

ADAM10-201

Donor Template WT -> SNV

Protospacer Sequence

SNV

INK2J00040_ADAM10_R181G_A02_BB
8629 bp

5'
3'

GAATTTTAATTTAAGCTAGTAGCATATACAGCATGTACATTCTCTCTCCTCCAAGCTGATAATACAACCTTAGGTGTAATCTCCTA
CTTAAAAATTAATTCGATCATCGTATATGTCGTACATGTAAGAGAGAGGGAGGTTTCGACTATTATGTTGAATCCACATTAGAGGAT

85

ADAM10

ADAM10-201

GAATTTTTCTGACCTCACAGTTCTGGGTATCCTCTCTTTACTGCTGTTTATGTGTTGATAAGTCTTCCCTATCTTTTGAATCC
CTTAAAAAAGGACTGGAGTGTCAAGACCCATAGGAGAGAAATGACGACAAATACACAACCTATTTCAGAAGGGATAGAAAACTTAGG

170

ADAM10

ADAM10-201

AGTGGTTTACTGGTCATTGATCATATGACTGACCTTTGAGAGGCATGGAAGGAAACCAGCTGTTGACTGGATGAGTAAATTAAT
TCACCAAATGACCAGTAACTAGTATACTGACTGGAACTCTCCGTACCTTCTTTGGTCGACAACCTGACCTACTCATTTAATTTA

255

ADAM10

ADAM10-201

TCAACCAGTGTTTAATAAACTGTGGATGATTGCCGGGAGACCTTAACACTTGGGAAGTTGGTACTTAAATGCCATGCTTGTTTAC
AGTTGGTCACAAATTATTTGACACCTACTAACGGCCCTCTGGAATTGTGAACCTTCAACCATGAATTTACGGTACGAACAAATG

340

ADAM10

ADAM10-201

ATGTCAGACACCTCAGCTAGACTGACAGCTCTTGAGAGTGCATGTTCTATGTCATTTATTTTTGTATCCCTTTGTTTGGTATATA
TACAGTCTGTGGAGTCGATCTGACTGTGAGAACCTCTCACGTACAAGATACAGTAAATAAAAAATAGGGAAACAAACCATATAT

425

ADAM10

ADAM10-201

ATAATTTTTCTTAATTGTTTGCTTAATAAATTAATGCAGTTAAAAATAACATTGACATATGATTAGGAGATTTATGTGTACACAG
TATTA AAAAGAATTAACAAACGAATTATTTAATTACGTCAATTTTTATTGTAACCTGTATACTAATCCTCTAAATACACATGTGTC

510

ADAM10

ADAM10-201

CTGTTAATTTTGAATGTTCTGTATGTTATAGTCAATCTGTAAAGCAGTTAGGAATTTAGAACACACTTTGCCGTAGAAACAATTT
GACAATTA AAACCTTACAAGACATACAATATCAGTTAGACATTTTCGTCAATCCTTAAATCTTGTGTGAAACGGCATCTTTGTTAAA

595

ADAM10

ADAM10-201

AAAGTGTTAGACAATTCCTCTTTATTGTAGGTGGAATGAAGGCTAAAAGGAGGTTATGGGAGCCAGCAGTTTATAGGTCTTTGGT
TTTCACAATCTGTTAAGGAGAAATAACATCCACCTTACTTCCGATTTTCTCCAATACCCTCGGTCGTCAAATATCCAGAAACCA

680

ADAM10

ADAM10-201

TAATGGATGACCTTTGAAAAGAGGCATAGAAACCACATACTGGCTGAAAAATTAATTCACAAGTATTTATTGGTTTGTGAATA
ATTACCTACTGGAAACTTTTCTCCGTATCTTTGGTGTATGACCGACTTTTAAATTTAAGTTGTTTCATAAATAACCAAACACTTAT

765

ADAM10

ADAM10-201

TACAGGAAAGAGAATTTTAAAATTTCCCTGAAGATTA AAAACCTTCAGGGGAATTTTCAGTAATAGAGAGTCAAAATGTGGTAA
ATGTCCTTTCTCTTAAAATTTTAAAGGGGACTTCTAATTTTTGGAAGTCCCCTTAAAAGTCATTATCTCTCAGTTTTACACCATT

850

ADAM10

ADAM10-201

ATGCTATAACAAAAATGTTATCAAAGCCCTGGGGTAGTGCATACTACCTCAGTGAGGGGAGCTTTAGGGGAGATTTAGGGAAGACTTC
TACGATATTGTTTTTACAATAGTTTTCGGGACCCCATCACGTATGATGGAGTCACTCCCTCGAAATCCCTCTAAATCCTTCTGAAG

935

ADAM10

ADAM10-201

CCTGGGGAGGTGGAATTTGACTTGAACCTTGAAGATAAGGGGTAGACTTTTTGATTGCTAGAGGAGAGAATCTGTGATCACAGGAG
GGACCCCTCCACCTTAAACTGAACTTGGAACTTCTATTCCCATCTGAAAATAACGATCTCCTCTCTTAGACACTAGTGTCTCTC

1020

ADAM10

ADAM10-201

AAGCCTCAGCCCTATTACTCTGGCTGCAACAATATTTCTTTTCAGTTGTACAGCTTGGGAACTAAAGAAAAGGAAAAGAGATTCG
TTCGGAGTCGGGATAATGAGACCGACGTTGTTATAAAGAAAAGTCAACAGTGTGGAACCCCTTGATTTCTTTCTTTCTCTAAGC

1105

ADAM10

ADAM10-201

CATGTTCTTTGGCCTAGTCACCCATTACCCCTGTGTATAGCTGTATAGTCCCAAGTCAAATACACGTAAATAATGGTCACTTAA
GTACAAGAAACCGGATCAGTGGGTAAGTGGGGACACATATCGACATATCAGGGTTCAGTTTATGTGCATTTATTACCAGTGAATT

