

Product datasheet for **KN213386**

ADAM8 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: ADAM8
Locus ID: 101
Components: **KN213386G1**, ADAM8 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGGTTCCAGGGAACCGTCC
KN213386G2, ADAM8 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGGGCGCGATGATGCTGCC
KN213386D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

```
GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA
TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGGCAAC AATTAATAGA
CTGGATGGAG GCGGATAAAG TTGCAGGACC ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT
GATAAATCTG GAGCCGGTGA GCGTGGTTCT CGCGGTATCA TTGCAGCACT GGGGCCAGAT GGTAAGCCCT
CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC TATGGATGAA CGAAATAGAC AGATCGCTGA
GATAGGTGCC TCACTGATTA AGCATTGGTA ACTGTACAGC CAAGTTTACT CATATATACT TTAGATTGAT
TTAAAACCTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA TAATCTCATG ACCAAAATCC
CTTAACGTGA GTTTTCGTTC CACTGAGCGT CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC
TTTTTTCTG CGCGTAATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG
GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAAGTGGCT TCAGCAGAGC GCAGATACCA AATACTGTTC
TTCTAGTGTA GCCGTAGTTA GGCCACCACT TCAAGAACTC TGTAGCACCG CCTACATACC TCGCTCTGCT
AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTGGACTC AAGACGATAG
TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGGTT CGTGACACACA GCCCAGCTTG GAGCGAACGA
CCTACACCGA ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCCGGAAG GGAGAAAGGC
GGACAGGTAT CCGGTAAGCG GCAGGGTCCG AACAGGAGAG CGCACGAGGG AGCTTCCAGG GGGAAACGCC
TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTGTGTA TGCTCGTCAG
GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACGCGGCCTT TTTACGGTTC CTGGCCTTTT GCTGGCCTTT
TGCTCACATG TTCTTCCCTG CGTTATCCCC TGATTCTGTG GATAACCGTA TTACCGCCTT TGAGTGAGCT
GATACCGCTC GCCGCAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA GAGCGCCCAA
TACGCAAACC GCCTCTCCCC GCGCGTTGGC CGATTTCATTA ATGCAGCTGG CACGACAGGT TTCCCAGCTG
GAAAGCGGGC AGTGAGCGCA ACGCAATTAA TGTGAGTTAG CTCACTCATT AGGCACCCCA GGCTTTACAC
TTTATGCTTC CGGCTCGTAT GTTGTGTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGCTATG
ACCATGATTA CGCCAAGCTC CTTCTCTTTC CAGCCCTTCC TCTTCTACTG ACTGACTGAC TGGAAGACAC
```



