

ADAM10-201

Donor Template WT -> SNV

Protospacer Sequence

SNV

INK2J00040_ADAM10_R181G_F08_AB
8882 bp

5'
3'

TGCCGGGAGACCTTAACACTTGGGAAGTTGGTACTTAAATGCCATGCTTGTGTTTACATGTCAGACACCTCAGCTAGACTGACAGCT
ACGGCCCTCTGGAATTGTGAACCCCTTCAACCATGAATTTACGGTACGAACAATGTACAGTCTGTGGAGTCGATCTGACTGTCTCGA

85

ADAM10 >

ADAM10-201 >

CTTGAGAGTGCATGTTCTATGTCATTTATTTTTGTATCCCTTTGTTTGGTATATAATAATTTTTCTTAATTGTTTGCTTAATAAA
GAACTCTCACGTACAAGATACAGTAAATAAAAAACATAGGGAAACAACCATATATTATTAAGAAATTAACAAACGAATTATTT

170

ADAM10 >

ADAM10-201 >

TTAATGCAGTTAAAAATAACATTGACATATGATTAGGAGATTTATGTGTACACAGCTGTTAATTTTTGAATGTTCTGTATGTTATA
AATTACGTCAATTTTTATTGTAAGTGTATACTAATCCTCTAAATACACATGTGTGCGACAATTAAGAACTTACAAGACATACAATAT

255

ADAM10 >

ADAM10-201 >

GTCAATCTGTAAAGCAGTTAGGAATTTAGAACACACTTTGCCGTAGAAACAATTTAAAGTGTTAGACAATTCCTCTTTATTGTAG
CAGTTAGACATTTTCGTCAATCCTTAAATCTTGTGTGAAACGGCATCTTTGTTAAATTTTACAATCTGTTAAGGAGAAATAACATC

340

ADAM10 >

ADAM10-201 >

GTGGAATGAAGGCTAAAAGGAGGTTATGGGAGCCAGCAGTTTATAGGTCTTTGGTTAATGGATGACCTTTGAAAAGAGGCATAGA
CACCTTACTTCCGATTTTCTCCAATACCCTCGGTCGTCAAATATCCAGAAACCAATTACCTACTGGAAACTTTTTCTCCGTATCT

425

ADAM10 >

ADAM10-201 >

AACCACATACTGGCTGAAAAATTAATTCACAAGTATTTATTGGTTTGTGAATATACAGGAAAGAGAATTTTTAAATTTCCCT
TTGGTGTATGACCGACTTTTTAATTTAAGTTGTTTCATAAATAACCAAACACTTATATGTCCTTTCTCTTAAATTTTAAAGGGGA

510

ADAM10 >

ADAM10-201 >

GAAGATTAACAACTTCAGGGGAATTTTCAGTAATAGAGAGTCAAATGTGGTAAATGCTATAACAAAAATGTTATCAAAGCCCT
CTTCTAATTTTTGGAAGTCCCCTTAAAGTCATTATCTCTCAGTTTTACACCATTTACGATATTGTTTTACAATAGTTTCGGGA

595

ADAM10 >

ADAM10-201 >

GGGGTAGTGACTACTACCTCAGTGAGGGAGCTTTAGGGAGATTTAGGAAAGACTTCCCTGGGGAGGTGGAATTTGACTTGAACCTT
CCCCATCACGTATGATGGAGTCACTCCCTCGAAATCCCTCTAAATCCTTCTGAAGGGACCCCTCCACCTTAAACTGAACTTGGAA

680

ADAM10 >

ADAM10-201 >

GAAGATAAGGGGTAGACTTTTGATTGCTAGAGGAGAGAATCTGTGATCACAGGAGAAGCCTCAGCCCTATTACTCTGGCTGCAAC
CTTCTATTCCCCTCTGAAAACCTAACGATCTCCTCTCTTAGACACTAGTGTCTCTTTCGGAGTCGGGATAATGAGACCGACGTTG

765

ADAM10 >

ADAM10-201 >

AATATTTCTTTTCAGTTGTACAGCTTGGGAACCTAAAGAAAGGAAAGAGATTTCGCATGTTCTTTGGCCTAGTCACCCATTACC
TTATAAAGAAAAGTCAACAGTGTGCAACCCCTTGATTTCTTTCTTTCTCTAAGCGTACAAGAAACCGGATCAGTGGGTAAGTGG

850

ADAM10 >

ADAM10-201 >

CCTGTGTATAGCTGTATAGTCCCAAGTCAAATACACGTAAATAATGGTCACTTAAAGTTAGTATGTTACAAGTTTTTCATTCCAAG
GGACACATATCGACATATCAGGGTTCAGTTTATGTGCATTTATTACCAGTGAATTTCAATCATAACAATGTTCAAAAAGTAAGGTTTC

935

ADAM10

ADAM10-201

TGTCAGTTGTAAGTTTTACAGGTTTAACTGATTAATTTGTTAATAAACATTTTTTGGAGTGCCTAATCTGTACAAGACACTTT
ACAGTCAACATTCAAAAATGTCCAAATGTTGACTAATTAACAATTATTTGTAAAAACTCACGGATTAGACATGTTCTGTGAAA

1020

ADAM10

ADAM10-201

TAGAAACTATCCATAACAATAATGAATAGGGCAAAGTTCTGCCTTAACTTTAGAGTCTAGTAATTTCTGTTTGTCAATTGATCA
ATCTTTGATAGGTATGTTATTACTTATCCCGTTTCCAAGACGGAATTTGTGAAATCTCAGATCATTAAAGACAAACAGTAACTAGT

