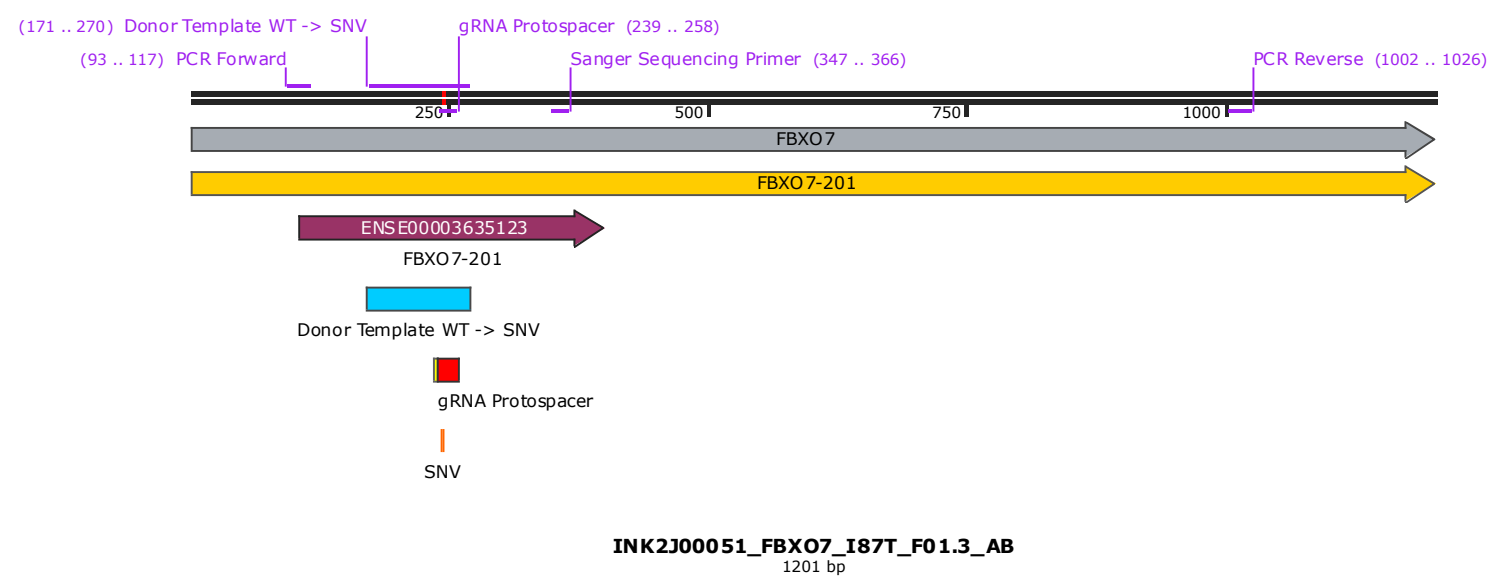
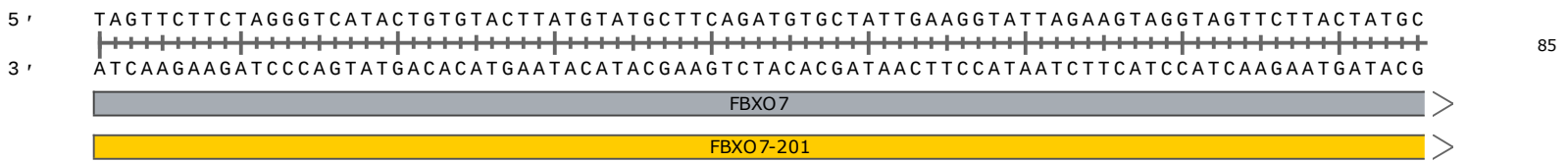
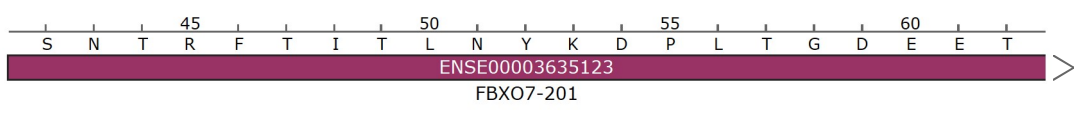
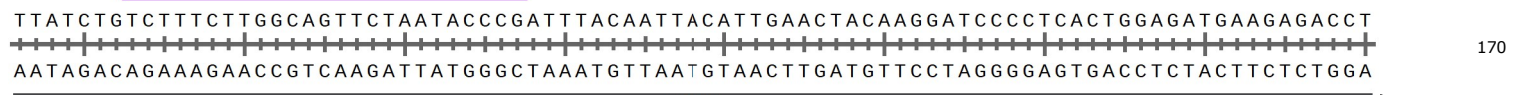


