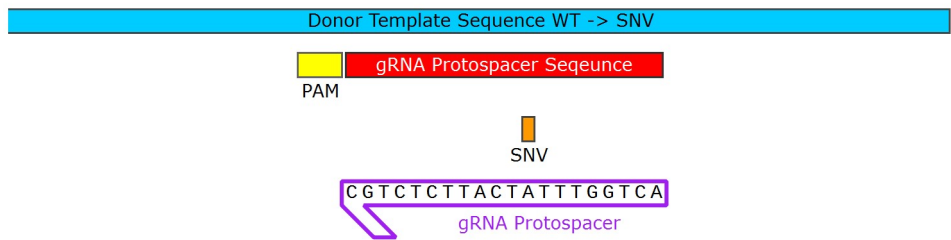
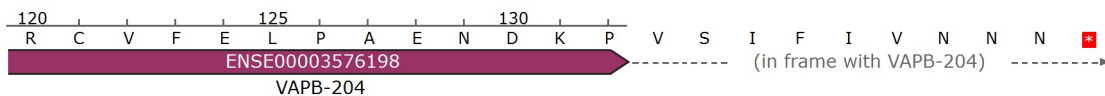
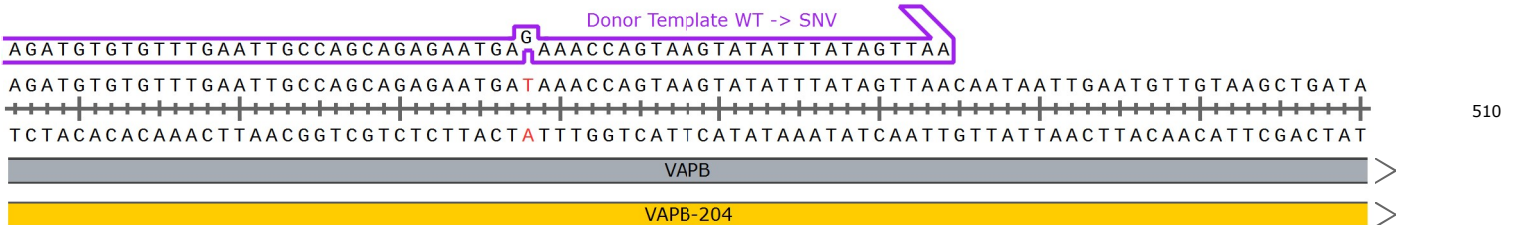
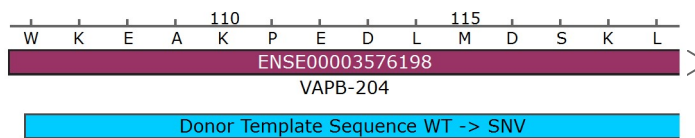
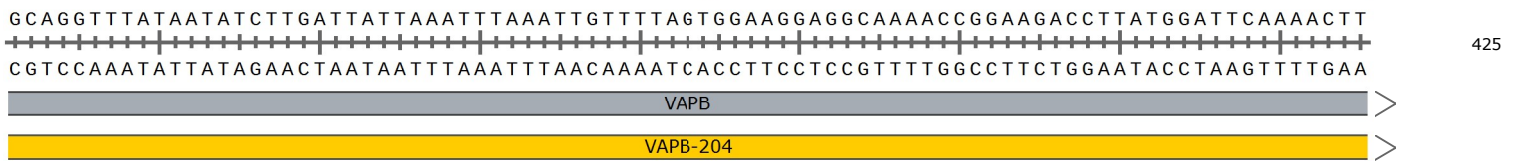
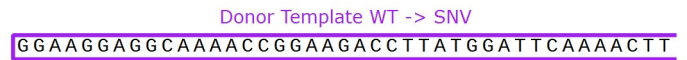
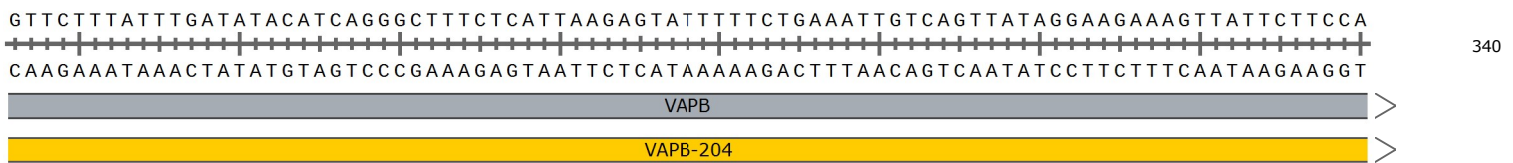
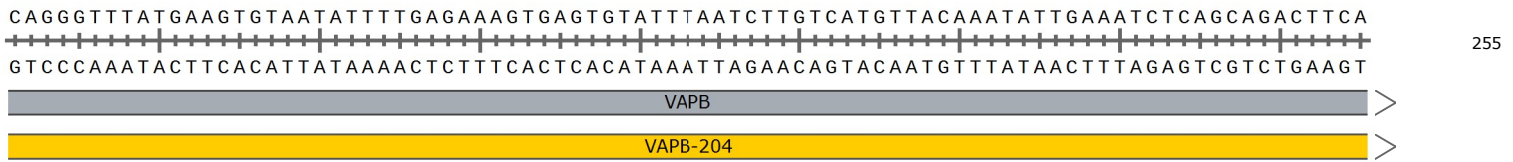
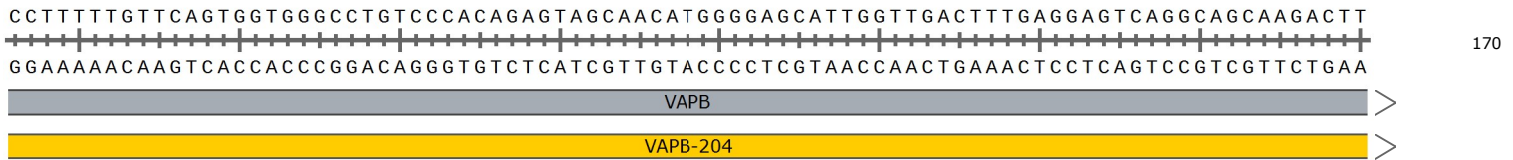
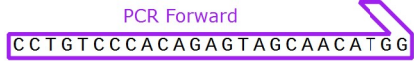
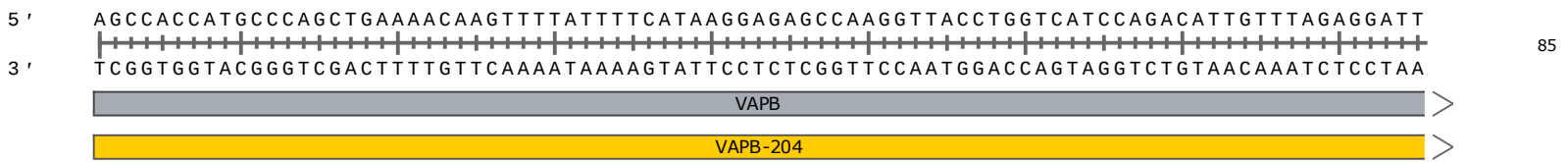