1105

ADAM10

ADAM10-201

GAATAATAAAGCAACATTTCTCTGGTTGACCTGACTCCCATTATCCTTTGGCTGCCAATAGTAACCCTTTCTTTCTAAAACCCAT
CTTATTATTTTCGTTGTAAAGAGACCAACTGGACTGAGGGTAATAGGAAACCGACGGTTATCATTGGGAAAGAAAGATTTTGGGTA

1190

ADAM10

ADAM10-201

GGGGTGAGAAGGGACATGTCTGGCCCTCTTCTCATCTCTGTTTCCAGAGAGATCAGTGTGTTGTGAGTGCTTGTGGAAAAGTGGGGT
CCCCACTCTTCCCTGTACAGACCGGGGAGAAGGAGTAGAGACAAAGGTCTCTCTAGTCACAACACTCACGAACACCTTTCACCCCA

1275

ADAM10

ADAM10-201

CATTTTCAACTTCTCTCTTTCTAGGGACAATCACTCTGTGCTTTTCTTATGCCCACTTACCCTCCCAAAACAGAAATTAGACA
GTAAGAAGTTGAAGGAGGAGAAAGATCCCTGTTAGTGAGACACGAAAAGAATACGGGTGAATGGGAGGGTTTTGTCTTTAATCTGT

1360

ADAM10

ADAM10-201

TGGGGATTGGGAAGACATGAGAATTGGTACCCGGGAGAAACGGCCTCCCATCCACTGGAATTAGGAGGAAGAACATTTGGAGTTC
ACCCCTAACCTTCTGTACTCTTAACCATGGGCCCTCTTTGCCGGAGGGTAGGTGACCTTAATCCTCCTTCTTGTAAACCTCAAG

1445

ADAM10

ADAM10-201

TTTCTGTCTCCAACTTTTCATTTCTTCTCAAAGAAAAAAAAAAAAAGCCTATCCTTTCTTCTACTCTCCATCAGTGAATCCTT
AAAGGACAGAGGTTTGAAGAAGTAAAGAAGAGTTTTCTTTTTTTTTTTCGGATAGGAAAGAAGATGAGAGGTAGTCACTTAGGAA

1530

ADAM10

ADAM10-201

GTTGATGTAGGCAACTTTGGGAATAAATGACGATTTTCATGGACAAGGCCCCACCTCATGATACTCTGGATACTAACAAAAATA
CAACTACATCCGTTGAAACCTTATTTACTGCTAAAAGTACCTGTTCCGGGGGTGGAGTACTATGAGACCTATGATTGTTTTTAT

1615

ADAM10

ADAM10-201

ATTTTTATGCATAATAATATTATTCTATAGAAGTCATTCTATTTTAAATTCAATTAATGCAGATTTTTAAAAATTGGCTTTGGTG
TAAAAATACGTATTATTATAATAAGATATCTTCAGTAAGATAAAATTTAAGTTAATTACGTCTAAAAATTTTTAACCGAAACCAC

1700

ADAM10

ADAM10-201

ATTCATGGCATATTATTGGAGGGATTACCATCCAGTTTTTGGACTATTAGAGGGTCATCTCATAGCCAAGGCCTTGGATGTTTTGCAG
TAAGTACCGTATAATAACCTCCCTAATGGTAGGTCAAACCTGATAATCTCCAGTAGAGTATCGGTTCCGGAACCTACAAACGTC

1785

ADAM10

ADAM10-201

TTAAGTTTCTGAGCTGCTAGTCACATAAGGCTGAGGGGTACCCTGTTGGAGGTAGTGAGGGTGCAAAAAGTGAGTATTTTATGCC
AATTCAAAGACTCGACGATCAGTGTATTCCGACTCCCCATGGGACAACCTCCATCACTCCCACGTTTTTCACTCATAAAAATACGG

1870

ADAM10

ADAM10-201

TAGTTCTGTTGACAGAGAATCTGAACTGTAAATATTCCTCCTTGAAAGAGTGGATGATTGAGAGTTAACTAGAGCTATTTCTCTGC
ATCAAGACAACCTGTCTCTTAGACTTGACATTTATAAGGAGGAACCTTCTCACCTACTAACTCTCAATTGATCTCGATAAAGGACG

1955

ADAM10

ADAM10-201

TTGAGTTAGAGTCACAATATATGTACTATTTATATTTGTGTCTTGAACAACAAAAACAAAAGCAAGAGGCTGGCAGAGGAACTGGA
AACTCAATCTCAGTGTATATACATGATAAATATAAACACAGAACCTGTTGTTTTGTTTTCGTTCTCCGACCGTCTCCTTGACCT

2040

ADAM10

ADAM10-201

AGAAAGGCAATAGATCTAAAGCTGATCTTTGTTTTAAATAGGCCGAATATTCTACACCCATGACTCATTGTTTGTGAAAAGAATAT
TCTTTCCGTTATCTAGATTTTCGACTAGAAAACAAAATTTATCCGGCTTATAAGATGTGGGTACTGAGTAACAAACACTTTTCTTATA

2125

ADAM10

ADAM10-201

GCTGTTTGGCCTTTTCAGGGGAACTACAGTGCATCCTATGATTTAGCATCTCAATGAGGGCTTATTCATTAGTTGAACAAAGGCT
CGACAAACCGGAAAAGTCCCTTGATGTCACGTAGGATACTAAATCGTAGAGTTACTCCCGAATAAGTAATCAACTTGTTTCCGA

2210

ADAM10

ADAM10-201

TTTTCTAGAAATGAGGATTATATTGTTAGTAATTTTAGAGGGAAAATGTCATTGTCCATTTTTATAGTTAATGTGGTGTCCAAGG
AAAAGATCTTTACTCCTAATATAACAATCATTAAAATCTCCCTTTTACAGTAACAGGTAAAAATATCAATTACACCACAGGTTCC