F-box protein 7 [Source:HGNC Symbol;Acc:HGNC:13586]

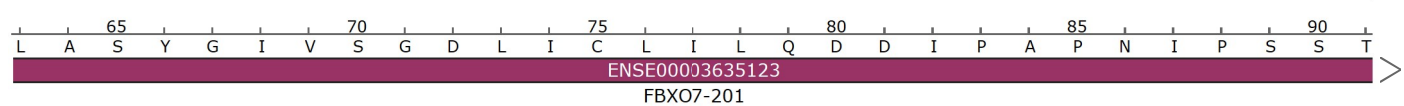
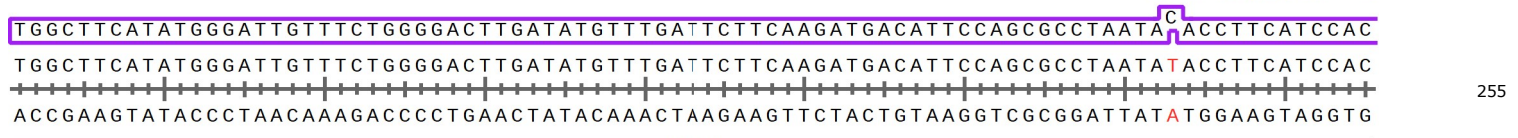




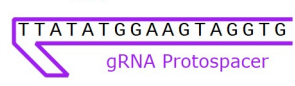
PCR Forward  
 TCTTTCTTGGCAGTTCTAATACCCG



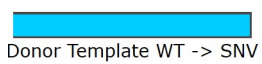
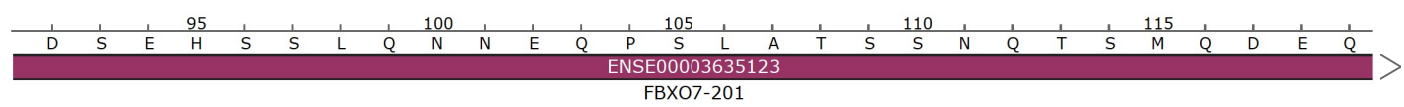
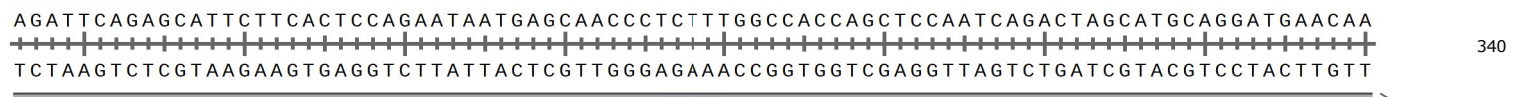
Donor Template WT -> SNV



SNV



Donor Template WT -> SNV  
 AGATTCAGAGCATT



CCAAGTGATTCATTCCAAGGACAGGCAGCCAGTCTGGTGTGGGAATGACGACAGTATGGTGGGTATTAACACCAATATATCA  
 GGTTCACTAAGTAAGGTTCTGTCCGTCGGGTCAGACCACAAACCTTACTGCTGTCATACCACCCATAATTTGTGGTTATATAGT

425

FBXO7  
 FBXO7-201

120                    125                    130                    135  
 P   S   D   S   F   Q   G   Q   A   A   Q   S   G   V   W   N   D   D   S   M   V   G   I   K   H   Q   Y   I  
 ----- (in frame with FBXO7-201) -----