INK2J00079_VAPB_D130E_C02.2_AB
1000 bp



CTTATTTGCATACCATTTCTGCAAAACCAAGATTTAAGTTGGCAAATTATTTTCCTTTATCTGATGTCTGAAGAAAAAATAA 595
 GAATAAACGTATGGTAAAGGACGTTTTGGTTCTAAATTC AACCGTTTAATAAAAGGAAATAGACTACAGACTTCTTTTTTTTATT

VAPB >
 VAPB-204 >

GGAAATAGACTACAGACTTC
 Sanger Sequencing Primer

GCTGAAGTCAGCAAATAAGTGGGCCTTTATGAAATCAGCCTTTGAAAACTCACGGAAAGACAACCTGATTGACAGTGTTCCTT 680
 CGACTTCAGTCGTTTATTCACCCGGAAATACTTTAGTCGGAAACTTTTTGAGTGCCTTTCTGTTGACTA ACTGTCCAAAAGGGGA

VAPB >
 VAPB-204 >

TGAAAAGTGCAGCCCGATGGCCATTGAGATGTCATAAATCCTGAAGAGCTTCTGTGGCCTGGCAAAGGTATAGGTTGCTGTTAAA 765
 ACTTTTCACGTCGGGCTACCGGTA ACTCTACAGTATTTAGGACTTCTCGAAGACACCGGACCGTTTCCATATCCAACGACAATTT

