

INK2J00040R_ADAM10_R181G_A04_AA
8115 bp

5'
3'

GGATGAAATAACTACTAAGGACCAAAAAATCTTGCTCTGTTGCCTGAGCTCTAGAGAGGGGGCATTGGAAACAAGACAAGCAAA
CCTACTTTATTGATGATTCCTGGTTTTTTAGAACGAGACAACGGACTCGAGATCTCTCCCCGTA AACCTTTGTTCTGTTTCGTTT

85

ADAM10 >

ADAM10-201 >

ATACCCAAAGAATTTTAATTTAAGCTAGTAGCATATACAGCATGTACATTCTCTCTCCTCCAAGCTGATAATACAACCTTAGGTGT
TATGGGTTTCTTAAAATTAATTCGATCATCGTATATGTCGTACATGTAAGAGAGAGGGAGGTTTCGACTATTATGTTGAATCCACA

170

ADAM10 >

ADAM10-201 >

AATCTCCTAGAATTTTTCTGACCTCACAGTTCTGGGTATCCTCTCTTTACTGCTGTTTATGTGTTGATAAGTCTTCCCTATCT
TTAGAGGATCTTAAAAAAGGACTGGAGTGTCAAGACCCATAGGAGAGAAATGACGACAAATACACAACCTATTTCAGAAGGGATAGA

255

ADAM10 >

ADAM10-201 >

TTTGAATCCAGTGGTTTACTGGTCATTGATCATATGACTGACCTTTGAGAGGCATGGAAGGAAACCAGCTGTTGACTGGATGAGT
AAACTTAGGTCACCAAATGACCAGTAAGTAGTATACTGACTGGAACTCTCCGTACCTTCTTTGGTCGACAACCTGACCTACTCA

340

ADAM10 >

ADAM10-201 >

AAATTAAATTC AACCCAGTGTTTAATAAACTGTGGATGATTGCCGGGAGACCTTAACACTTGGGAAGTTGGTACTTAAATGCCATG
TTTAATTTAAGTTGGTCACAAATTTTGGACACCTACTAACGGCCCTCTGGAATTGTGAACCTTCAACCATGAATTTACGGTAC

425

ADAM10 >

ADAM10-201 >

CTTGTTTACATGTCAGACACCTCAGCTAGACTGACAGCTCTTGAGAGTGCATGTTCTATGTCATTTATTTTTGTATCCCTTTGTT
GAACAAATGTACAGTCTGTGGAGTCGATCTGACTGTGAGA ACTCTCACGTACAAGATACAGTAAATAAAAAACATAGGGAAACAA

510

ADAM10 >

ADAM10-201 >

TGGTATATAATAATTTTTCTTAATTGTTTGCTTAATAAATTAATGCAGTTAAAAATAACATTGACATATGATTAGGAGATTTATG
ACCATATATTATTA AAAAGAATTAACAAACGAATTATTTAATTACGTCAATTTTTATTGTA ACTGTATACTAATCCTCTAAATAC

595

ADAM10 >

ADAM10-201 >

TGTACACAGCTGTTAATTTTTGAATGTTCTGTATGTTATAGTCAATCTGTAAAGCAGTTAGGAATTTAGAACACACTTTGCCGTAG
ACATGTGTCGACAATTA AAACCTTACAAGACATACAATATCAGTTAGACATTTTCGTCAATCCTTAAATCTTGTGTGAAACGGCATC

680

ADAM10 >

ADAM10-201 >

AAACAATTTAAAGTGTTAGACAATTCCTCTTTATTGTAGGTGGAATGAAGGCTAAAAGGAGGTTATGGGAGCCAGCAGTTTATAG
TTTGTTAAATTTT CACAATCTGTTAAGGAGAAATAACATCCACCTTACTTCCGATTTTTCTCCAATACCTCGGTCGTCAAATATC

765

ADAM10 >

ADAM10-201 >

GTCTTTGGTTAATGGATGACCTTTGAAAAGAGGCATAGAAACCACATACTGGCTGAAAAATTAATTTCAACAAGTATTTATTGGT
CAGAAACCAATTACCTACTGGAACTTTTTCTCCGTATCTTTGGTGTATGACCGACTTTTTAATTTAAGTTGTTTCATAAATAACCA

850

ADAM10 >

ADAM10-201 >

TTGTGAATATACAGGAAAGAGAATTTTAAAATTTCCCTGAAGATTAACAACTTCAGGGGAATTTTCAGTAATAGAGAGTCAAA
AACACTTATATGTCCTTTCTCTTAAAATTTTAAAGGGGACTTCTAATTTTGGAAAGTCCCCTTAAAAGTCATTATCTCTCAGTTT

935

ADAM10

ADAM10-201

ATGTGGTAAATGCTATAACAAAAATGTTATCAAAGCCCTGGGGTAGTGCATACTACCTCAGTGAGGGAGCTTTAGGGAGATTTAG
TACACCATTTACGATATTGTTTTACAATAGTTTCGGGACCCCATCACGTATGATGGAGTCACTCCCTCGAAATCCCTCTAAATC

1020

ADAM10

ADAM10-201

GAAGACTTCCCTGGGGAGGTGGAATTTGACTTGAACCTTGAAGATAAGGGGTAGACTTTTGATTGCTAGAGGAGAGAATCTGTGA
CTTCTGAAGGGACCCCTCCACCTTAAACTGAACTTGAACCTTCTATTCCCCTCTGAAAACCTAACGATCTCCTCTCTTAGACACT