1190

ADAM10

ADAM10-201

AGTTAGTATGTTACAAGTTTTTCATTCCAAGTGTGAGTTGTAAGTTTTACAGGTTTAACTGATTAATTTGTTAATAAACATTT
TCAATCATACAATGTTCAAAGTAAGGTTACAGTCAACATTCAAATGTCCAAATTGTTGACTAATTAACAATTATTTGTAAT

1275

ADAM10

ADAM10-201

TTTGAGTGCCTAATCTGTACAAGACACTTTTAGAACTATCCATACAATAATGAATAGGGCAAAGGTTCTGCCTTAAACACTTTA
AAACTCACGGATTAGACATGTTCTGTGAAAATCTTTGATAGGTATGTTATTACTTATCCCGTTTCCAAGACGGAATTTGTGAAAT

1360

ADAM10

ADAM10-201

GAGTCTAGTAATTCTGTTTGTGATTGATCAGAATAATAAAGCAACATTTCTCTGGTTGACCTGACTCCCATTATCCTTTGGCTGC
CTCAGATCATTAAAGACAAACAGTAACTAGTCTTATTATTTTCGTTGTAAGAGACCAACTGGACTGAGGGTAATAGGAAACCGACG

1445

ADAM10

ADAM10-201

CAATAGTAACCCTTTCTTTCTAAACCCTGAGGAGGACATGTCTGGCCCTCTTCTCATCTCTGTTTCCAGAGAGATC
GTTATCATTGGGAAAAGAAAGATTTTGGGTACCCACTCTTCCCTGTACAGACCGGGAGAAGGAGTAGAGACAAAGGTCTCTCTAG

1530

ADAM10

ADAM10-201

AGTGTGTGAGTGCTTGTGAAAAGTGGGGTCATTTTCAACTTCTCCTCTTTCTAGGGACAATCACTCTGTGCTTTTCTTATGCC
TCACAACACTCACGAACACCTTTACACCCAGTAAAAGTTGAAGGAGGAGAAAGATCCCTGTTAGTGAGACACGAAAAGAATACGG

1615

ADAM10

ADAM10-201

CACTTACCCTCCCAAAACAGAAATTAGACATGGGGATTGGGAAGACATGAGAATTGGTACCCGGGAGAAACGGCCTCCCATCCAC
GTGAATGGGAGGGTTTTGTCTTTAATCTGTACCCCTAACCTTCTGTACTCTTAACCATGGGCCCTCTTTGCCGGAGGGTAGGTG

1700

ADAM10

ADAM10-201

TGGAATTAGGAGGAAGAACATTTGGAGTTCTTTCTGTCTCCAAACTTTTCATTTCTTCTCAAAAAGAAAAAAAAAAAAAAAAAGCCTATC
ACCTTAATCCTCCTTCTTGTAAACCTCAAGAAAGGACAGAGGTTTGAAGAAGTAAAGAAGAGTTTTCTTTTTTTTTTTTTTCGGATAG

1785

ADAM10

ADAM10-201

CTTTCTTCTACTCTCCATCAGTGAATCCTTGTGATGTAGGCAACTTTGGGAATAAATGACGATTTTCATGGACAAGGCCCCAC
GAAAGAAGATGAGAGGTAGTCACTTAGGAACAACCTACATCCGTTGAAACCTTATTTACTGCTAAAAGTACCTGTTCCGGGGGTG

1870

ADAM10

ADAM10-201

CTCATGATACTCTGGATACTAACAAAAATAATTTTTATGCATAATAATATTATTCTATAGAAGTCATTCTATTTTTAAATTCAATT
GAGTACTATGAGACCTATGATTGTTTTTATTAATAAATACGTATTATTATAATAAGATATCTTCAGTAAGATAAAAATTTAAGTTAA

1955

ADAM10

ADAM10-201

AATGCAGATTTTTAAAAATTGGCTTTGGTGATTCATGGCATATTATTGGAGGGATTACCATCCAGTTTTGACTATTAGAGGGTCA
TTACGTCTAAAAATTTTTAACCGAAACCACTAAGTACCGTATAATAACCTCCCTAATGGTAGGTCAAAACCTGATAATCTCCAGT

2040

ADAM10

ADAM10-201

TTCATAGCCAAGGCCTTGGATGTTTGCAGTTAAGTTTCTGAGCTGCTAGTCACATAAGGCTGAGGGGTACCCTGTTGGAGGTAG
AGAGTATCGGTTCCGGAACCTACAAACGTCAATTCAAAGACTCGACGATCAGTGTATTCCGACTCCCCATGGGACAACCTCCATC

2125

ADAM10

ADAM10-201

TGAGGGTGCAAAAAGTGAGTATTTTTATGCCTAGTTCTGTTGACAGAGAATCTGAACTGTAAATATTCCTCCTTGAAAGAGTGGAT
ACTCCCACGTTTTTCACTCATAAAAATACGGATCAAGACAACCTGTCTCTTAGACTTGACATTTATAAGGAGGAACCTTTCTCACCTA

2210

ADAM10

ADAM10-201

GATTGAGAGTTAACTAGAGCTATTTCTGCTTGAGTTAGAGTCACAATATATGTAATTTATATTTGTGTCTTGAACAACAAAA
CTAACTCTCAATTGATCTCGATAAAGGACGAACCTCAATCTCAGTGTTATATACATGATAAATATAAACACAGAACTTGTTGTTTT

2295

ADAM10

ADAM10-201

CAAAAACAAGAGGCTGGCAGAGGAACTGGAAGAAAGGCAATAGATCTAAAGCTGATCTTTGTTTTAAATAGGCCGAATATTCTAC
GTTTTCGTTCTCCGACCGTCTCCTTGACCTTCTTTCCGTTATCTAGATTTGACTAGAAACAAAATTTATCCGGCTTATAAGATG