2295

ADAM10

ADAM10-201

AAAACAGCATCTTTTAGAAATTTTGAAAGTATATGGGAAAAATTGCATGCTTGACCCTTTCTATTGGGAGAGTTTTGTGCTGACA
TTTTGTCGTAGAAAATCTTTAAAACCTTTCATATACCCTTTTTAACGTACGAACCTGGGAAAGATAACCCCTCTCAAAACACGACTGT

2380

ADAM10

ADAM10-201

GAATTTGAAGCATATATAAAACTGTTTTGTTGCTTTGGAAATATTTGGAAATTTTTTTTACCCTAAGTTTCAAGCTTTCAAAAG
CTTAAACTTCGTATATATTTATGACAAAACAACGAAACCTTTATAAACCTTTAAAAAAAATGGGATTCAAAGTTTCGAAAAGTTTTTC

2465

ADAM10

ADAM10-201

GAATTTATATTTTTAATTCGTGATATATAAAATTCAGTTTGCGAAGAAAATAAAACACTAATTTCTTTTAAAATCCCAATGTTTTAA
CTTAAATATAAAAATTAAGCACTATATATTTAAGTCAAACGCTTCTTTATTTTGTGATTAAGAAAATTTTAGGGTTACAAAATT

2550

ADAM10

ADAM10-201

GTAACAATG TACTAAATAAATG TTTTTTTTTTGT TCCCTATACATTAATAACCAATGGTAAGTGAGTTTTAGGGTTTTGACGAAA
CATTGTTACATGATTTATTTACAAAAAAAAAACAAGGGGATATGTAATTATTGGTTACCATTCACTCAAAAATCCCAAAACTGCTTT

2635

ADAM10

ADAM10-201

GATTTTAAAGGTCACAGAACAGTTGTAATTTTTTCCCCATTGATTATTAAGATCATTTTTGCATAGTTTCAGCTTGCATGGTCAGT
CTAAAATTTCCAGTGTCTTGTCAACATTA AAAAAGGGGTA ACTAATAATTCTAGTAAAACGTATCAAAGTCGAACGTACCAGTCA

2720

ADAM10

ADAM10-201

TTTATGACTGGCACTTACTGGTGTGGCAAAGCAAGGACTGCCTGGTGTAACTAGGTGAATGAAATTGAGAATAGACTCTGGAAA
AAATACTGACCGTGAATGACCACACCGTTTCGTTCCCTGACGGACCACAATTGATCCACTTACTTTAACTCTTATCTGAGACCTTT

2805

ADAM10

ADAM10-201

TTCAGTTGCTAGCTGGCATTAAAGGAACTGCTTGAGGTTATAGATCATGACTTTTTGAATGAGACTGGAATTACTAGTTTTTCTTTA
AAGTCAACGATCGACCGTAATTCCTTGACGAACTCCAATATCTAGTACTGAAAAC T TACTCTGACCTTAATGATCAAAAAGAAAT

2890

ADAM10

ADAM10-201

GCCTCATT CAGCTTCAGGAGGAGCTTCTCTCTTTCATAGTTACACTTCTGAAGTAAGTAAGACACCCTGCATTCACCATCAACT
CGGAGTAAGTCGAAGTCCTCCTCGAAGAGAGAAAAGTATCAATGTGAAGACTTCATTCATTCTGTGGTGACGTAAGTGGTAGTTGA

2975

ADAM10

ADAM10-201

CCCTTCAGGGGCGTTGGGGTGGAGCACAAGGGAGTTGATGGTGAATGCAGTGGTGT AATTATAATAAATTGACTGTGGGATTT
GGGAAAGTCCCCGCAACCCACCTCGTGTTCCTCAACTACCACTTACGTCACCACATTAATATTATTAACTGACACCCTAAA

3060

ADAM10

ADAM10-201

AAACTGAATAAGGAAGAGAAAGAATATCTGGTGATAGACAATAAGGTGGTAGCATTGGTGGATTAAAGGGTCTCACTGATGTTAA
TTTGACTTATTCTTCTCTTTCTTATAGACCACTATCTGTTATTCCACCATCGTAACCACCTAATTTCCAGAGTGACTACAATT

3145

ADAM10

ADAM10-201

AGGGTTGATGGAACCTAGAGGGGAATGTGCTGAAAAGATAAGTGGTGGAAAGAAAAGTAGAATACTAGAAGTTGAGATTATGAAGTG
TCCCAACTACCTTGGATCTCCCTTACACGACTTTTCTATTACCACCTTTCTTTCATCTTATGATCTTCAACTCTAATACTTCAC

3230

ADAM10

ADAM10-201

CTTTCAGTTATCAATAGTGACAAGTTCAGAAGAGTAACTATGGAAATGAGAAACTGAGGTAGGAAAAAATCATTGGAGAAAAGAA
GAAAGTCAATAGTTATCACTGTTCAAGTCTTCTCATTGATACCTTTACTCTTTGACTCCATCCTTTTTTTAGTAACCTCTTTTCTT

3315

ADAM10

ADAM10-201

CTGAGTGTAGTGGAAGGATCATCGTTCATGAATGATGAATGATGAATGATGAATGATGAATGATGTCATCAGTCATGATGATGAGG
GACTCACATCACCTTCCCTAGTAGCAGTACTTACTACTTACTACTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACTTCC

3400

ADAM10

ADAM10-201

PCR Forward

AATAAGGGCAGTAATGACTTGGGTG

TGGTGT CAGAGAGACTGACAGTAAGTCAGGATCTAAAAATAAGGAAATAAGGGCAGTAATGACTTGGGTGACAACAAATGCCTGT

ACCACAGTCTCTCTGACTGTCATT CAGTCCTAGATTTTTATT CCTTTATTCCCGT CATTACTGAACCCACTGTTGTTTACGGACA

3485

ADAM10

ADAM10-201

AATAAGTTGGGGTAGTCAGTGATACAGTCACGTAAGTGTAAACTGAGCTACTATGAGAATAGTCTTAATGGTCCTAAGGGAGAA

TTATTCAACCCCATCAGTCACTATGTCAGTGCATTGACATTTTGACTCGATGATACTCTTATCAGAATTACCAGGATTCCCTCTT

3570

ADAM10

ADAM10-201

AGTGGTAGATAGTTGTGTTTTGTGAAATGAGGGGTGGGGAGTATCTTCCCAAGAGTAGGAAGAGTTTTGGGGTTCTCTTTTATAT

TCACCATCTATCAACACAAAACACTTTACTCCCCACCCCTCATAGAAGGGTTCTCATCTTCTCAAAACCCCAAGAGAAAATATA

3655

ADAM10

ADAM10-201

TTGCTAGAGTCCTCCTGATGGAGCTCAGGAATACTGCAGAAGGATTCTCTTGACCCCTGCCAGATGATGGTCCAGAAACATAGAT

AACGATCTCAGGAGGACTACCTCGAGTCTTATGACGTCTTCTAAGAGAACTGGGGACGGTCTACTACCAGGTCTTTGTATCTA

3740

ADAM10

ADAM10-201

ATTCTCTTGGTGACAGCCGAATGCAATATATTGGTGATAGGGTCAGAATAATGAGTGGTTATTGCCCTTTTTAGAAATTCACAAA

TAAGAGAACCCTGTCGGCTTACGTTATATAACCACTATCCAGTCTTATTACTCACCAATAACGGGGAAAAAATCTTAAGTGTTT

3825

ADAM10

ADAM10-201

TCATCTATATGACAAAAAGCTAAAGACCAGTGGTTTTTTATTGAGGGAGAGCTTAGGAACCTGCTAGGTTTTAGCATTAAAATGCC

AGTAGATATACTGTTTTTCGATTTCTGGTCACCAAAAATAACTCCCTCTCGAATCCTTGGACGATCCAAAATCGTAATTTTACGG

3910

ADAM10

ADAM10-201

TAGCATAATGCCTTTTCCATAGGTGCTTAATAAGCATTATGGTTTTTCATTAGTTAAGACAGTTAAATTTTTACTTGTAAATTCCTC

ATCGTATTACGGAAAAGGTATCCACGAATTATTCGTAAATACCAAAAGTAATCAATTCTGTCAATTTAAAAATGAACATTAAGAG

3995

ADAM10

ADAM10-201

ATTTATAATTGGTTATACCTAAATGTGTGATAGTAATGACGTTTCTTCTTTGTATTTTAGACTATCCCCATAAATACGGTCCTCA

TAAATATTAACCAATATGGATTTACACACTATCATTACTGCAAAGAAGAAACATAAAATCTGATAGGGGTATTTATGCCAGGAGT

4080

ADAM10

ADAM10-201

165 170
Y P H K Y G P Q
ENSE00003661775
ADAM10-201

Donor Template WT -> SNV

Donor Template WT -> SNV

gRNA Protospacer

ATTCAGTATTTGAAAGAATG

GGGGGGCTGTGCAGATCATTTCAGTATTTGAAAGAATGAGGAAATACCAGATGACTGGTGTAGAGGAAGTAACACAGGTAAGGATT
CCCCCGACACGTCTAGTAAGTCATAAACTTCTTACTCCTTTATGGTCTACTGACCACATCTCCTTCATTGTGTCCATTCTCTAA

4165

ADAM10

ADAM10-201

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

ENSE00003661775

ADAM10-201

Donor Template WT -> SNV

Protospacer Sequence

PAM

SNV

CCCCCGACACGTCTAGTAAGTCATAAACTTCTTACTCCTTTATGGTCTACTGACCACATCTCCTTCATTGTGTCCATTCTCTAA

Donor Template WT -> SNV

TTAACACTAGCTTGCATTTAGGAAATGGAAATGAATTTGAGGATGTATATCTACATTTAAAATATATGTTCTAGGATTTCTGAAA
AATTGTGATCGAACGTAAATCCTTTACCTTTACTTAACTCCTACATATAGATGTAAATTTTATATACAAGATCCTAAAGACTTT

4250

ADAM10

ADAM10-201

L T L A C I *
- (in frame with ADAM10-201) ▶

Donor Template WT -> SNV

AATTGTGATCGAAC

Donor Template WT -> SNV

GACTTAACACCACTGTGGGGAATGTTTTTAAATGCTCAAAGAAGCCAGGTAACGTGCCAATAATAAAGAGATAGGACTGAGGTTT
CTGAATTGTGGTGACACCCCTTACAAAAAATTACGAGTTTCTCCGGTCCATTGCACGGTTATTATTTCTCTATCCTGACTCCAAA

4335

ADAM10

ADAM10-201

CTGAATTGTGGTGACACCCCT

Sanger Sequencing

GAATACAAATATATGTGACCCAAAAGACATTACAAGTCTAAAATATACTATCCTTTACATGTTTTGTTATAAAAAGAAAACAATG
CTTATGTTTATATACTGAGTTTCTGTAATGTTTCAGATTTTATATGATAGGAAATGTACAAAACAATATTTTCTTTTGTTTAC