1105

ADAM10

ADAM10-201

TCACAGGAGAAGCCTCAGCCCTATTACTCTGGCTGCAACAATATTTCTTTTCAGTTGTCACAGCTTGGGAACTAAAGAAAGGAAA
AGTGTCTCTTTCGGAGTCGGGATAATGAGACCGACGTTGTTATAAAGAAAAGTCAACAGTGTGCAACCCCTTGATTTCTTTCTTT

1190

ADAM10

ADAM10-201

AGAGATTCGCATGTTCTTTGGCCTAGTCACCCATTCACCCCTGTGTATAGCTGTATAGTCCCAAGTCAAATACACGTAAATAATG
TCTCTAAGCGTACAAGAAACCGGATCAGTGGGTAAGTGGGGACACATATCGACATATCAGGGTTCAGTTTATGTGCATTTATTAC

1275

ADAM10

ADAM10-201

GTCACCTAAAGTTAGTATGTTACAAGTTTTTCATTCCAAGTGTGAGTTGTAAGTTTTACAGGTTTAACTGATTAATTTGTTAA
CAGTGAATTTCAATCATAAATGTTCAAAAAGTAAGGTTTACAGTCAACATTCAAAATGTCCAAATTGTTGACTAATTAACAATT

1360

ADAM10

ADAM10-201

TAAACATTTTTGAGTGCCTAATCTGTACAAGACACTTTTAGAACTATCCATACAATAATGAATAGGGCAAAGGTTCTGCCTTA
ATTTGTAATAAACTCACGGATTAGACATGTTCTGTGAAAATCTTTGATAGGTATGTTATTACTTATCCCGTTTTCCAAGACGGAAT

1445

ADAM10

ADAM10-201

AACACTTTAGAGTCTAGTAATTTCTGTTTGTGATTGATCAGAATAATAAGCAACATTTCTCTGGTTGACCTGACTCCCATTATCC
TTGTGAAATCTCAGATCATTAAAGACAAACAGTAACTAGTCTTATTATTTTCGTTGTAAGAGACCAACTGGACTGAGGGTAATAGG

1530

ADAM10

ADAM10-201

TTTGGCTGCCAATAGTAACCCTTTCTTTCTAAAACCCATGGGGTGAGAAGGGACATGTCTGGCCCTCTTCTCATCTCTGTTTCC
AAACCGACGTTATCATTGGGAAAGAAAGATTTTGGGTACCCCACTCTTCCCTGTACAGACCGGGAGAAGGAGTAGAGACAAAAGG

1615

ADAM10

ADAM10-201

AGAGAGATCAGTGTGAGTGTGTTGTTGAAAGTGGGGTCAATTTCAACTTCTCCTCTTTCTAGGGACAATCACTCTGTGCTTT
TCTCTTAGTCACAACACTCACGAACACCTTTACCCCAAGTAAAAGTTGAAGGAGGAGAAAAGATCCCTGTTAGTGAGACACGAAA

1700

ADAM10

ADAM10-201

TCTTATGCCCACTTACCCTCCCAAAACAGAAATTAGACATGGGGATTGGGAAGACATGAGAATTGGTACCCGGGAGAAACGGCCT
AGAATACGGGTGAATGGGAGGGTTTTGTCTTTAATCTGTACCCCTAACCCCTTCTGTA CTCTTAACCATGGGCCCTCTTTGCCGGA

1785

ADAM10

ADAM10-201

CCCATCCACTGGAATTAGGAGGAAGAACATTTGGAGTTCTTTCTGTCTCCAACTTTTTCA TTTCTTCTCAAAGAAAAAAAAA
GGGTAGGTGACCTTAATCCTCCTTCTTGTA AACCTCAAGAAAGGACAGAGGTTTGAAAAGTAAAGAAGAGTTTTCTTTTTTTTTT

1870

ADAM10

ADAM10-201

AAGCCTATCCTTTCTTCTACTCTCCATCAGTGAATCCTTGTTGATGTAGGCAACTTTGGGAATAAATGACGATTTTCATGGACAA
TTCGGATAGGAAAGAAGATGAGAGGTAGTCACTTAGGAACAAC TACATCCGTTGAAACCCCTTATTTACTGCTAAAAGTACCTGTT

1955

ADAM10

ADAM10-201

GGCCCCACCTCATGATACTCTGGATACTAACAAAAATAATTTTTATGCATAATAATATTATTCTATAGAAGTCATTCTATTTTA
CCGGGGGTGGAGTACTATGAGACCTATGATTGTTTTTATTAAAAATACGTATTATTATAATAAGATATCTTCAGTAAGATAAAAT

2040

ADAM10

ADAM10-201

AATTCAATTAATGCAGATTTTTAAAAATTGGCTTTGGTGATTCATGGCATATTATTGGAGGGATTACCATCCAGTTTTGACTATT
TTAAGTTAATTACGTCTAAAAATTTTTAACCGAAACCACTAAGTACCGTATAATAACCTCCCTAATGGTAGGTCAA AACTGATAA

2125

ADAM10

ADAM10-201

AGAGGGTCATCTCATAGCCAAGGCCTTGGATGTTTGCAGTTAAGTTTCTGAGCTGCTAGTCACATAAGGCTGAGGGGTACCCTGT
TCTCCAGTAGAGTATCGGTTCCGGAACCTACAAACGTCAATTCAAAGACTCGACGATCAGTGATTCCGACTCCCCATGGGACA

2210

ADAM10

ADAM10-201

TGGAGGTAGTGAGGGTGCAAAAAGTGAGTATTTTATGCCTAGTTCTGTTGACAGAGAATCTGAACTGTAAATATTCCTCCTTGAA
ACCTCCATCACTCCCACGTTTTTCACTCATAAAATACGGATCAAGACAAC TGTCTCTTAGACTTGACATTTATAAGGAGGAACTT