ENS E00003635123  
 FBXO7-201

**CTAAGTAAGGTTCTGTCCG**  
 Sanger Sequencing Primer

AATAGAGTAGGTGATAAGTCATATTGAACACCTCAGTTGAATTCTGTTCCAGTCAGGATAATTATCATCGATAGATTGCACATT  
 TTATCTCATCCACTATTCAGTATAACTTGTGGAGTCAACTTAAGACAAGGTCAGTCCTATTAATAGTAGCTATCTAACGTGTAAG

510

FBXO7  
 FBXO7-201

K \*  
 ----->

TATATATATTTTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGCGCAATCTCTGCT  
 ATATATATAAAAAAGAAAAAATACTCTGTCTCAGAGTGAGACAGTGGTCCGACCTCACGTCCCGGTTAGAGACGA

595

FBXO7  
 FBXO7-201

CACTGCAACCTCTGCCTCCCAGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTAGAGGTGCACACCACCACGC  
 GTGACGTTGGAGACGGAGGGTCAAGTTCGTAAGAGGACGGAGTCGGAGGGCTCATCGACCCTGATCTCCACGTGTGGTGGTGGC

680

FBXO7  
 FBXO7-201

CCAGCTAATTTTTGTATTTTAGTAGAGACGGGTTTTCAGCATGTTGGTCCAGGATGGTCTCGATCTTTGACCTCGTGATCTGCC  
 GGTTCGATTAACAAACATAAAAATCATCTCTGCCCAAAGTCTGTACAACCAGTCTACCAGAGCTAGAGAACTGGAGCACTAGACGG

765

FBXO7  
 FBXO7-201

CTCCTCGGCTCCCAAAGTGTGGGATTACAGGCATGAGCCACTGCGCCTGGCTGCAGATTATATTTTATAGAATATATTTTT  
 GAGGAGCCGGAGGGTTTACGACCCTAATGTCCGTA CTGCTGCTGTTTGTTCACATACTCTCCTTCA

850

FBXO7  
 FBXO7-201

TAACTGCCAAATGCCTGTACCAATATGGGGCTGGCATCCCAAAGTACCTAGTGTCTGTCTGTTTGTTCACATACTCTCCTTCA  
 AATTGACGGTTTACGGACATGGTTATACCCGACCGTAGGGTTTCATGGATCACAGACAGACAAAACAAGTGTATGAGAGGAAGT

935

FBXO7  
 FBXO7-201

GATCAGTTATTCCTTGACTTCTATTATTGTTTCTAAGCTCATGATTCCTAGCCTTGCTTCTCTGATCTGGTCCGCTCATTAAGGC  
 CTAGTCAATAAGGAAGTGAAGATAATAACAAGGATTCGAGTACTAAGGATCGGAACGAAGAGACTAGACCAGGCGAGTAATTCCG

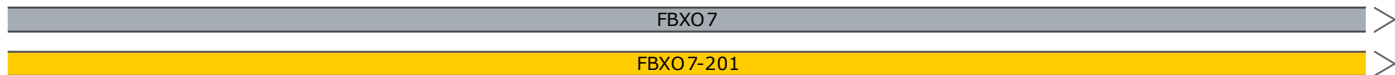
1020

FBXO7  
 FBXO7-201

**GACCAGGCGAGTAATTCCG**  
 PCR Reverse

TATAGATGTGGTCTAATTATTTCCAGATGACTTGCAGGATATTTATACCTGGATTTTAAATTGTCATTGCAGACTTTAGATGTTG  
 ATATCTACACCAGATTAATAAAGGTCTACTGAACGTCCTATAAATATGGACCTAAAATTTAACAGTAACGCTCTGAAATCTACAAC

1105

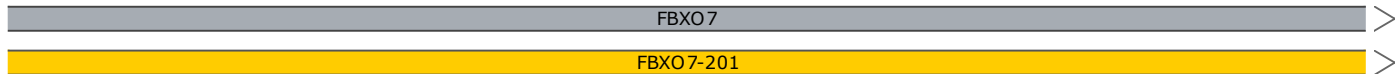


ATATCT

PCR Reverse

AACATAAATTTGGAAATATGTGTGCTCAGTTCCCTTCTTTGTCAGTGGCACTGCTGGTTTTCTGTGATTTTTGACTCCTTAAATC  
 TTGTATTTAAACCTTTATACACACGAGTCAAGGGAAGAAACAGTCACCGTGACGACCAAAGACACTAAAACTGAGGAATTTAG