2380

ADAM10

ADAM10-201

ACCCATGACTCATTGTTTGTGAAAGAATATGCTGTTTGGCCTTTTCAGGGGAACTACAGTGCATCCTATGATTTAGCATCTCAAT
TGGGTACTGAGTAACAAACACTTTTCTTATACGACAAAACCGGAAAAGTCCCTTGATGTCACGTAGGATACTAAATCGTAGAGTTA

2465

ADAM10

ADAM10-201

GAGGGCTTATTCATTAGTTGAACAAGGCTTTTTCTAGAAATGAGGATTATATTGTTAGTAATTTTAGAGGGAAAATGTCATTGT
CTCCCGAATAAGTAATCAACTTGTTTCCGAAAAAGATCTTTACTCCTAATATAACAATCATTAAAATCTCCCTTTTACAGTAACA

2550

ADAM10

ADAM10-201

CCATTTTATAGTTAATGTGGTGTCCAAGGAAAAACAGCATCTTTTAGAAATTTTGAAAGTATATGGGAAAAATTGCATGCTTGAC
GGTAAAAATATCAATTACACCACAGGTTCTTTTGTGCTAGAAAACTTTTAAACTTTTCATATACCCTTTTTAACGTACGAACTG

2635

ADAM10

ADAM10-201

CCTTTCTATTGGGAGAGTTTTGTGCTGACAGAATTTGAAGCATATATAAAATACTGTTTTGTTGCTTTGGAAATATTTGGAAATTT
GGAAAGATAACCCTCTCAAAACACGACTGTCTTAAACTTCGTATATATTTATGACAAAAACAACGAAACCTTTATAAACCTTTAAA

2720

ADAM10

ADAM10-201

TTTTTACCCTAAGTTTCAAGCTTTCAAAAGGAATTTATATTTTTAATTCGTGATATATAAAATTCAGTTTGCGAAGAAATAAAAC
AAAAATGGGATTCAAAGTTCGAAAGTTTTCTTAAATATAAAAATTAAGCACTATATATTTAAGTCAAACGCTTCTTTATTTTG

2805

ADAM10

ADAM10-201

ACTAATTCTTTTAAAAATCCCAATGTTTTAAGTAACAATGTACTAAATAAATGTTTTTTTTTTGTTCCCTATACATTAATAACCAA
TGATTAAGAAAAATTTAGGGTTACAAAATTCATTGTTACATGATTTATTTACAAAAAAAAACAAGGGGATATGTAATTATTGGTT

2890

ADAM10

ADAM10-201

TGGTAAGTGAGTTTTAGGGTTTTGACGAAAGATTTTAAAGGTCACAGAACAGTTGTAATTTTTTCCCATTGATTATTAAGATCA
ACCATTCACTCAAAAATCCCAAAACTGCTTTCTAAAATTTCCAGTGTCTTGTCAACATTA AAAAAGGGGTA ACTAATAATTCTAGT

2975

ADAM10

ADAM10-201

TTTTGCATAGTTTCAGCTTGCATGGTCAGTTTTATGACTGGCACTTACTGGTGTGGCAAAGCAAGGACTGCCTGGTGTTAACTAG
AAAAACGTATCAAAGTCGAACGTACCAGTCAAAAATACTGACCGTGAATGACCACACCGTTTCGTTCTGACGGACCACAATTGATC

3060

ADAM10

ADAM10-201

GTGAATGAAATTGAGAATAGACTCTGGAAATTCAGTTGCTAGCTGGCATTAAAGGAACTGCTTGAGGTTATAGATCATGACTTTTTG
CACTTACTTTAACTCTTATCTGAGACCTTTAAGTCAACGATCGACCGTAATTCCTTGACGAACTCCAATATCTAGTACTGAAAAC

3145

ADAM10

ADAM10-201

AATGAGACTGGAATTACTAGTTTTTTCTTTAGCCTCATTACAGCTTCAGGAGGAGCTTCTCTCTTTTCATAGTTACACTTCTGAAGTA
T TACTCTGACCTTAATGATCAAAAAGAAATCGGAGTAAGTCGAAGTCCTCCTCGAAGAGAGAAAGTATCAATGTGAAGACTTCAT

3230

ADAM10

ADAM10-201

AGTAAGACACCACTGCATTCACCATCAACTCCCTTCAGGGGCGTTGGGGTGGAGCACAAGGGAGTTGATGGTGAATGCAGTGGTG
TCATTCTGTGGTGACGTAAGTGGTAGTTGAGGGGAAGTCCCGCAACCCACCTCGTGTTCCCTCAACTACCACTTACGTCAACCAC

3315

ADAM10

ADAM10-201

TAATTATAATAATAATTGACTGTGGGATTTAAACTGAATAAGGAAGAGAAAGAATATCTGGTGATAGACAATAAGGTGGTAGCAT
ATTAATATTATTAACTGACACCCTAAATTTGACTTATTCCTTCTCTTTCTTATAGACCACTATCTGTTATTCCACCATCGTA

3400

ADAM10

ADAM10-201

TGGTGGATTAAAGGGTCTCACTGATGTTAAAGGGTTGATGGAACCTAGAGGGGAATGTGCTGAAAAGATAAGTGGTGGAAAGAAAAG
ACACACCTAATTTCCAGAGTGACTACAATTTCCCAACTACCTTGGATCTCCCTTACACGACTTTTTCTATTACCACCTTTCTTTTC

3485

ADAM10

ADAM10-201

TAGAATACTAGAAGTTGAGATTATGAAGTGCTTTTCAGTTATCAATAGTGACAAGTTCAGAAGAGTAACTATGGAAATGAGAACT
ATCTTATGATCTTCAACTCTAATACTTCACGAAAGTCAATAGTTATCACTGTTCAAGTCTTCTCATTGATACCTTTACTCTTTGA