2295

ADAM10

ADAM10-201

AGAGTGGATGATTGAGAGTTAACTAGAGCTATTTCTGCTTGAGTTAGAGTCACAATATATGTA CTATTTTATTTGTGTCTTGA
TCTCACCTACTA ACTCTCAATTGATCTCGATAAAGGACGAAC TCAATCTCAGTGTTATATACATGATAAATATAAACACAGA ACT

2380

ADAM10

ADAM10-201

ACAACAAAAACAAAAGCAAGAGGCTGGCAGAGGAACTGGAAGAAAGGCAATAGATCTAAAGCTGATCTTTGTTTTAAATAGGCCGA
TGTTGTTTTGTTTTCGTTCTCCGACCGTCTCCTTGACCTTCTTTCCGTTATCTAGATTTGACTAGAAAACAAAATTTATCCGGCT

2465

ADAM10

ADAM10-201

ATATTCTACACCCATGACTCATTGTTTGTGAAAGAATATGCTGTTTGGCCTTTTTCAGGGGAACTACAGTGCATCCTATGATTTAG
TATAAGATGTGGGTACTGAGTAACAAACACTTTCTTATACGACAAACCGGAAAAGTCCCCTTGATGTCACGTAGGATACTAAATC

2550

ADAM10

ADAM10-201

CATCTCAATGAGGGCTTATTCATTAGTTGAACAAAGGCTTTTTCTAGAAATGAGGATTATATTGTTAGTAATTTTAGAGGGAAAA
GTAGAGTTACTCCCGAATAAGTAATCAACTTGTTTTCCGAAAAAGATCTTTACTCCTAATAATAACAATCATTAAAAATCTCCCTTTT

2635

ADAM10

ADAM10-201

TGTCATTGTCCATTTTTATAGTTAATGTGGTGTCCAAGGAAAACAGCATCTTTTAGAAATTTTGAAAGTATATGGGAAAAATTGC
ACAGTAACAGGTAAAAATATCAATTACACCACAGGTTCTTTTGTCTGATAGAAAATCTTTAAAACTTTTCATATACCCTTTTTAAACG

2720

ADAM10

ADAM10-201

ATGCTTGACCCCTTTCTATTGGGAGAGTTTTGTGCTGACAGAATTTGAAGCATATATAAACTGTTTTGTTGCTTTGGAAATATT
TACGAACTGGGAAAGATAACCCTCTCAAAACACGACTGTCTTAACTTCGTATATATTTATGACAAAACAACGAAACCTTTATAA

2805

ADAM10

ADAM10-201

TGGAAATTTTTTTTACCCTAAGTTTTCAAGCTTTCAAAAGGAATTTATATTTTTAATTCGTGATATATAAAATTCAGTTTGCGAAG
ACCTTTAAAAAAAATGGGATTCAAAGTTCGAAAGTTTTCTTAAATATAAAAAATTAAGCACTATATTTTTAAGTCAAACGCTTC

2890

ADAM10

ADAM10-201

AAATAAAACACTAATTCTTTTAAATCCCAATGTTTTAAGTAACAATGTAATAAATGTTTTTTTTGTTCCCTATACATT
TTTATTTTGTGATTAAGAAAATTTTAGGGTTACAAAATTCATTGTTACATGATTTATTTACAAAAAAAACAAGGGGATATGTAA

2975

ADAM10

ADAM10-201

AATAACCAATGGTAAGTGAGTTTTAGGGTTTTGACGAAAGATTTTAAAGGTCACAGAACAGTTGTAATTTTTTCCCATTGATTA
TTATTGGTTACCATTCACTCAAAATCCAAAACCTGCTTTCTAAAATTTCCAGTGTCTTGTCAACATTAAAAAAGGGGTAACATAAT

3060

ADAM10

ADAM10-201

TTAAGATCATTTTGCATAGTTTCAGCTTGCATGGTCAGTTTTATGACTGGCACTTACTGGTGTGGCAAAGCAAGGACTGCCTGGT
AATTCTAGTAAAACGTATCAAAGTCGAACGTACCAGTCAAATACTGACCGTGAATGACCACACCGTTTTCGTTCCTGACGGACCA

3145

ADAM10

ADAM10-201

GTTAACTAGGTGAATGAAATTGAGAATAGACTCTGGAAATTCAGTTGCTAGCTGGCATTAAAGGAACTGCTTGAGGTTATAGATCA
CAATTGATCCACTTACTTTAACTCTTATCTGAGACCTTTAAGTCAACGATCGACCGTAATTCCTTGACGAACTCCAATATCTAGT

3230

ADAM10

ADAM10-201

TGACTTTTGAATGAGACTGGAATTAAGTTTCTTTAGCCTCATTGAGCTTCAGGAGGAGCTTCTCTCTTTCATAGTTACACT
ACTGAAAACCTTACTCTGACCTTAATGATCAAAAAAGAAATCGGAGTAAGTCGAAGTCTCCTCGAAGAGAGAAAAGTATCAATGTGA

3315

ADAM10

ADAM10-201

TCTGAAGTAAGTAAGACACCCTGCATTCACCATCAACTCCCTTCAGGGGCGTTGGGGTGGAGCACAAAGGGAGTTGATGGTGAAT
AGACTTCATTCAATCTGTGGTGACGTAAGTGGTAGTTGAGGGAAAGTCCCGCAACCCACCTCGTGTTCCTCAACTACCACTTA