VAPB >
 VAPB-204 >

CAGTGGGTGAGAGTGAAAGAGGGAACAATTTGCCCTTTATCATGGTGGTTGATGGACGTGTGGGAAGCTTTCAAGTTCTTGT 850
 GTCACCCACTCTCACTTTCTCCCTTGTTAAACGGGAAATAGTACCACCAACTACCTGCACACCCTTCGAAAGTTCAAGAGAACAA

VAPB >
 VAPB-204 >

CCTGCACACCCTTCGAAAGTTCAAG
 PCR Reverse

TTACAAAGTGCCTGTCAGCCTCCCTACCCCTTTTACCCTATCTACCTCTTCAATCAAAGGCTGCTTTTAGATGAGGATTTCTCA 935
 AATGTTTCACGGGACAGTCGGAGGGATGGGGAAAATGGGATAGATGGAGAAGTTAGTTTCCGACGAAAATCTACTCCTAAAGAGT

VAPB >
 VAPB-204 >

GCCTCAACACTGTTGATATTTGGGGCAAATCCTTGGTGGTGGTGGAGGTTGCCCTGTGTA CTGTA 3'
 CGGAGTTGTGACAACTATAAACCCCGTTTAGGAACCACCACCACCTCCAACGGGACACATGACAT 5' 1000

VAPB >
 VAPB-204 >

Feature	Location	Size	Start	End	Type
✓ VAPB	1 .. 1000	1000 bp	■	→	gene
/note = gene ENSG00000124164 Protein coding					
VAPB-201	1 .. 1000	1000 bp	■	→	prim_transcript
/note = primary transcript ENST00000265619 protein_coding_CDS_not_defined					
VAPB-202	1 .. 1000	1000 bp	■	→	prim_transcript
/note = primary transcript ENST00000395802					
VAPB-203	1 .. 1000	1000 bp	■	→	prim_transcript
/note = primary transcript ENST00000463370 protein_coding_CDS_not_defined					
✓ VAPB-204	1 .. 1000	1000 bp	■	→	prim_transcript
/note = primary transcript ENST00000475243					
VAPB-206	1 .. 1000	1000 bp	■	→	prim_transcript
/note = primary transcript ENST00000520497 Nonsense mediated decay					
✓ VAPB-204	384 .. 464	81 bp	■	→	CDS
/note = coding sequence ENSP00000417175					
/translation = WKEAKPEDLMDSKLRVCFELPAENDKP 27 amino acids = 3.2 kDa					
✓ Donor Template Sequence WT -> SNV	385 .. 484	100 bp	■		misc_feature
VAPB-205	416 .. 1000	585 bp	■	→	prim_transcript
/note = primary transcript ENST00000476395 Retained intron					
✓ PAM	444 .. 446	3 bp	■		misc_feature
✓ gRNA Protospacer Sequence	447 .. 466	20 bp	■		misc_feature
✓ SNV	458 .. 458	1 bp	■		misc_feature
/note = WT = T SNV = G					

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = CCTGTCCCACAGAGTAGCAACATGG 56% GC / 7636.0 Da	25-mer	106 .. 130	62°C	Aug 15, 2023
✓ Donor Template WT -> SNV /sequence = GGAAGGAGGCAAAACCGAAGACCTTATGGATTCAAACCTTAGATGTGTGTTTGAATTGCCAGCAGAGAATGAGAAACCAGTAAGTATATTTATAGTTAA 37% GC / 31,145.4 Da	100-mer	385 .. 484	70°C	Aug 15, 2023
✓ gRNA Protospacer /sequence = ACTGGTTTATCATTCTCTGC 40% GC / 6049.0 Da	20-mer	447 .. 466	52°C	Aug 15, 2023
✓ Sanger Sequencing Primer /sequence = CTTCAGACATCAGATAAAGG 40% GC / 6134.1 Da	20-mer	565 .. 584	51°C	Aug 15, 2023
✓ PCR Reverse /sequence = GAACTTGAAAGCTTCCCACACGTCC 52% GC / 7571.0 Da	25-mer	819 .. 843	61°C	Aug 15, 2023