4420

ADAM10

ADAM10-201

TTTTATATAAATGTAAATATTTTTATTAGCATTAAAATTAGAGTGACCACTTGCCTTGGTTTGCCAAGGTATTCCTCATTTTTAA
AAAATATATTTACATTTATAAAAATAATCGTAATTTTAACTCACTGGTGAACGGAACCAACGGTTCCATAAGGAGTAAAATTT

4505

ADAM10

ADAM10-201

GAACCAAACGGTTCATAAGGAGTA

PCR Reverse

CACTGAACGTTGTGTGTCAGCAGACAATCTGGTTGGTCATGTTAATAAAAAATCTCAGGACTTTTCGTATTTTAAATTTTTTTTC
GTGACTTGCAACACACAGTCGTCTGTTAGACCAACCAGTACAATTTTATTTTATAGAGTCTGAAAAGCATAAAAATTAATAAAAAAAG

4590

ADAM10

ADAM10-201

CCTTCCTTTTTCTTTAGTCATAGGTGACAGGTTATAGTTATTCAAAACATAAGTTCAAATGAGAAAAACATTTTTCTTTTATGA
GGAAGGAAAAAGAAATCAGTATCCACTGTCCAATATCAATAAGTTTTGTATTCAAGTTTTACTCTTTTGTAAAAAAGAAAAACT

4675

ADAM10

ADAM10-201

TAAACATTTATCATATATTTTGGACATCCTTTCTAAAAGTAGTATGGTAGAGTTATGTTTCTTGAGCCATGAATATTTGTATTC
ATTTTGTAAATAGTATATAAAACCTGTAGGAAAAGATTTTCATCATACCATCTCAATACAAAGAACTCGGTACTTATAAACATAAG

4760

ADAM10

ADAM10-201

AGATCTATTCTTTGATCTGTAAAATGGCATAAAACAATTCTGTTTCAGGTGGGTCTTTCTAGTGTTAAGTGAGATTTTATTCTTAT
TCTAGATAAGAACTAGACATTTTACCGTATTTGTTAAGACAAAGTCCACCCAGAAAGATCACAATTCCTCTAAAATAAGAATA

4845

ADAM10

ADAM10-201

ATGTATTGAAGAAGTACATATTGATCTTCTGCCATATGTCAGAGACTGTGGAAAAGTTCTGGGAATATGTGGAGATTAAGATGAAG
TACATAACTTCTTCATGTATAACTAGAAGACGGTATACAGTCTCTGACACCTTTCAAGACCCTTATACACCTCTAATTCTACTTC

4930

ADAM10

ADAM10-201

GCTATTCTCAAAGGTTATCGTTTAATTGGAGACACAGAGAAAACAATTTAGAGTAGTAGGAGAGGGTTAAGTATAGGATGATATT
CGATAAGAGTTTTCCAATAGCAAATTAACCTCTGTGTCTCTTTGTTAAATCTCATCATCCTCTCCCAATTCATATCCTACTATAA

5015

ADAM10

ADAM10-201

CTACACACAAGAGGAATAGCTAATCTAGCCTTATAAGTATTTGAAGGCAATAATCAGACCTTAAGAATAAGTAGGAGTTAGGTTA
GATGTGTGTTCTCCTTATCGATTAGATCGGAATATTCATAAACTTCCGTTATTAGTCTGGAATTCTTATTCATCCTCAATCCAAT

5100

ADAM10

ADAM10-201

GCCATGAGGATATGGAAAGACTATTCCAAGCAGGAGGAACAGTACATACAAAGGCCAAGGAGACAGAAAGATCAGTAAAGAATTT
CGGTACTCCTATACCTTTCTGATAAGGTTTCGTCTCCTTGTCTATGTATGTTCCGGTTCCTCTGTCTTTCTAGTCATTTCTTAAA

5185

ADAM10

ADAM10-201

TTAACATGAGGGTAGAGTTAAGAGTAGATTTTAGGAGACTAATGAGAAGTTGTTGTAGTTATTCAGTTGAGAAGTGATAGTGGC
AATTGTACTCCCATCTCAAATTCATCTAAAATCCTCTGATTACTCTTCAACAACATCAATAAGTCAACTCTTCACTATCACCG

5270

ADAM10

ADAM10-201

CTGTAATAATGATTGGCAATTTGGATAGAGGGGTTGAGATTATAGACTGTTAGATATGATAGAATTTAGCATGGTGCTTGATAA
GACATGATTACATAACCGTTAAACCTATCTCCCAACTCTAATATCTGACAATCTATACTATCTTAAATCGTACCACGAACCTATT

5355

ADAM10

ADAM10-201

AATATTAATATACAAAGTAGGTTGCATTTATTTATACCACGAGTAGACTACCAGAAATATAATGAAAGGGTGGACATTGTTAAT
TTATAATTATATGTTTTATCCAACGTAATAAATATGGTGCTCATCTGATGGTCTTTATATTACTTTCCACCTGTAACAATTA

5440

ADAM10

ADAM10-201

AATGTCAGAGAATATTATATATTATAGAAATAAATGTAACAAAGAATTATAAGACCTATGTAAGGAAAAATCAAAACTTTATAAAAA
TTACAGTCTCTTATAATATATAATATCTTATTTACATTGTTTCTTAATATTCTGGATACATTCCCTTTTAGTTTTGAAATATTTTT

5525

ADAM10

ADAM10-201

TATTAAGGAAGATTGATTTTTAAATGAATGGAGAGATATACCATATTAATGGGAAATAATAATATTATAAAATTATCAGTTCTCCC
ATAAATTCCTTCTAACTAAAATTTACTTACCTCTCTATATGGTATAATTACCCTTTATTATTATAATTTTTAATAGTCAAGAGGG