3400

ADAM10

ADAM10-201

GCAGTGGTGTAAATTATAATAATAATTGACTGTGGGATTTAAACTGAATAAGGAAGAGAAAAGAATATCTGGTGTAGACAATAAGG
CGTCACCACATTAATATTATTATTAAGTACACCCCTAAATTTGACTTATTCCTTCTCTTTCTTATAGACCACTATCTGTTATTCC

3485

ADAM10

ADAM10-201

TGGTAGCATTGGTGGATTAAAGGGTCTCACTGATGTTAAAGGGTTGATGGAACCTAGAGGGAATGTGCTGAAAAGATAAGTGGTG
ACCATCGTAACCACCTAATTTCCAGAGTGACTACAATTTCCCAACTACCTTGGATCTCCCTTACACGACTTTTCTATTACCAC

3570

ADAM10

ADAM10-201

GAAAGAAAGTAGAATACTAGAAGTTGAGATTATGAAGTGCTTTTCAGTTATCAATAGTGACAAGTTCAGAAGAGTAACTATGGAAA
CTTTCTTTCATCTTATGATCTTCAACTCTAATACTTCACGAAAGTCAATAGTTATCACTGTTCAAGTCTTCTCATTGATACCTTT

3655

ADAM10

ADAM10-201

TGAGAAACTGAGGTAGGAAAAAATCATTGGAGAAAAGAACTGAGTGAGTGGAAGGATCATCGTCATGAATGATGAATGATGATG
ACTCTTTGACTCCATCCTTTTTTAGTAACCTCTTTTCTTGACTCACATCACCTTCCTAGTAGCAGTACTTACTACTTACTACTAC

3740

ADAM10

ADAM10-201

PCR Forward

A

AATGAATGATGAATGATGTCATCAGTCATGATGATGAGGTGGTGTGTCAGAGAGACTGACAGTAAGTCAGGATCTAAAAATAAGGAA
TTACTTACTACTTACTACAGTAGTCAGTACTACTACTCCACCACAGTCTCTCTGACTGTCATTTCAGTCTTAGATTTTTTATTCTTT

3825

ADAM10

ADAM10-201

PCR Forward

ATAAGGGCAGTAATGACTTGGGTG

ATAAGGGCAGTAATGACTTGGGTGACAACAAATGCCTGTAATAAGTTGGGGTAGTCAGTGATACAGTCACGTAAGTGTAAACTG
TATTCCCGTCATTACTGAACCCACTGTTGTTTACGGACATTATTCAACCCCATCAGTCACTATGTCAGTGCATTGACATTTTGAC

3910

ADAM10

ADAM10-201

AGCTACTATGAGAATAGTCTTAATGGTCCTAAGGGAGAAAGTGGTAGATAGTTGTGTTTTGTGAAATGAGGGGTGGGGAGTATCT
TCGATGATACTCTTATCAGAATTACCAGGATTCCCTCTTTCACCATCTATCAACACAAAACACTTTACTCCCACCCCTCATAGA

3995

ADAM10

ADAM10-201

TCCAAGAGTAGGAAGAGTTTTGGGGTTCTCTTTTATATTTGCTAGAGTCTCCTGATGGAGCTCAGGAATACTGCAGAAGGATT
AGGGTTCTCATCTTCTCAAACCCCAAGAGAAAATATAAACGATCTCAGGAGGACTACCTCGAGTCTTATGACGTCTTCCTAA

4080

ADAM10

ADAM10-201

CTCTTGACCCCTGCCAGATGATGGTCCAGAAACATAGATATTCTCTTGGTGACAGCCGAATGCAATATATTGGTGATAGGGTCAG
GAGAACTGGGGACGGTCTACTACCAGGTCTTTGTATCTATAAGAGAACCCTGTGCGGCTTACGTTATATAACCACTATCCCAGTC

4165

ADAM10

ADAM10-201

AATAATGAGTGGTTATTGCCCTTTTTTAGAATTCACAAATCATCTATATGACAAAAAGCTAAAGACCAGTGGTTTTTATTGAGGG
TTATTACTCACCAATAACGGGAAAAAATCTTAAGTGTTTTAGTAGATATACTGTTTTTCGATTTCTGGTCACCAAAAAATAACTCCC

4250

ADAM10

ADAM10-201

AGAGCTTAGGAACCTGCTAGGTTTTAGCATTAAAATGCCTAGCATAATGCCTTTTTCCATAGGTGCTTAATAAGCATTATGGTTT
TCTCGAATCCTTGGACGATCCAAAATCGTAATTTTACGGATCGTATTACGGAAAAGGTATCCACGAATTATTCGTAATAACAAA

4335

ADAM10

ADAM10-201

TCATTAGTTAAGACAGTTAAATTTTTACTTGTAAATCTCATTTATAATTGGTTATACCTAAATGTGTGATAGTAATGACGTTTTCT
AGTAATCAATTCTGTCAATTTAAAAATGAACATTAAGAGTAAATATTAACCAATATGGATTACACACTATCATTACTGCAAAGA

4420

ADAM10

ADAM10-201

gRNA Protospacer

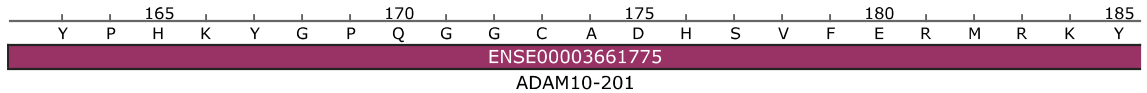
ATTCAGTATTTGAA GGAATG

TCTTTGTATTTAGACTATCCCCATAAATACGGTCCTCAGGGGGGCTGTGCAGATCATTAGTATTTGAAAGAATGAGGAAATAC
AGAAACATAAAATCTGATAGGGGTATTTATGCCAGGAGTCCCCCGACACGTCTAGTAAGTCATAAACTTCTTACTCCTTTATG