3570

ADAM10

ADAM10-201

GAGGTAGGAAAAAATCATTGGAGAAAAGAACTGAGTGTAGTGGAAAGGATCATCGTCATGAATGATGAATGATGAATGAATGA
CTCCATCCTTTTTTAGTAACCTCTTTTCTTGACTCACATCACCTTCTAGTAGCAGTACTTACTACTTACTACTTACTTACT

3655

ADAM10

ADAM10-201

PCR Forward

AATAAGGGCA

TGAATGATGTCATCAGTCATGATGATGAGGTGGTGTGTCAGAGAGACTGACAGTAAGTCAGGATCTAAAAATAAGGAAATAAGGGCA
ACTTACTACAGTAGTCAGTACTACTACTCCACCACAGTCTCTCTGACTGTCATTTCAGTCTTAGATTTTTATTCTTTTATTCCCCT

3740

ADAM10

ADAM10-201

PCR Forward

GTAATGACTTGGGTG

GTAATGACTTGGGTGACAACAAATGCCTGTAATAAGTTGGGGTAGTCAGTGATACAGTCACGTAAGTGTAAAACTGAGCTACTAT
CATTACTGAACCCACTGTTGTTTACGGACATTATTCAACCCCATCAGTCACTATGTCAGTGCATTGACATTTTACTCGATGATA

3825

ADAM10

ADAM10-201

GAGAATAGTCTTAATGGTCCTAAGGGAGAAAGTGGTAGATAGTTGTGTTTTGTGAAATGAGGGGTGGGGAGTATCTTCCCAAGAG
CTCTTATCAGAATTACCAGGATTCCCTCTTTACCACATCTATCAACACAAAACACTTTACTCCCCACCCCTCATAGAAGGGTTCTC

3910

ADAM10

ADAM10-201

TAGGAAGAGTTTTGGGGTTCTTTTTATATTTGCTAGAGTCCTCCTGATGGAGCTCAGGAATACTGCAGAAGGATTCTCTTGACC
ATCCTTCTCAAAACCCCAAGAGAAAATATAAACGATCTCAGGAGGACTACCTCGAGTCCTTATGACGTCTTCTAAGAGAAGTGG

3995

ADAM10

ADAM10-201

CCTGCCAGATGATGGTCCAGAAACATAGATATTCTCTTGGTGACAGCCGAATGCAATATATTGGTGATAGGGTTCAGAATAATGAG
GGACGGTCTACTACCAGGTCTTTGTATCTATAAGAGAACCCTGTGCGCTTACGTTATATAACCACTATCCCAGTCTTATFACTC

4080

ADAM10

ADAM10-201

TGGTTATTGCCCTTTTTAGAAATCACAAATCATCTATATGACAAAAAGCTAAAGACCAGTGGTTTTTTATTGAGGGAGAGCTTAG
ACCAATAACGGGAAAAAATCTTAAGTGTTTAGTAGATATACTGTTTTTTCGATTTCTGGTCAACAAAAATAACTCCCTCTCGAATC

4165

ADAM10

ADAM10-201

GAACCTGCTAGGTTTTAGCATTAAAATGCCTAGCATAATGCCTTTTCCATAGGTGCTTAATAAGCATTATGGTTTTTCATTAGTT
CTTGACGATCCAAAATCGTAATTTTACGGATCGTATTACGGAAAAGGTATCCACGAATTATTTCGTAATAACCAAAAAGTAATCAA

4250

ADAM10

ADAM10-201

AAGACAGTTAAATTTTTACTTGTAAATTCTCATTATAATTGGTTATACCTAAATGTGTGATAGTAATGACGTTTCTTCTTTGTAT
TTCTGTCAATTTAAAAATGAACATTAAGAGTAAATATTAACCAATATGGATTTACACACTATCATTACTGCAAAGAAGAAACATA

4335

ADAM10

ADAM10-201

gRNA Protospacer

ATTCAGTATTTGAAAGAATG

TTTAGACTATCCCATAAATACGGTCCTCAGGGGGGCTGTGCAGATCATTTCAGTATTTGAAAGAATGAGGAAATACCAGATGACT
AAATCTGATAGGGGTATTTATGCCAGGAGTCCCCCGACACGCTAGTAAGTCATAAACTTCTTACTCCTTTATGGTCTACTGA

4420

ADAM10

ADAM10-201

Y P H K Y G P Q G G C A D H S V F E R M R K Y Q M T

ENSE00003661775

ADAM10-201

Donor Template WT -> SNV

Protospacer Sequence

PAM

SNV

TCCCCCGACACGCTAGTAAGTCATAAACTTCTTACTCCTTTATGGTCTACTGA

Donor Template WT -> SNV

GGTGTAGAGGAAGTAACACAGGTAAGGATTTAACACTAGCTTGCATTTAGGAAATGGAAATGAATTTGAGGATGTATATCTACA
CCACATCTCCTTCATTGTGTCCATTCTAAAATTGTGATCGAACGTAATCCTTTACCTTTACTTAAACTCCTACATATAGATGT

4505

ADAM10

ADAM10-201

G V E E V T Q V R I L T L A C I +
ENSE00003661775
ADAM10-201 (in frame with ADAM10-201)

Donor Template WT -> SNV

CCACATCTCCTTCATTGTGTCCATTCTAAAATTGTGATCGAAC

Donor Template WT -> SNV

TTTAAATATATGTTCTAGGATTTCTGAAAGACTTAACACCACTGTGGGGAATGTTTTTAAATGCTCAAAGAGGCCAGGTAACGT
AAATTTTATATACAAGATCCTAAAGACTTTCTGAATTGTGGT6ACACCCCTTACAAAAAATTACGAGTTTCTCCGGTCCATTGCA