1190



TAGCCCATTA

3'

ATCGGGTAATT

5'

1201



Feature	Location	Size	Start	End	Type
✓ <b>FBXO7</b>	1 .. 1201	1201 bp	■	➔	gene
/note = gene <a href="#">ENSG00000100225</a> Protein coding					
✓ <b>FBXO7-201</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000266087</a>					
<b>FBXO7-202</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000397426</a>					
<b>FBXO7-203</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000420700</a> Nonsense mediated decay					
<b>FBXO7-204</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000425028</a> Nonsense mediated decay					
<b>FBXO7-205</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000444207</a>					
<b>FBXO7-206</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000452138</a>					
<b>FBXO7-209</b>	1 .. 1201	1201 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000492535</a> Retained intron					
<b>FBXO7-207</b>	1 .. 356	356 bp	■	➔	prim_transcript
/note = primary transcript <a href="#">ENST00000465418</a> protein_coding_CDS_not_defined					
✓ <b>FBXO7-201</b>	106 .. 400	295 bp	■	➔	CDS
/codon_start = 1					
/note = coding sequence <a href="#">ENSP00000266087</a>					
/translation = SNTRFTITLNYKDPLTGDEETLASYGIVSGDLICLILQDDIPAPNIPSSSTDEHSSLQNNEQPSLATSSNQTSMQDEQPSDSFQGQAAQSGVWDDSM 98 amino acids = 10.6 kDa					
✓ <b>Donor Template WT -&gt; SNV</b>	171 .. 270	100 bp	■		misc_feature
✓ <b>PAM</b>	236 .. 238	3 bp	■		misc_feature
✓ <b>gRNA Protospacer</b>	239 .. 258	20 bp	■		misc_feature
✓ <b>SNV</b>	243 .. 243	1 bp	■		misc_feature
/note = WT = T SNV = C					
<b>FBXO7-206</b>	258 .. 400	143 bp	■	➔	CDS
/codon_start = 1					
/note = coding sequence <a href="#">ENSP00000388547</a>					
/translation = SEHSSLQNNEQPSLATSSNQTSMQDEQPSDSFQGQAAQSGVWDDSM 47 amino acids = 5.1 kDa					
<b>FBXO7-202</b>	326 .. 400	75 bp	■	➔	CDS
/note = coding sequence <a href="#">ENSP00000380571</a>					
/translation = MQDEQPSDSFQGQAAQSGVWDDSM 25 amino acids = 2.8 kDa					
<b>FBXO7-205</b>	326 .. 400	75 bp	■	➔	CDS
/note = coding sequence <a href="#">ENSP00000404388</a>					
/translation = MQDEQPSDSFQGQAAQSGVWDDSM 25 amino acids = 2.8 kDa					

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b>	25-mer	93 .. 117	59°C	Mar 11, 2024
/sequence = TCTTTCTTGGCAGTTCTAATACCCG 44% GC / 7574.0 Da				
✓ <b>Donor Template WT -&gt; SNV</b>	100-mer	171 .. 270	73°C	Mar 11, 2024
/sequence = TGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACATTCCAGCGCCTAATACACCTTCATCCACAGATTCAGAGCATTC 42% GC / 30,744.0 Da				
✓ <b>gRNA Protospacer</b>	20-mer	239 .. 258	50°C	Mar 11, 2024
/sequence = TCTGTGGATGAAGGTATATT 35% GC / 6202.1 Da				
✓ <b>Sanger Sequencing Primer</b>	20-mer	347 .. 366	56°C	Mar 11, 2024
/sequence = GCCTGTCCTTGAATGAATC 50% GC / 6108.0 Da				
✓ <b>PCR Reverse</b>	25-mer	1002 .. 1026	60°C	Mar 11, 2024
/sequence = TCTATAGCCTTAATGAGCGGACCAG 48% GC / 7666.1 Da				