4505

ADAM10

ADAM10-201



Donor Template SNV -> REV

Protospacer Sequence

PAM

SNV

TCCCCCGACACGTCTAGTAAGTCATAAACTTTCTTACTCCTTTATG

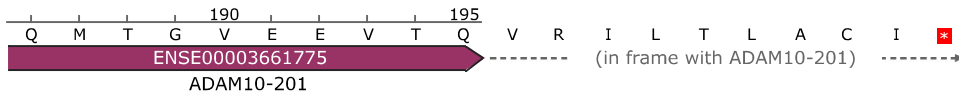
Donor Template SNV -> REV

CAGATGACTGGTGTAGAGGAAGTAACACAGGTAAGGATTTTAACTAGCTTGCATTTAGGAAATGGAAATGAATTTGAGGATGT
GTCTACTGACCACATCTCCTTCATTGTGTCCATTCTAAAATTGTGATCGAACGTAAATCCTTTACCTTTACTTAAACTCCTACA

4590

ADAM10

ADAM10-201



Donor Template SNV -> REV

GTCTACTGACCACATCTCCTTCATTGTGTCCATTCTAAAATTGTGATCGAAC

Donor Template SNV -> REV

ATATCTACATTTAAAATATATGTTCTAGGATTTCTGAAAGACTTAAACACCACTGTGGGGAATGTTTTTAAATGCTCAAAGAGGCC
TATAGATGTAAATTTATATACAAGATCCTAAAGACTTTCTGAATTGTGGTGACACCCCTTACAAAAAATTACGAGTTTCTCCGG

4675

ADAM10

ADAM10-201

CTGAATTGTGGTGACACCCCT

Sanger Sequencing

AGGTAACGTGCCAATAATAAAGAGATAGGACTGAGGTTTGAATACAAATATATGTGACCCAAAAGACATTACAAGTCTAAAATAT
TCCATTGCACGGTTATTATTTCTCTATCCTGACTCCAAACTTATGTTTATATACACTGGGTTTTCTGTAATGTTTCAGATTTTATA

4760

ADAM10

ADAM10-201

ACTATCCTTTACATGTTTTGTTATAAAGAAAACAAATGTTTTATATAAATGTAAATATTTTTATTAGCATTAAAATTAGAGTGA
TGATAGGAAATGTACAAAACAATATTTTCTTTTGTGTTACAAAATATATTTACATTTATAAAAAATAATCGTAATTTTAATCTCACT

4845

ADAM10

ADAM10-201

CCACTTGCCTTGGTTTGCCAAGGTATTCTCATTTTTAACTGAAACGTTGTGTGTCAGCAGACAATCTGGTTGGTCATGTTAAT
GGTGAACGGAACCAAACGGTTCCATAAGGAGTAAAAATTGTGACTTGCAACACACAGTCGTCTGTTAGACCAACCAGTACAATTA

4930

ADAM10

ADAM10-201

GAACCAAACGGTTCCATAAGGAGTA
PCR Reverse

AAAAATCTCAGGACTTTTCGTATTTAATTATTTTTTTCCCTTCTTTTTCTTTAGTCATAGGTGACAGGTTATAGTTATTCAAA
TTTTTAGAGTCTTGAAAAGCATAAAATTAATAAAAAAAGGGAAGGAAAAGAAATCAGTATCCACTGTCCAATATCAATAAGTTT

5015

ADAM10

ADAM10-201

ACATAAGTTCAAAATGAGAAAACATTTTTCTTTTATGATAAACATTTATCATATATTTTGGACATCCTTTCTAAAAGTAGTAT
TGTATTCAAGTTTTACTCTTTTGTAAAAAAGAAAATACTATTTTGTAAATAGTATATAAAACCTGTAGGAAAGATTTTCATCATA

5100

ADAM10

ADAM10-201

GGTAGAGTTATGTTTCTTGAGCCATGAATATTTGTATTTCAGATCTATTCTTTGATCTGTAAAATGGCATAAACAATTCTGTTTCA
CCATCTCAATACAAAAGAACTCGGTACTTATAAACATAAGTCTAGATAAGAACTAGACATTTTACCGTATTTGTTAAGACAAAAGT

5185

ADAM10

ADAM10-201

GGTGGGTCTTTCTAGTGTTAAGTGAGATTTTTATTCTTATATGTATTGAAGAAGTACATATTGATCTTCTGCCATATGTCAGAGAC
CCACCCAGAAAGATCACAATTCCTCTAAAATAAGAATATACATAACTTCTTCATGTATAACTAGAAGACGGTATACAGTCTCTG

5270

ADAM10

ADAM10-201

TGTGGAAAGTTCTGGGAATATGTGGAGATTAAGATGAAGGCTATTCTCAAAAGGTTATCGTTTTAATTGGAGACACAGAGAAACAA
ACACCTTTCAAGACCCTTATACACCTCTAATTCTACTTCCGATAAGAGTTTTCCAATAGCAAATTAACCTCTGTGTCTCTTTGTT

5355

ADAM10

ADAM10-201

TTTAGAGTAGTAGGAGAGGGTTAAGTATAGGATGATATTCTACACACAAGAGGAATAGCTAATCTAGCCTTATAAGTATTTGAAG
AAATCTCATCATCCTCTCCAATTCATATCCTACTATAAGATGTGTGTTCTCCTTATCGATTAGATCGGAATATTCATAAACTTC