4590

ADAM10

ADAM10-201

CTGAATTGTGGT6ACACCCCT

Sanger Sequencing

GCCAATAATAAAGAGATAGGACTGAGGTTTGAATACAAATATATGTGACCCAAAAGACATTACAAGTCTAAAATATACTATCCTT
CGGTTATTATTTCTCTATCCTGACTCCAAACTTATGTTTATATACACTGGGTTTTCTGTAATGTTTCAGATTTTATATGATAGGAA

4675

ADAM10

ADAM10-201

TACATGTTTTGTTATAAAAAGAAAAACAAATGTTTTATATAAATGTAAATATTTTTATTAGCATTAAAAATTAGAGTGACCACTTGCC
ATGTACAAAACAATATTTTTCTTTTGTTTACAAAATATATTTACATTTATAAAAAATAATCGTAATTTTAATCTCACTGGTGAACGG

4760

ADAM10

ADAM10-201

G
PCR Reverse

TTGGTTTGCCAAGGTATTTCCTCATTTTTAACTGAACGTTGTGTGTCAGCAGACAATCTGGTTGGTCATGTTAATAAAAAATCTC
AACCAAACGGTTCATAAGGAGTAAAAATTGTGACTTGCAACACACAGTCGTCTGTTAGACCAACCAGTACAATTATTTTTAGAG

4845

ADAM10

ADAM10-201

AACCAAACGGTTCATAAGGAGTA

PCR Reverse

AGGACTTTTTCGTATTTTAATTATTTTTTCCCTTCTTTTCTTTAGTCATAGGTGACAGGTTATAGTTATTCAAAAACATAAGTT
TCCTGAAAAGCATAAAATTAATAAAAAAAGGGAAGGAAAAAGAAATCAGTATCCACTGTCCAATATCAATAAGTTTTGTATTCAA

4930

ADAM10

ADAM10-201

CAAAATGAGAAAACATTTTTCTTTTATGATAAAACATTTATCATATATTTTGGACATCCTTTCTAAAAGTAGTATGGTAGAGTT
GTTTTACTCTTTTGTAAAAAAGAAAATACTATTTTGTAAATAGTATATAAAACCTGTAGGAAAAGATTTTCATCATACCATCTCAA

5015

ADAM10

ADAM10-201

ATGTTTCTTGAGCCATGAATATTTGTATTTCAGATCTATTCTTTGATCTGTAAAATGGCATAAAACAATTCTGTTTCAGGTGGGTCT
TACAAAGAACTCGGTACTTATAAACATAAGTCTAGATAAGAACTAGACATTTTACCGTATTTGTTAAGACAAAAGTCCACCCAGA

5100

ADAM10

ADAM10-201

TTCTAGTGTTAAGTGAGATTTTATTCTTATATGTATTGAAGAAGTACATATTGATCTTCTGCCATATGTCAGAGACTGTGGAAAG
AAGATCACAAATCACTCTAAAATAAGAATATACATAACTTCTTCATGTATAACTAGAAGACGGTATACAGTCTCTGACACCTTTC

5185

ADAM10

ADAM10-201

TTCTGGGAATATGTGGAGATTAAGATGAAGGCTATTCTCAAAGGTTATCGTTAATTGGAGACACAGAGAAAACAATTTAGAGTA
AAGACCTTATACACCTCTAATTCTACTTCCGATAAGAGTTTTCCAATAGCAAATTAACCTCTGTGTCTCTTTGTTAAATCTCAT

5270

ADAM10

ADAM10-201

GTAGGAGAGGGTTAAGTATAGGATGATATTCTACACACAAGAGGAATAGCTAATCTAGCCTTATAAGTATTTGAAGGCAATAATC
CATCTCTCCCAATTCATATCCTACTATAAGATGTGTGTTCTCTTATCGATTAGATCGGAATATTCATAAACTTCCGTTATTAG

5355

ADAM10

ADAM10-201

AGACCTTAAGAATAAGTAGGAGTTAGGTTAGCCATGAGGATATGGAAAGACTATTCCAAGCAGGAGGAACAGTACATACAAAGGC
TCTGGAATTCTTATTCATCCTCAATCCAATCGGTACTCTATACCTTTCTGATAAGGTTCTGTCTCTTTGTCATGTATGTTCCG

5440

ADAM10

ADAM10-201

CAAGGAGACAGAAAGATCAGTAAAGAATTTTTAACATGAGGGGTAGAGTTTAAGAGTAGATTTTAGGAGACTAATGAGAAGTTGTT
GTTCCCTCTGTCTTTCTAGTCATTTCTTAAAAATTGTA CTCCCATCTCAAATTTCTCATCTAAAAATCCTCTGATTACTCTTCAACAA

5525

ADAM10

ADAM10-201

GTAGTTATTCAGTTGAGAAGTGATAGTGGCCTGTACTAATGTATTGGCAATTTGGATAGAGGGGTTGAGATTATAGACTGTTAGA
CATCAATAAGTCAACTCTTCACTATCACCGGACATGATTACATAACCGTTAAACCTATCTCCCAACTCTAATATCTGACAATCT

5610

ADAM10

ADAM10-201

TATGATAGAATTTAGCATGGTGCTTGATAAAATATTAATATACAAAAGTAGGTTGCATTTATTTATACCACGAGTAGACTACCAG
ATACTATCTTAAATCGTACCACGAAC TATTTATAATTATATGTTTTTCATCCAACGTAATAAATATGGTGCTCATCTGATGGTC

5695

ADAM10

ADAM10-201

AAATATAATGAAAAGGGTGGACATTGTTAATAATGTCAGAGAATATTATATATTATAGAATAAATGTAACAAAGAATTATAAGACC
TTTATATTACTTTCCACCTGTAACAATTATTACAGTCTCTTATAATATATAATATCTTATTTACATTGTTTCTTAATATTCTGG