5610

ADAM10

ADAM10-201

TTTATTGATTTGTAGATTCAATGGTAGTCCAATACACATTACAACAGGCTTATTCCACAACACTCAATGGGTCAAAAATGTTATAT
AAATAACTAAACATCTAAGTTACCATCAGGTTATGTGTAATGTTGTCCGAATAAGTGTGTGAGTTACCCAGTTTTTACAATATA

5695

ADAM10

ADAM10-201

GGAAAAGTAAGGACTAAGAAGAAGTAGGGCCCATTTAAAGACGATGAACAGGAAAGAGGGAAAGAGGGATTTACCCTAGGAGGTA
CCTTTTCATTCTGATTCTTCTTCATCCCAGGTAATTTCTGCTACTTGTCTCTTTCTCCCTTTCTCCCTAAATGGGATCCTCCAT

5780

ADAM10

ADAM10-201

TTAAGACTTGCTATAATAATTGAGAGTGTGATAGCACAAAGGATGGACAAATTAAGTACGCGGAATAAAAAATGAGTGCTTAGAAAA
AATTCTGAACGATATTATTAAGTCTCACACTATCGTGTTCTACCTGTTAATTGATCGCCTTATTTTTACTCACGAATCTTTTT

5865

ADAM10

ADAM10-201

GACCCATGCGTATATGAAACTTTGTTATGTGGTAGAGATGCAATCTCAAATTAGTAAGGAAAAGTGAGGACCATTGAATAAATGG
CTGGGTACGCATATACTTTGAAACAATACACCATCTCTACGTTAGAGTTAATCATTCTTTTCACTCCTGGTAACCTATTTACC

5950

ADAM10

ADAM10-201

ATCCAGAAAAAATGTTTATCTATTTGAAAAAAGATGAAGTTGGATCACCATCCTACAACAATAAAGTCCAGGCTGTAAATGAAG
TAGGTCTTTTTTACAAATAGATAAACTTTTTCTACTTCAACCTAGTGGTAGGATGTTGTTATTTTCAAGGTCGGACATTTACTTC

6035

ADAM10

ADAM10-201

TCCATATTTACAACAAAAAAGTCTAGATGGATTGAAGTTTTAAATGTCTAAAAATGAAAACCTTTGAAACTTTGTAGATTTCCCTTTTC
AGGTATAAATGTTGTTTTTTCAGATCTACCTAACTTCAAATTTACAGATTTTACTTTTTGAAACTTTGAACATCTAAAGGGAAAG

6120

ADAM10

ADAM10-201

AAGCTGTGATAGAGTAACTGATATCTAACTAGGCTTTCTACAACAAACAACCTAGAAAACCAAACAAAATATTTCAAACAATTATT
TTCGACACTATCTCATTGACTATAGATTGATCCGAAAGATGTTGTTTGTGATCTTTTGGTTTTGTTTTATAAAGTTTTGTTAATAA

6205

ADAM10

ADAM10-201

TTCAAACATTAGAAAACAAGCATTGCAGGATTGATATCTGAGTGAGGAAATAAATATCTCTGTGATTTCCCTGCCTTCTTGCTG
AAGTTTGTAAATCTTTTGTTCGTAACGTCTAACTATAGACTCACTCCTTTATTTATAGAGACACTAAAGGGACGGAAGAACCAGAC

6290

ADAM10

ADAM10-201

GAGTCGAAATTTTCAGATATGACACACAGAAGGAGATCTCAAGAAGGATAAAAAACACAGCAGTGTGCTGAGTTGAAGAGTTAGAA
CTCAGCTTTAAAGTCTATACTGTGTGTCTTCCTCTAGAGTTCTTCCTATTTTTGTGTCGTCACAACGACTCAACTTCTCAATCTT

6375

ADAM10

ADAM10-201

TTAAGAGTTCAGGAAGACTGAGGTGTCTGGACTTACGGGCGCAATACCTGAGAGGAGAGAGCTGTGTTGAGAAAAAGCTCCAGAT
AATTCTCAAGTCTTCTGACTCCACAGACCTGAATGCCCGCGTTATGGACTCTCCTCTCTCGACACAACCTCTTTTTCGAGGTCTA

6460

ADAM10

ADAM10-201

ATCTGCACAGGTGTTGCTTTCCTTGAGTCTTAGCTGAATACTAAGCTGTGCCTGCCTGCACGGGATGAAATTTCTTTGAGAAAACC
TAGACGTGTCCACAACGAAAGGAACCTCAGAATCGACTTATGATTTCGACACGGACGGACGTGCCCTACTTTAAGAAACTCTTTTTGG

6545

ADAM10

ADAM10-201

ATGAGACAAAGAAAAACTACCTGGACTCTGTGAAATGAACAACCTGTCAAAAAACAATACTTGGGCCAGGTGTGGTGGTTTCATGCCT
TACTCTGTTTCTTTTTGATGGACCTGAGACACTTTACTTGTGGACAGTTTTTGTATGAACCCGGTCCACACCACCAAGTACGGA

6630

ADAM10

ADAM10-201

GTGAATCCCAGCACTTTAGAAGGCTGAGGCAGCAGGACCACTTGAGGCCAGGAGTGCGAGACCAGCCTGGGC AAACTAGCCAGAT
CACTTAGGGTTCGTGAAATCTTCCGACTCCGTCTGCTGGTGAACCTCCGGTCTCACGCTCTGGTCGGACCCGTTTTGATCGGTCTA