5440

ADAM10

ADAM10-201

GCAATAATCAGACCTTAAGAATAAGTAGGAGTTAGGTTAGCCATGAGGATATGGAAAAGACTATTCCAAGCAGGAGGAACAGTACA
CGTTATTAGTCTGGAATTCCTTATTCATCCTCAATCCAATCGGTA CTCTATACCTTTCTGATAAGGTTTCGTCTCCTTGTCTATGT

5525

ADAM10

ADAM10-201

TACAAAGGCCAAGGAGACAGAAAGATCAGTAAAGAATTTTTAACATGAGGGTAGAGTTTAAAGAGTAGATTTTAGGAGACTAATGA
ATGTTTCCGGTTCCTCTGTCTTTCTAGTCATTTCTAAAAAATTGTA CTCCCATCTCAAATTCCTCATCTAAAAATCCTCTGATTACT

5610

ADAM10

ADAM10-201

GAAGTTGTTGTAGTTATTCAGTTGAGAAGTGATAGTGGCCTGTA CTAAATGATTGGCAATTTGGATAGAGGGGTTGAGATTATAG
CTTCAACAACATCAATAAGTCAACTCTTCACTATCACCGGACATGATTACATAACCGTTAAACCTATCTCCCAACTCTAATATC

5695

ADAM10

ADAM10-201

ACTGTTAGATATGATAGAATTTAGCATGGTGCTTGATAAAAATATTAATATACAAAAGTAGGTTGCATTTATTTATACCACGAGTA
TGACAATCTATACTATCTTAAATCGTACCACGAAC TATTTTATAATTATATGTTTTTCATCCAACGTAAATAAATATGGTGCTCAT

5780

ADAM10

ADAM10-201

GACTACCAGAAATATAATGAAAGGGTGGACATTGTTAATAATGTCAGAGAATATTATATATTATAGAATAAATGTAACAAAGAAT
CTGATGGTCTTTATATTACTTTCCACCTGTAACAATTATTACAGTCTCTTATAATATATAATATCTTATTTACATTGTTTTCTTA

5865

ADAM10

ADAM10-201

TATAAGACCTATGTAAGGAAAATCAAACTTTATAAAAATATTAAGGAAGATTGATTTTTAAATGAATGGAGAGATATACCATATT
ATATTCTGGATACATTCTTTTAGTTTTGAAATATTTTTATAATTCCTTCTAACTAAAATTTACTTACCTCTCTATATGGTATAA

5950

ADAM10

ADAM10-201

AATGGGAAATAATAATATTATAAAATTATCAGTTCTCCCTTTATTGATTTGTAGATTCAATGGTAGTCCAATACACATTACAACA
TTACCCTTTATTATTATAATATTTAATAGTCAAGAGGGAAATAACTAAACATCTAAGTTACCATCAGGTTATGTGTAATGTTGT

6035

ADAM10

ADAM10-201

GGCTTATTCACAACACTCAATGGGTCAAAAATGTTATATGGAAAAGTAAGGACTAAGAAGAAGTAGGGCCCATTTAAAGACGATG
CCGAATAAGTGTTGTGAGTTACCCAGTTTTTACAATATACCTTTTCATTCTCTGATTCTTCTTCATCCCGGGTAAATTTCTGCTAC

6120

ADAM10

ADAM10-201

AACAGGAAAAGAGGGAAAAGAGGGATTTACCCTAGGAGGTATTAAGACTTGCTATAATAATTGAGAGTGTGATAGCACAAAGGATGGA
TTGTCTTTTCTCCCTTTCTCCCTAAATGGGATCCTCCATAATTCTGAACGATATTATTAACCTCTCACACTATCGTGTTCTTACCT

6205

ADAM10

ADAM10-201

CAAATTAAGTACGCGAATAAAAATGAGTGCTTAGAAAAAGACCCATGCGTATATGAACTTTGTTATGTGGTAGAGATGCAATCT
GTTTAATTGATCGCCTTATTTTTACTCACGAATCTTTTTCTGGGTACGCATATACTTTGAAACAATACACCATCTCTACGTTAGA

6290

ADAM10

ADAM10-201

CAAATTAGTAAGGAAAAGTGAGGACCATTGAATAAATGGATCCAGAAAAAATGTTTATCTATTTGAAAAAAGATGAAGTTGGAT
GTTTAATCATTCTTTTCACTCCTGGTAACCTTATTTACCTAGGTCTTTTTTTTACAAAATAGATAAACTTTTTTCTACTTCAACCTA

6375

ADAM10

ADAM10-201

CACCATCCTACAACAATAAAGTCCAGGCTGTAAATGAAGTCCATATTTACAACAAAAAAGTCTAGATGGATTGAAGTTTTAAATG
GTGGTAGGATGTTGTTATTTTCAAGGTCGACATTTACTTCAGGTATAAATGTTGTTTTTTCAGATCTACCTAACTTCAAAATTTAC

6460

ADAM10

ADAM10-201

TCTAAAATGAAAACCTTTGAACTTGTAGATTTCCCTTTCAAGCTGTGATAGAGTAACTGATATCTAACTAGGCTTTCTACAACAA
AGATTTTACTTTTGAACCTTTGAACATCTAAAGGGAAAGTTCGACACTATCTCATTGACTATAGATTGATCCGAAAGATGTTGTT

6545

ADAM10

ADAM10-201

ACAAC TAGAAAAACCAAACAAAATATTTCAAACAATTATTTTCAAACATTAGAAAAACAAGCATTGCAGGATTGATATCTGAGTGAG
TGTTGATCTTTTGGTTTGTATATAAAGTTTGTAAATAAAGTTTGTAAATCTTTTGTTCGTAACGTCCTAACTATAGACTCACTC