5780

ADAM10

ADAM10-201

TATGTAAGGAAAAATCAAACTTTATAAAAAATTAAGGAAGATTGATTTTAAATGAATGGAGAGATATACCATATTAATGGGAAA
ATACATTCTTTTAGTTTTGAAATATTTTTATAATTCCTTCTAACTAAAATTTACTTACCTCTCTATATGGTATAATTACCCTTT

5865

ADAM10

ADAM10-201

TAATAATATTATAAAATTATCAGTTCTCCCTTTATTGATTTGTAGATTCAATGGTAGTCCAATACACATTACAACAGGCTTATTC
ATTATTATAATATTTAATAGTCAAGAGGGAAATAACTAAACATCTAAGTTACCATCAGGTTATGTGTAATGTTGTCCGAATAAG

5950

ADAM10

ADAM10-201

ACAACACTCAATGGGTCAAAAATGTTATATGGAAAAGTAAGGACTAAGAAGAAGTAGGGCCCATTTAAAGACGATGAACAGGAAA
TGTTGTGAGTTACCCAGTTTTTACAATATACCTTTTCATTCTGATTCTTCTTCATCCCGGGTAAATTTCTGCTACTTGTCTTTT

6035

ADAM10

ADAM10-201

GAGGGAAAGAGGGATTTACCCTAGGAGGTATTAAGACTTGCTATAATAATTGAGAGTGTGATAGCACAAAGGATGGACAAATTAAC
CTCCCTTTCTCCCTAAATGGGATCCTCCATAATTCTGAACGATATTATTAACCTCTCACACTATCGTGTTCTACCTGTTTAATTG

6120

ADAM10

ADAM10-201

TAGCGGAATAAAAAATGAGTGCTTAGAAAAAGACCCATGCGTATATGAAACTTTGTTATGTGGTAGAGATGCAATCTCAAATAGT
ATCGCCTTATTTTTACTCACGAATCTTTTTCTGGGTACGCATATACTTTGAAACAATACACCATCTCTACGTTAGAGTTTAATCA

6205

ADAM10

ADAM10-201

AAGGAAAAGTGAGGACCATTGAATAAATGGATCCAGAAAAAATGTTTATCTATTTGAAAAAAGATGAAGTTGGATCACCATCCT
TTCCTTTTCACTCCTGGTAACTTATTTACCTAGGTCTTTTTTACAAATAGATAAACTTTTTTCTACTTCAACCTAGTGGTAGGA

6290

ADAM10

ADAM10-201

ACAACAATAAAGTCCAGGCTGTAAATGAAGTCCATATTTACAACAAAAAAGTCTAGATGGATTGAAGTTTTAAATGTCTAAAATG
TGTGTTATTTTCAGGTCCGACATTTACTTTCAGGTATAAATGTTGTTTTTTTCAGATCTACCTAACTTCAAATTTACAGATTTTAC

6375

ADAM10

ADAM10-201

AAAACTTTGAACTTGTAGATTTCCCTTTCAAGCTGTGATAGAGTAAGTATCTAACTAGGCTTTCTACAACAAACAAGTCTAGA
TTTTGAACTTTGAACATCTAAAGGGAAAAGTTCGACACTATCTCATTGACTATAGATTGATCCGAAAAGATGTTGTTTGTGATCT

6460

ADAM10

ADAM10-201

AAACCAAACAAAATATTTCAAACAATTATTTCAAACATTAGAAAACAAGCATTGCAGGATTGATATCTGAGTGAGGAAATAAAT
TTTGGTTTGTATAAAGTTTGTAAATAAAGTTTGTAAATCTTTGTTTCGTAACGTCTAACTATAGACTCACTCCTTTATTTA

6545

ADAM10

ADAM10-201

ATCTCTGTGATTTCCCTGCCTTCTTGGCTGGAGTCGAAATTTTCAGATATGACACACAGAAGGAGATCTCAAGAAGGATAAAAAACA
TAGAGACTAAAGGGACGGAAGAACCAGCTCAGCTTTAAAGTCTATACTGTGTGCTTCTCTAGAGTTCTTCTATTTTTGT

6630

ADAM10

ADAM10-201

CAGCAGTGTGCTGAGTTGAAGAGTTAGAATTAAGAGTTCAGGAAGACTGAGGTGTCTGGACTTACGGGCGCAATACCTGAGAGG
GTCGTCAACAACGACTCAACTTCTCAATCTTAATTCTCAAGTCTTCTGACTCCACAGACCTGAATGCCCGCGTTATGGACTCTCC

6715

ADAM10

ADAM10-201

AGAGAGCTGTGTTGAGAAAAAGCTCCAGATATCTGCACAGGTGTTGCTTTCCTTGAGTCTTAGCTGAATACTAAGCTGTGCCTGC
TCTCTCGACACAACCTCTTTTTCGAGGTCTATAGACGTGTCCACAACGAAAGGAACTCAGAATCGACTTATGATTGACACGGACG

6800

ADAM10

ADAM10-201

CTGCACGGGATGAAATTCCTTTGAGAAAACCATGAGACAAAGAAAAACTACCTGGACTCTGTGAAATGAACAACCTGTCAAAAACAA
GACGTGCCCTACTTTAAGAACTCTTTTGGTACTCTGTTTCTTTTGGATGGACCTGAGACACTTTACTTGTGACAGTTTTTGT

6885

ADAM10

ADAM10-201

TACTTGGGCCAGGTGTGGTGGTTCATGCCTGTGAATCCCAGCACTTTAGAAGGCTGAGGCAGCAGGACCACTTGAGGCCAGGAGT
ATGAACCCGGTCCACACCACCAAGTACGGACACTTAGGGTCGTGAAATCTTCCGACTCCGTCGTCTGTTGAACTCCGGTCTCTCA