6715

ADAM10

ADAM10-201

CTCATCTCCATAATAGTAATAATTATTATTTTTAATTAGCTGGGTGTGGTGTGATGAGCATCTGTAGTCTCAGTACTCTGGAG
GAGTAGAGGTATTATCATTATTAATAATAATAAAAAATTAATCGACCCACACCACTACTCGTAGACATCAGAGTCGATGAGACCTC

6800

ADAM10

ADAM10-201

GCTGAGACGAGAGGATTTCTTGAGCCCAGGTGGTTGAGGCTGCTGTGATCCATGATTGTGCCATGGCACCCAGCCCGGGCAGCA
CGACTCTGCTCTCCTAAAGAACTCGGGTCCACCAACTCCGACGACACTAGGTACTAACACGGTACCGTGGGGTCGGGCCCGTCTCGT

6885

ADAM10

ADAM10-201

GC GCGAGACCCTGTCTCTAAAAAAATTACACTTATTAGATATCCCAAGCCGTGGTAGTAGCAGGGCTAACCTAGCCCTAGAGTAG
C GCGCTCTGGGACAGAGATTTTTTAAATGTGAATAATCTATAGGGTTCGGCACCATCATCGTCCCGATTGGATCGGGATCTCATC

6970

ADAM10

ADAM10-201

AAGCTACTTCAGACCTGCCCTTCTAAGCAGAAAAACAAACCTCAAAAATGTCAAACCTGCTTTTCAAATAAATTAGCTGTCTGTC
TTCGATGAAGTCTGGACGGGAAGGATTCGTCTTTTTGTTGGAGTTTTTACAGTTTTGACGAAAAGTTTATTTAATCGACAGACAG

7055

ADAM10

ADAM10-201

AGAGAAAAGCTCAATAATATTTGTTAAAGGAGGACACTAAGTCCAGTTACTCAGCAGTATAACATTCAGTGTTCAGCATTCAAAG
TCTCTTTTCGAGTTATTATAAACAATTTCTCCTGTGATTCAGGTCAATGAGTCGTATATTGTAAGTCACAAGTCGTAAGTTTC

7140

ADAM10

ADAM10-201

AACATTACTAGATGACAAGAACTGAAAAACGTGATTTCATAATAAGGAGAAAAAGCCACCTAAATAGAAACACAACGTCTGTTAAT
TTGTAATGATCTACTGTTCTTTGACTTTTTGCACTAAGTATTATTCTCTTTTTCGGTGGATTTATCTTTGTGTTGCAGACAATTA

7225

ADAM10

ADAM10-201

TACAGATGTTAACAGGCAAGGACTTTAAAACAACCTATTATTAGTATGTTCAAAGAATTAAGACATGAACACAAAAAGGAGAGAA
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7310

ADAM10

ADAM10-201

TGGAAATTCATAAAGAACCAAATGGAACCTCTAGGGTGAAAAATATATTATCTGAGGTAAAAAATTTAGTGATAGGCTTAAA
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7395

ADAM10

ADAM10-201

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7480

ADAM10

ADAM10-201

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7565

ADAM10

ADAM10-201

ATTTCAATTCATGGTCCAAGAACTCAATGAAACACGTGCAGGATAAACACAAAGAAAACCATACCAGGGTATGTTACAATTTAA
TAAAGTTAAGTACCAGGTTCTTTGAGTTACTTTGTGCACGTCTATTTGTGTTTCTTTTGGTATGGTCCCATACAATGTTAATTT

7650

ADAM10

ADAM10-201

TTATTGGAACACCTGAAAATCATAAAAAACCATAAAAGCAGGCAGAGAAAAGGAGATACATTTACATACAGGGGAACAAAGATA
AATAACCTTTGTGGACTTTTAGTATTTTTGGTATTTTCGTCCGTCTCTTTCTCTATGTAATGTATGTCCCTTGTCTTCTAT

7735

ADAM10

ADAM10-201

AGTATAACTGGTGACTTCTCATTACACAGTACAAACTGGAAGACATAGAATAACATCTTCAAAGTGTTGACAGAAAACTGCCAA
TCATATTGACCACTGAAGAGTAATGTGTATGTTTGCCTTCTGTATCTTATTGTAGAAGTTTCACAACCTGTCTTTTGGACGGTT

7820

ADAM10

ADAM10-201

ACTAGGATTCTATATTCAGTGAAAAATAATTTCAAAAAACAAGGCAAATTAAGATCTTTTTAAATAAAAAATTGAGAGAATTTGTG
TGATCCTAAGATATAAGTCACTTTTTATTAAGTTTTTGTTCCGTTTAATTTCTAGAAAAATTTATTTTTAACTCTCTTAAACAC

7905

ADAM10

ADAM10-201

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7990

ADAM10

ADAM10-201

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8075

ADAM10

ADAM10-201

CTAAGTCCAAATAATAAGGTATAATGGATTTTGTAAATATACAGAGAATCAAAATTTATGACAGTAGTGCAAAGGACAAGAGAAAG
GATTCAAGGTTTATTATTCCATATTACCTAAAAACATTATATGTCTCTTAGTTTTAAATACTGTCATCACGTTTCTGTTCTCTTTC

8160

ADAM10

ADAM10-201

AAGAATAGAAGTATGTTTCTTAAACAATTTGTGAAGTGATGTAATTTTGACAGGTAAACTGTGCCGTGATAAAGATGGATATTGT
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8245

ADAM10

ADAM10-201

AAACCGTAGAGCCGGGGTCAGCAAACACTACGGCCTGTGGGCCAGATGTTTTGCTTTTTGTAAGTAAAGTTTTATTAGAACACAGCCAC
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8330