6630

ADAM10

ADAM10-201

GAAATAAATATCTCTGTGATTTCCCTGCCTTCTTGGCTGGAGTCGAAATTTAGATATGACACACAGAAGGAGATCTCAAGAAGG
CTTTATTTATAGAGACACTAAAGGGACGGAAGAACCGACCTCAGCTTTAAAGTCTATACTGTGTGTCTTCTCTAGAGTTCTTCC

6715

ADAM10

ADAM10-201

ATAAAAACACAGCAGTGTGCTGAGTTGAAGAGTTAGAATTAAGAGTTTCAGGAAGACTGAGGTGTCTGGACTTACGGGCGCAATA
TATTTTTGTGTCGTCACAACGACTCAACTTCTCAATCTTAATTCTCAAGTCTTCTGACTCCACAGACCTGAATGCCCGCGTTAT

6800

ADAM10

ADAM10-201

CCTGAGAGGAGAGAGCTGTGTTGAGAAAAAGCTCCAGATATCTGCACAGGTGTTGCTTTCTTTGAGTCTTAGCTGAATACTAAGC
GGACTCTCCTCTCTCGACACAACCTTTTTTCGAGGTCTATAGACGTGTCCACAACGAAAGGAACTCAGAATCGACTTATGATTCTG

6885

ADAM10

ADAM10-201

TGTGCCTGCCTGCACGGGATGAAATTTCTTTGAGAAAAACCATGAGACAAAAGAAAAACTACCTGGACTCTGTGAAATGAACAACCTGT
ACACGGACGGACGTGCCCTACTTTAAGAACTCTTTTGGTACTCTGTTTCTTTTTGATGGACCTGAGACACTTTACTTGTGACA

6970

ADAM10

ADAM10-201

CAAAAACAATACTTGGGCCAGGTGTGGTGGTTCATGCCTGTGAATCCCAGCACTTTAGAAGGCTGAGGCAGCAGGACCACTTGAG
GTTTTTGTATGAACCCGGTCCACACCACCAAGTACGGACACTTAGGGTCGTGAAATCTTCCGACTCCGTCGTCTCTGGTGAACCTC

7055

ADAM10

ADAM10-201

GCCAGGAGTGCGAGACCAAGCCTGGGCAAACCTAGCCAGATCTCATCTCCATAATAGTAATAATTATTATTTTTAATTAGCTGG
CGGTCTCACGCTCTGGTCGGACCCGTTTGTATCGGTCTAGAGTAGAGGTATTATCATTATTAATAATAATAAAAAATTAATCGACC

7140

ADAM10

ADAM10-201

GTGTGGTGGATGAGCATCTGTAGTCTCAGCTACTCTGGAGGCTGAGACGAGAGGATTTCTTGAGCCCAGGTGGTTGAGGCTGCTGT
CACACCACTACTCGTAGACATCAGAGTCGATGAGACCTCCGACTCTGCTCTCCTAAAGAACTCGGGTCCACCAACTCCGACGACA

7225

ADAM10

ADAM10-201

GATCCATGATTGTGCCATGGCACCCAGCCCGGGCAGCAGCGCGAGACCCTGTCTCTAAAAAATTACACTTATTAGATATCCCA
CTAGGTACTAACACGGTACCGTGGGGTCCGGGCCGTCGTCGCGCTCTGGGACAGAGATTTTTTTAATGTGAATAATCTATAGGGT

7310

ADAM10

ADAM10-201

AGCCGTGGTAGTAGCAGGGCTAACCTAGCCCTAGAGTAGAAGCTACTTCAGACCTGCCCTTCTAAGCAGAAAAACAAACCTCAA
TCGGCACCATCATCGTCCCGATTGGATCGGGATCTCATCTTCGATGAAGTCTGGACGGGAAGGATTCGTCCTTTTTGTTTGGAGTT

7395

ADAM10

ADAM10-201

AAATGTCAAACCTGCTTTTTCAAATAAATTAGCTGTCTGTCTCAGAGAAAAGCTCAATAATATTTGTTAAAGGAGGACACTAAGTCCAG
TTTACAGTTTGACGAAAAGTTTATTTAATCGACAGACAGTCTCTTTTCGAGTTATTATAAACAATTTCTCCTGTGATTCAGGTC

7480

ADAM10

ADAM10-201

TTACTCAGCAGTATAACATTCAGTGTTTCAGCATTCAAAGAACATTACTAGATGACAAGAACTGAAAAACGTGATTCATAATAAG
AATGAGTCGTCATATTGTAAGTCACAAGTCGTAAGTTTCTTGTAAATGATCTACTGTTCTTTGACTTTTTGCACTAAGTATTATTC

7565

ADAM10

ADAM10-201

GAGAAAAGCCACCTAAATAGAAACACAACGTCTGTTAATTACAGATGTTAACAGGCAAGGACTTTAAACAACCTATTATTAGTAT
CTCTTTTCGGTGGATTTATCTTTGTGTTGCAGACAATTAATGTCTACAATTGTCCGTTCTGAAATTTTGTGATAATAATCATA

7650

ADAM10

ADAM10-201

GTTCAAAGAATTAAGACATGAACACAAAAAGGAGAGAATGGAAATTCATAAAGAACCAAATGGAACCTTCTAGGGTGAAAAAT
CAAGTTTCTTAATTTCTGTACTTGTGTTTTCTCTCTTACCTTTAAGATTATTTCTTGGTTTACCTTGAAGATCCCACTTTTTA

