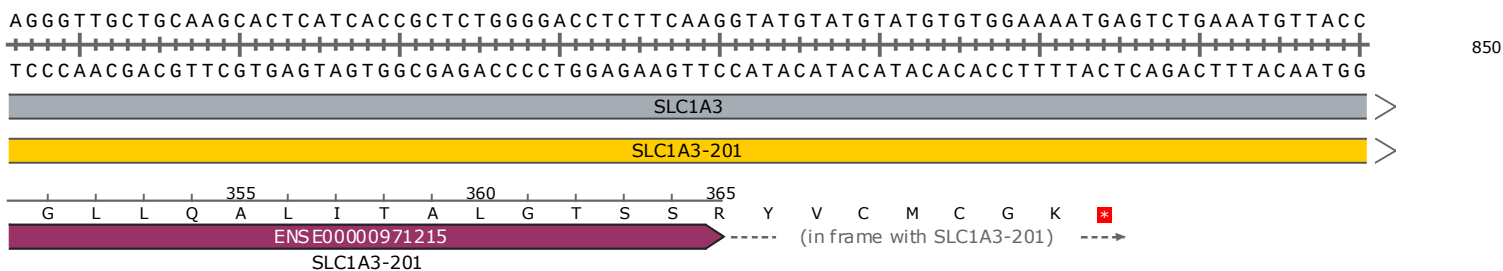
gRNA Protospacer

CTCCCCAGGTATGCCCGCGT





GTAAGTGCCTCAGTAGCAGA
 Sanger Sequencing Primer



Feature	Location	Size	Start	End	Type
SLC1A3-AS1	1 .37,992	37,992 bp	█ ←		gene
/note = gene ENSG00000250155 lncRNA					
SLC1A3-AS1-202	1 .37,961	37,961 bp	█ ←		prim_transcript
/note = primary transcript ENST00000510740 lncRNA					
✓ SLC1A3	1 .. 1122	1122 bp	█ →		gene
/note = gene ENSG00000079215 Protein coding					
✓ SLC1A3-201	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000265113					
SLC1A3-202	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000381918					
SLC1A3-215	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000612708					
SLC1A3-216	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000613445					
SLC1A3-217	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000624112 Retained intron					
SLC1A3-220	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000679487 Nonsense mediated decay					
SLC1A3-221	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000679784 Nonsense mediated decay					
SLC1A3-223	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000679958					
SLC1A3-224	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000679983					
SLC1A3-225	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000679992					
SLC1A3-227	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680048 Nonsense mediated decay					
SLC1A3-228	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680064 Retained intron					
SLC1A3-229	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680125					
SLC1A3-232	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680232					
SLC1A3-233	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680318					
SLC1A3-237	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680655 Nonsense mediated decay					
SLC1A3-239	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680835 Nonsense mediated decay					
SLC1A3-240	1 .. 1122	1122 bp	█ →		prim_transcript
/note = primary transcript ENST00000680876 Retained intron					

Feature	Location	Size	±	Type
SLC1A3-241	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000680878 Retained intron				
SLC1A3-242	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000680890				
SLC1A3-246	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681440				
SLC1A3-247	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681480 Nonsense mediated decay				
SLC1A3-249	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681633 Retained intron				
SLC1A3-256	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681814 Retained intron				
SLC1A3-259	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681909				
SLC1A3-260	1 .. 1122	1122 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681926				
SLC1A3-251	1 .. 810	810 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681701 Nonsense mediated decay				
SLC1A3-258	1 .. 810	810 bp	☐ →	prim_transcript
/note = primary transcript ENST00000681854				
SLC1A3-232	300 .. 810	511 bp	■ →	CDS
▶ 2 segments = 375 bp				
/codon_start = 1				
/note = coding sequence ENSP00000506207				
/translation = SKRKTLCPRAILSEGKARFCKNQGKFIFTKEKKEVHSFCKKRSPQFL, YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGG LLQALITALGTSS 125 amino acids = 13.7 kDa				
SLC1A3-258	530 .. 810	281 bp	■ →	CDS
▶ 2 segments = 153 bp				
/codon_start = 1				
/note = coding sequence ENSP00000504899				
/translation = LVETRLQPCWCCFSP, VIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 51 amino acids = 5.6 kDa				
✓ Donor Sequence SNV -> REV	551 .. 650	100 bp	■	misc_feature
✓ gRNA Protospacer Sequence	569 .. 588	20 bp	■	misc_feature
SLC1A3-222	577 .. 1122	546 bp	☐ →	prim_transcript
/note = primary transcript ENST00000679852				
SLC1A3-234	577 .. 1122	546 bp	☐ →	prim_transcript
/note = primary transcript ENST00000680369				
SLC1A3-218	577 .. 1080	504 bp	☐ →	prim_transcript
/note = primary transcript ENST00000679384 protein_coding_CDS_not_defined				
✓ SLC1A3-201	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000265113				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				

Feature	Location	Size	±	Type
SLC1A3-202	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000371343				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-215	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000483657				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-216	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000477672				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-222	577 .. 810	234 bp	■ →	CDS
/note = coding sequence ENSP00000506649				
/translation = VCPRGYSLPDCWEDCGDGRHGCDWGAACHVHRDCHCWLTHSRSHRLATPLLLGNTEKPLGFYWRVAASTHHRSGDLFK 78 amino acids = 8.9 kDa				
SLC1A3-224	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000505238				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-225	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000506585				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-229	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000506424				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-233	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000505057				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-234	577 .. 810	234 bp	■ →	CDS
/note = coding sequence ENSP00000505836				
/translation = VCPRGYSLPDCWEDCGDGRHGCDWGAACHVHRDCHCWLTHSRSHRLATPLLLGNTEKPLGFYWRVAASTHHRSGDLFK 78 amino acids = 8.9 kDa				
SLC1A3-259	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000506599				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SLC1A3-260	577 .. 810	234 bp	■ →	CDS
/codon_start = 1				
/note = coding sequence ENSP00000505850				
/translation = YAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTIVIVGLLIHAVIVLPLLYFLVTRKNPWVFIGGLLQALITALGTSS 78 amino acids = 8.2 kDa				
SNV	585 .. 585	1 bp	■	misc_feature
/note = SNV = G REV = C				
PAM	589 .. 591	3 bp	■	misc_feature

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = CTCTTGCTTTAACTTGGGAATCAGG 44% GC / 7663.0 Da	25-mer	73 .. 97	58°C	Aug 18, 2023
✓ Donor Template SNV -> REV /sequence = CCCCAATCACACCCATGTCTTCCATCTCCACAATCTTCCCAGCAATCAGGAAGAGAATACCCACGGGGGCATACCTGGGGAGAAGCAACACCAGCACGGT 55% GC / 30,602.8 Da	100-mer	551 .. 650	80°C	Aug 18, 2023
✓ gRNA Protospacer /sequence = CTCCCCAGGTATGCCCGCGT 70% GC / 6029.9 Da	20-mer	569 .. 588	61°C	Aug 18, 2023
✓ Sanger Sequencing Primer /sequence = AGACGATGACTGCGTGAATG 50% GC / 6206.1 Da	20-mer	694 .. 713	57°C	Aug 18, 2023
✓ PCR Reverse /sequence = CAAAAGATATGTAGCCAGGCATTTTC 40% GC / 7674.1 Da	25-mer	972 .. 996	56°C	Aug 18, 2023