6970

ADAM10

ADAM10-201

GCGAGACCAGCCTGGGCAAACTAGCCAGATCTCATCTCCATAATAGTAATAATTATTATTATTTAATTAGCTGGGTGTGGTGA
CGCTCTGGTTCGGACCCGTTTGTGATCGGTCTAGAGTAGAGGTATTATCATTATTAATAATAATAAAAAATTAATCGACCCACACCACT

7055

ADAM10

ADAM10-201

TGAGCATCTGTAGTCTCAGCTACTCTGGAGGCTGAGACGAGAGGATTTCTTGAGCCCAGGTGGTTGAGGCTGCTGTGATCCATGA
ACTCGTAGACATCAGAGTCGATGAGACCTCCGACTCTGCTCTCCTAAAGAACTCGGGTCCACCAACTCCGACGACACTAGGTACT

7140

ADAM10

ADAM10-201

TTGTGCCATGGCACCCAGCCCGGGCAGCAGCGGAGACCCTGTCTCTAAAAAAATTACTTATTAGATATCCCAAGCCGTGGT
AACACGGTACCGTGGGGTCGGGCCCGTCGTCGCGCTCTGGGACAGAGATTTTTTTAATGTGAATAATCTATAGGGTTCGGCACCA

7225

ADAM10

ADAM10-201

AGTAGCAGGGCTAACCTAGCCCTAGAGTAGAAGCTACTTCAGACCTGCCCTTCCTAAGCAGAAAAACAAACCTCAAAAATGTCAA
TCATCGTCCCGATTGGATCGGGATCTCATCTTCGATGAAGTCTGGACGGGAAGGATTCGTCTTTTTGTTTGGAGTTTTTACAGTT

7310

ADAM10

ADAM10-201

ACTGCTTTTTCAAATAAATTAGCTGTCTGTCAGAGAAAAGCTCAATAATATTTGTTAAAGGAGGACACTAAGTCCAGTTACTCAGC
TGACGAAAAGTTTATTTAATCGACAGACAGTCTCTTTTCGAGTTATTATAAACAATTTCTCCTGTGATTTCAGGTCAATGAGTCG

7395

ADAM10

ADAM10-201

AGTATAACATTCAGTGTTTCAGCATTCAAAGAACATTACTAGATGACAAGAACTGAAAAACGTGATTTCATAATAAGGAGAAAAAGC
TCATATTGTAAGTCACAAGTCGTAAGTTTCTTGTAATGATCTACTGTTCTTTGACTTTTTGCACTAAGTATTATTCCTCTTTTTCG

7480

ADAM10

ADAM10-201

CACCTAAATAGAAACACAACGTCTGTTAATTACAGATGTTAACAGGCAAGGACTTTAAAAACAATATTATTAGTATGTTCAAAGA
GTGGATTTATCTTTGTGTTGCAGACAATTAATGTCTACAATTGTCCGTTCTGAAATTTGTTGATAATAATCATACAAGTTTTCT

7565

ADAM10

ADAM10-201

ATTAAGACATGAACACAAAAAGGAGAGAATGGAAATTTCTAATAAAGAACCAAATGGAACCTTCTAGGGTGAAAAATATATTATCT
TAATTTCTGTACTTGTGTTTTCTCTCTTACCTTTAAGATTATTTCTTGGTTTACCTTGAAGATCCCACTTTTTATATAATAGA

7650

ADAM10

ADAM10-201

GAGGTAAAAAATTTAGTGGATAGGCTTAAAAGAAAATTAATTAAGTGCAGAACTCAATATGAATATACTTGAGTAAAGGAAAAATAA
CTCCATTTTTTAAATCACCTATCCGAATTTCTTTAATTAATGACGTCTTGAGTTATACTTATATGAACCTCATTTCTTTTTATT

7735

ADAM10

ADAM10-201

AATAGACAGTATCCATATCTAAGCACAGAGGGAAAAATAATTGACGTCCAGCAGGAAGAGATGCAGAAAAAATATTTAAAAATTA
TTATCTGTCATAGGTATAGATTCGTGCTCCCTTTTATTAAGTGCAGGTCGTCTCTCTACGTCTTTTTTTATAAATTTTTAAT

7820

ADAM10

ADAM10-201

ATGCCTCCGAATTTTTAGATACTAGGAAAAATTTCAATTCATGGTCCAAGAACTCAATGAAACACGTGCAGGATAAACACAAAAG
TACGGAGGCTTAAAAATCTATGATCCTTTTTAAAGTTAAGTACCAGGTTCTTTGAGTTACTTTGTGCACGTCTATTTGTGTTTC

7905

ADAM10

ADAM10-201

AAAACCATACCAGGGTATGTTACAATTAATTTATTGGAAACACCTGAAAATCATAAAAAACATAAAAGCAGGCAGAGAAAAGGA
TTTTGGTATGGTCCCATACAATGTTAATTTAATAACCTTTGTGGACTTTTAGTATTTTTGGTATTTTCGTCCGTCTCTTTTCT

7990

ADAM10

ADAM10-201

GATACATTTACATACAGGGGAACAAAGATAAGTATAACTGGTGACTTCTCATTACACAGTACAAACTGGAAGACATAGAATAACA
CTATGTAAATGTATGTCCCTTGTCTTCTATTTCATATTGACCACTGAAGAGTAATGTGTGCATGTTTGACCTTCTGTATCTTATTGT

8075

ADAM10

ADAM10-201

TCTTCAAAGTGTGGACAGAAAACCTGCCAAACTAGGATTCTATATTCAGTGAAAATAATTTTCAAAAACAAGGCAAATTAAGAT
AGAAGTTTCACAACACTGTCTTTTGGACGGTTTGATCCTAAGATATAAGTCACTTTTATTAAGGTTTTTGTCCGTTTAATTTCTA