7735

ADAM10

ADAM10-201

ATATTATCTGAGGTAAAAAATTTAGTGGATAGGCTTAAAAGAAAAATTAATTAATGACGCTTTGAGTTATACTTATATGAACTCATTT
TATAATAGACTCCATTTTTTAAATCACCTATCCGAATTTCTTTAATTAATGACGCTTTGAGTTATACTTATATGAACTCATTT

7820

ADAM10

ADAM10-201

GGAAAAATAAAATAGACAGTATCCATATCTAAGCACAGAGGGAAAAATAATTGACGTCCAGCAGGAAGAGATGCAGAAAAAAATATT
CCTTTTTATTTTATCTGTCTATAGGTATAGATTCGTGTCTCCCTTTTTATTAAGTGCAGGTCGTCTTCTCTACGTCTTTTTTTATAA

7905

ADAM10

ADAM10-201

TAAAAATTAATGCCTCCGAATTTTTAGATACTAGGAAAAATTTCAATTCATGGTCCAAGAACTCAATGAAACACGTGCAGGATA
ATTTTTAATTACGGAGGCTTAAAAATCTATGATCCTTTTTAAAGTTAAGTACCAGGTTCTTTGAGTTACTTTGTGCACGTCCTAT

7990

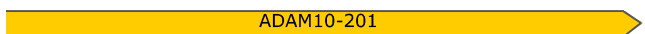
ADAM10

ADAM10-201

AACACAAAGAAAACCATACCAGGGTATGTTACAATTAAATTATTGGAAACACCTGAAAATCATAAAAAACCATAAAAGCAGGCAG
TTGTGTTTCCTTTGGTATGGTCCCATACAATGTTAATTTAATAACCTTTGTGGACTTTTAGTATTTTTTGGTATTTTCGTCCGTC



AGAAAAGGAGATACATTTACATACAGGGGAACAAAGATAA 3'
TCTTTCCTCTATGTAAATGTATGTCCCCTTGTTTCTATT 5'



Feature	Location	Size	Color	Strand	Type
✓ ADAM10	1 .. 8115	8115 bp	■	→	gene
/note	= gene ENSG00000137845 Protein coding				
✓ ADAM10-201	1 .. 8115	8115 bp	■	→	prim_transcript
/note	= primary transcript ENST00000260408				
ADAM10-202	1 .. 8115	8115 bp	■	→	prim_transcript
/note	= primary transcript ENST00000396136 Nonsense mediated decay				
ADAM10-203	1 .. 8115	8115 bp	■	→	prim_transcript
/note	= primary transcript ENST00000402627				
ADAM10-213	1 .. 8115	8115 bp	■	→	prim_transcript
/note	= primary transcript ENST00000558733 protein_coding_CDS_not_defined				
ADAM10-214	1 .. 8115	8115 bp	■	→	prim_transcript
/note	= primary transcript ENST00000559053				
ADAM10-217	1 .. 8115	8115 bp	■	→	prim_transcript
/note	= primary transcript ENST00000561288				
ADAM10-204	1 .. 4486	4486 bp	■	→	prim_transcript
/note	= primary transcript ENST00000439637				
ADAM10-211	1 .. 4480	4480 bp	■	→	prim_transcript
/note	= primary transcript ENST00000497846 protein_coding_CDS_not_defined				
ADAM10-212	1 .. 4450	4450 bp	■	→	prim_transcript
/note	= primary transcript ENST00000558004				
✓ ADAM10-201	4435 .. 4535	101 bp	■	→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000260408				
/translation	= YPHKYGPQGGCADHSVFERMRKYQMTGVVEVTQ 33 amino acids = 3.8 kDa				
ADAM10-204	4435 .. 4486	52 bp	■	→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000391930				
/translation	= YPHKYGPQGGCADHSV 17 amino acids = 1.7 kDa				
ADAM10-212	4435 .. 4450	16 bp	■	→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000452704				
/translation	= YPHK 5 amino acids = 543.6 Da				
✓ Donor Template SNV -> REV	4459 .. 4558	100 bp	■	⊢	misc_feature
✓ Protospacer Sequence	4477 .. 4496	20 bp	■	⊢	misc_feature
✓ SNV	4491 .. 4491	1 bp	■	⊢	misc_feature
/note	= REV = A SNV = G				
✓ PAM	4497 .. 4499	3 bp	■	⊢	misc_feature
	8116 .. 9417	1302 bp	■	←	gene
/note	= gene ENSG00000259250 lncRNA				
	8116 .. 9417	1302 bp	■	←	prim_transcript
/note	= primary transcript ENST00000560594 lncRNA				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward	25-mer	3825 .. 3849	59°C	Jan 18, 2023
/sequence = AATAAGGGCAGTAATGACTTGGGTG 44% GC / 7810.2 Da				
✓ Donor Template SNV -> REV	100-mer	4459 .. 4558	73°C	Jan 18, 2023
/sequence = CAAGCTAGTGTTAAAATCCTTACCTGTGTTACTTCCTCTACACCAGTCATCTGGTATTTCTCATTCTTTCAAATACTGAATGATCTGCACA 62% GC / 130,423.8 Da				
✓ gRNA Protospacer	20-mer	4477 .. 4490	35°C	Jan 18, 2023
/sequence = ATTCAGTATTTGAAGGAATG 30% GC / 6195.1 Da				
✓ Sanger Sequencing	21-mer	4630 .. 4650	58°C	Jan 18, 2023
/sequence = TCCCCACAGTGGTGTAAAGTC 52% GC / 6397.2 Da				
✓ PCR Reverse	25-mer	4854 .. 4878	59°C	Jan 18, 2023
/sequence = ATGAGGAATACCTTGGCAAACCAAG 44% GC / 7708.1 Da				