ADAM10

ADAM10-201

ACCTATTCATTGATAGGTTGTCTATGGCTGCTTTTACATTATAGTGGCAGAATTGAAGAGTTGTGATAGAGAACAACACTACATGTT
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8415

ADAM10

ADAM10-201

GTTCAAAAGTCTAAATGTTTACTATTAGGCCTTTTCAGAAAAAGTTTGCAGGAATTTCTCTGCCCCTTGGAGCAACCATTGAAAA
CAAGTTTTTCAGATTTACAAATGATAATCCGGAAAAGTCTTTTTCAAACGTCCTTAAAGGAGACGGGAACCTCGTTGGTAACTTTT

8500

ADAM10

ADAM10-201

AAGAAGAGGAAATAATTTAACATGTTAATAAAAATAAATCAAATGTATTTAAAAACAGTTAAGAGAAGTTAGGAAGAAGAGAAAA
TTCTTCTCCTTTATTAATTTGTACAATTATTTATTTAGTTTACATAAATTTTTGTCAATTCTCTTCAATCCTTCTTCTCTTTTT

8585

ADAM10

ADAM10-201

GGAACAAAAAACTGATGGGATAAATAGAAAAATAATAGCAAAGGTGGTAAGTTTTAAATCTAACCATATTGATGACTGCATTAATA
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8670

ADAM10

ADAM10-201

TAAATGGACTGCTGAGGTGTGAAGATTGCTTGAGGCCAAGAGTTCAAGACCAACCTGGCCAACACAGCGAGACCCTGTCTCAATT
ATTTACCTGACGACTCCACACTTCTAACGAACTCCGGTTCTCAAGTTCTGGTTGGACCGGTTGTGTCGCTCTGGGACAGAGTTAA

8755

ADAM10

ADAM10-201

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8840

ADAM10

ADAM10-201

TGAGCGTAAAAGAAATGCAATTTAAATGAAAAGACACAGTTT




















ACTCGCATTTTCTTTACGTTAAATTTACTTTTCTGTGTCAAA

3'

8882

5'



Feature	Location	Size		Type
✓ ADAM10	1 .. 8882	8882 bp	 →	gene
/note	= gene ENSG00000137845 Protein coding			
✓ ADAM10-201	1 .. 8882	8882 bp	 →	prim_transcript
/note	= primary transcript ENST00000260408			
ADAM10-202	1 .. 8882	8882 bp	 →	prim_transcript
/note	= primary transcript ENST00000396136 Nonsense mediated decay			
ADAM10-203	1 .. 8882	8882 bp	 →	prim_transcript
/note	= primary transcript ENST00000402627			
ADAM10-213	1 .. 8882	8882 bp	 →	prim_transcript
/note	= primary transcript ENST00000558733 protein_coding_CDS_not_defined			
ADAM10-214	1 .. 8882	8882 bp	 →	prim_transcript
/note	= primary transcript ENST00000559053			
ADAM10-217	1 .. 8882	8882 bp	 →	prim_transcript
/note	= primary transcript ENST00000561288			
ADAM10-204	1 .. 4107	4107 bp	 →	prim_transcript
/note	= primary transcript ENST00000439637			
ADAM10-211	1 .. 4101	4101 bp	 →	prim_transcript
/note	= primary transcript ENST00000497846 protein_coding_CDS_not_defined			
ADAM10-212	1 .. 4071	4071 bp	 →	prim_transcript
/note	= primary transcript ENST00000558004			
✓ ADAM10-201	4056 .. 4156	101 bp	 →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000260408			
/translation	= YPHKYGPQGGCADHSVFERMRKYQMTGVVEVTQ 33 amino acids = 3.8 kDa			
ADAM10-204	4056 .. 4107	52 bp	 →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000391930			
/translation	= YPHKYGPQGGCADHSV 17 amino acids = 1.7 kDa			
ADAM10-212	4056 .. 4071	16 bp	 →	CDS
/codon_start	= 1			
/note	= coding sequence ENSP00000452704			
/translation	= YPHK 5 amino acids = 543.6 Da			
✓ Donor Template WT -> SNV	4080 .. 4179	100 bp	 ⇌	misc_feature
✓ Protospacer Sequence	4098 .. 4117	20 bp	 ⇌	misc_feature
✓ SNV	4112 .. 4112	1 bp	 ⇌	misc_feature
/note	= WT = A SNV = G			
✓ PAM	4118 .. 4120	3 bp	 ⇌	misc_feature
	8883 .. 10,184	1302 bp	 ←	gene
/note	= gene ENSG00000259250 lncRNA			
	8883 .. 10,184	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	3446 .. 3470	59°C	Jan 18, 2023
✓ Donor Template WT -> SNV /sequence = CAAGCTAGTGTTAAAATCCTTACCTGTGTTACTTCCTCTACACCAGTCATCTGGTATTTCTCATTCTTCAAATACTGAATGATCTGCACA 63% GC / 730,408.8 Da	100-mer	4080 .. 4179	72°C	Jan 18, 2023
✓ gRNA Protospacer /sequence = ATTCAGTATTTGAAAGAATG 25% GC / 6179.1 Da	20-mer	4098 .. 4117	46°C	Jan 18, 2023
✓ Sanger Sequencing /sequence = TCCCCACAGTGGTGTTAAGTC 52% GC / 6397.2 Da	21-mer	4251 .. 4271	58°C	Jan 18, 2023
✓ PCR Reverse /sequence = ATGAGGAATACCTTGGCAAACCAAG 44% GC / 7708.1 Da	25-mer	4475 .. 4499	59°C	Jan 18, 2023