8160

ADAM10

ADAM10-201

CTTTTTAAATAAAAATTGAGAGAATTTGTGTCTAGGTGACCTACACTGTAAGAAACATTAAAGGAAGTTCTTCAGGCAGAAAAAG
GAAAAATTTATTTTAACTCTCTTAAACACAGATCCACTGGATGTGACATTCTTTGTAATTTCTTCAAGAAGTCCGTCTTTTTTC

8245

ADAM10

ADAM10-201

ATACCAGATGGAAACTCGGATACACACAGAAGAGTGAAGAACATAAAAATAGTAACTATATAGATAAAATATTAAGCAGTTTTTTCT
TATGGTCTACCTTTGAGCCTATGTGTGTCTTCTCACTTCTTGTATTTTATCATTGATATATCTATTTATAATTCGTCAAAAAAGA

8330

ADAM10

ADAM10-201

CATTTAAAAAACCTTCAAGAGATTATTACCTAAGTCCAATAATAAGGTATAATGGATTTTGTAAATATACAGAGAATCAAAATT
GTAAATTTTTTTGGAAGTTCTCTAATAATGGATTCAGGTTTATTATTCCATATTACCTAAAACATTATATGTCTCTTAGTTTTAA

8415

ADAM10

ADAM10-201

TATGACAGTAGTGCAAAGGACAAGAGAAAAGAAGAATAGAAGTATGTTTCTTAAACAATTTGTGAAGTGATGTAATTTTGACAGGT
ATACTGTCATCACGTTTCTGTCTCTTTCTTCTTATCTTCATACAAAGAATTTGTTAAACACTTCACTACATTAACACTGTCCA

8500

ADAM10

ADAM10-201

AAACTGTGCCGTGATAAAGATGGATATTGTAACCGTAGAGCCGGGGTCAGCAAACACTACGGCCTGTGGGCCAGATGTTTGCTTTT
TTTGACACGGCACTATTTCTACCTATAACATTTGGCATCTCGGCCCCAGTCGTTTGTATGCCGGACACCCGGTCTACAAACGAAAA

8585

ADAM10

ADAM10-201

GTAAGTAAAGTTTTATTAGAACACAGCCACACCTATTCATTGAT
CATTCAATTTCAAAATAATCTTGTGTCCGGTGTGGATAAGTAACTA




















3'

8629

5'

ADAM10

ADAM10-201

Feature	Location	Size		Type
✓ ADAM10	1 .. 8629	8629 bp	 →	gene
/note	= gene ENSG00000137845 Protein coding			
✓ ADAM10-201	1 .. 8629	8629 bp	 →	prim_transcript
/note	= primary transcript ENST00000260408			
ADAM10-202	1 .. 8629	8629 bp	 →	prim_transcript
/note	= primary transcript ENST00000396136 Nonsense mediated decay			
ADAM10-203	1 .. 8629	8629 bp	 →	prim_transcript
/note	= primary transcript ENST00000402627			
ADAM10-213	1 .. 8629	8629 bp	 →	prim_transcript
/note	= primary transcript ENST00000558733 protein_coding_CDS_not_defined			
ADAM10-214	1 .. 8629	8629 bp	 →	prim_transcript
/note	= primary transcript ENST00000559053			
ADAM10-217	1 .. 8629	8629 bp	 →	prim_transcript
/note	= primary transcript ENST00000561288			
ADAM10-204	1 .. 4392	4392 bp	 →	prim_transcript
/note	= primary transcript ENST00000439637			
ADAM10-211	1 .. 4386	4386 bp	 →	prim_transcript
/note	= primary transcript ENST00000497846 protein_coding_CDS_not_defined			
ADAM10-212	1 .. 4356	4356 bp	 →	prim_transcript
/note	= primary transcript ENST00000558004			
✓ ADAM10-201	4341 .. 4441	101 bp	 →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000260408			
/translation	= YPHKYGPQGGCADHSVFERMRKYQMTGVVEVTQ 33 amino acids = 3.8 kDa			
ADAM10-204	4341 .. 4392	52 bp	 →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000391930			
/translation	= YPHKYGPQGGCADHSV 17 amino acids = 1.7 kDa			
ADAM10-212	4341 .. 4356	16 bp	 →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000452704			
/translation	= YPHK 5 amino acids = 543.6 Da			
✓ Donor Template WT -> SNV	4365 .. 4464	100 bp		misc_feature
✓ Protospacer Sequence	4383 .. 4402	20 bp		misc_feature
✓ SNV	4397 .. 4397	1 bp		misc_feature
/note	= WT = A SNV = G			
✓ PAM	4403 .. 4405	3 bp		misc_feature
	8630 .. 9931	1302 bp	 ←	gene
/note	= gene ENSG00000259250 lncRNA			
	8630 .. 9931	1302 bp	 ←	prim_transcript
/note	= primary transcript ENST00000560594 lncRNA			

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = AATAAGGGCAGTAATGACTTGGGTG 44% GC / 7810.2 Da	25-mer	3731 .. 3755	59°C	Jan 18, 2023
✓ Donor Template WT -> SNV /sequence = CAAGCTAGTGTTAAAATCCTTACCTGTGTTACTTCCTCTACACCAGTCATCTGGTATTTCTCATTCTTCAAATACTGAATGATCTGCACA 63% GC / 730,408.8 Da	100-mer	4365 .. 4464	72°C	Jan 18, 2023
✓ gRNA Protospacer /sequence = ATTCAGTATTTGAAAGAATG 25% GC / 6179.1 Da	20-mer	4383 .. 4402	46°C	Jan 18, 2023
✓ Sanger Sequencing /sequence = TCCCCACAGTGGTGTTAAGTC 52% GC / 6397.2 Da	21-mer	4536 .. 4556	58°C	Jan 18, 2023
✓ PCR Reverse /sequence = ATGAGGAATACCTTGGCAAACCAAG 44% GC / 7708.1 Da	25-mer	4760 .. 4784	59°C	Jan 18, 2023