ACCTCTAGGG ACGGCCCTG CACCTGCCAT CACCTGGGCT GGGACCCCA CCTAGGGCTC CCCCTCCCA
 CTTGGACGCC TCGGGGCCA TGCCATCCC ACTCCGGTGA GGCCTCAGCC TGGTGGAGGG GGCAGCAGGCT
 TGGGGGGGAG GGTGGCAGAG CTTCCACAG GGCTGAACCT ATGCCACAA AGCCATGACT TGCCCTGGC
 TGAGGCTTTC TGTTCCCAAG GAAATCAGAG ACCCCCTCTC CTGAAACCGC CAGGCGGCC TCACAAGTCC
 CTTCCCTCC AGGACCTGCC TGGCGCCACC TCCTCCAGC CGCCGGGTCC TTCGAGAGGC CCCCTCTCGG
 GGCTCTGGCC GGAATTGGGA CAGGCTGTGC CTGAGTTTTC TCACCTGTGC AAGGGAGGAT GCTGGATTGT
 GGGGAGAGGG GAAACGGACC CCGCCCCAG GTGCCCGCGC CCCCCTCCCT CCCACCGGC GAGGGGCCA
 TTGGCTGCGG GGCGCCGGG CGGGCGCGC GAAAAAGAG CTCGGGCCAG GAGCGCAGGA ACCAGACCGT
 GTCCCGCGG GCTGTACCT CCGCCTCTGC TCCCGACCC GGCCACTAGC ATGGAGAGCG ACGAGAGCGG
 CCTGCCCGCC ATGGAGATCG AGTGCCGCAT CACCGGCACC CTGAACGGCG TGGAGTTCGA GCTGGTGGG
 GCGGAGAGG GCACCCCGA GCAGGGCCG ATGACCAACA AGATGAAGAG CACCAAAGG GCCCTGACCT
 TCAGCCCTA CTTGCTGAG CACGTGATGG GCTACGGCTT CTACCACTTC GGCACCTACC CCAGCGGCTA
 CGAGAACCC TTCCTGCAC CCATCAACA CGGCGGTAC ACCAACACCC GCATCGAGAA GTACGAGGAC
 GGGCGGTGC TGCACGTGAG CTTGAGCTAC CGCTACGAG CCGCCCGCT GATCGGCGAT TTCAAGGTGA
 TGGCACCGG CTTCCCGAG GACAGCGTGA TCTTACCGA CAAGATCATC CGCAGCAAC CCACCGTGA
 GCACCTGCAC CCCATGGCG ATAACGATCT GGATGGCAGC TTCACCCGCA CCTTCAGCCT GCGCGACGGC
 GGCTACTACA GCTCCGTGGT GGACAGCCAC ATGCACTTCA AGAGCGCCAT CCACCCAGC ATCCTGCAGA
 ACGGGGGCC CATGTTCCG TCCCGCCGCG TGGAGGAGGA TCACAGCAAC ACCGAGCTGG GCATCGTGA
 GTACCAGCAC GCCTTCAAGA CCCCGGATGC AGATGCCGTT GAAGAAAGAG TTTAAGAATT CCGATCATAT
 TCAATAACCC TTAATATAAC TTCGTATAAT GTATGCTATA CGAAGTTATT AGGTCTGAAG AGGAGTTTAC
 GTCCAGCAA GCTTAGGATC TCGACCTCGA AATTCTACCG GGTAGGGGAG GCGCTTTTCC CAAGGCAGTC
 TGGAGCATGC GCTTAGCAG CCCCGCTGG CACTTGGCGC TACACAAGTG GCCTCTGGC TCGCACACAT
 TCCACATCA CCGTAGGCG CCAACCGACT CCGTTCTTTG GTGGCCCTT CCGCCACCT TCTACTCTC
 CCCTAGTCAG GAAGTTCCCC CCGCCCCGCG AGCTCGGTC GTGCAGGAC TGACAAATGG AAGTAGCACG
 TCTCACTAGT CTCGTGCAGA TGGACAGCAC CGCTGAGCAA TGGAAAGCGG TAGGCCTTTG GGGCAGCGG
 CAATAGCAGC TTTGCTCCTT CGCTTTCTGG GCTCAGAGG TGGGAAGGGG TGGTCCGGG GCGGGCTCA
 GGGGCGGGT CAGGGCGGG GCGGGCGCC GAAGTCTC CGGAGGCCG GCATTCTGA CGCTTCAAAA
 GCGCAGTCT GCCGCGTGT TCTCCTTTC CTCATCTCCG GGCTTTTGA CCTGCATCCA TCTAGATCTC
 GAGCAGTGA AGCTTACCAT GACCGAGTAC AAGCCACGG TCGCCTCGC CACCCGCGC GACGTCCCA
 GGGCCGTAC CACCCTCGC GCCGCTTCC CCGACTACC CGCCACGCG CACACCGTC ATCCGGACCG
 CCACATCGAG CGGGTCACCG AGCTGCAAGA ACTTCTCTC ACGCGGTCG GGCTCGACAT CGGCAAGGTG
 TGGTTCGGG ACGACGGCG CCGGTGGCG GTCTGGACCA CGCCGGAGAG CGTCGAAGCG GGGCGGTGT
 TCGCCGAGAT CGGCCGCGC ATGGCCGAGT TGAGCGGTT CCGGCTGGC GCGCAGCAAC AGATGGAAGG
 CCTCTGGCG CGCACCGGC CCAAGGAGCC CGCGTGGTT CTGGCCACC TCGGCGTCT GCCCGACCAC
 CAGGGCAAGG GTCTGGGCG CGCCGTCGTG CTCCCGGAG TGGAGGCGG CGAGCGCGC GGGGTGCCG
 CCTTCTGGA GACCTCCGCG CCCACAACC TCCCCTTCTA CGAGCGGCTC GGCTTACCG TCACCGCCGA
 CGTCGAGGTG CCCGAAGGAC CGCGCACCTG GTGCATGACC CGCAAGCCG GTGCCTGAC CCCGCCAC
 GACCCGACG GCCCGACCGA AAGGAGCGCA CGACCCATG CATCGATGAT ATCAGATCCC CGGGATGCAG
 AAATTGATGA TCTATTAAC AATAAAGATG TCCACTAAA TGGAAAGTTT TCCTGCATA CTTTGTAAAG
 AAGGGTGAGA ACAGAGTACC TACATTTTGA ATGGAAGGAT TGGAGTACG GGGGTGGGG TGGGTGGGA
 TTAGATAAAT GCCTGCTCT TACTGAAGGC TCTTACTAT TGCTTTATGA TAATGTTTCA TAGTTGATA
 TCATAATTA AACAAGCAA ACCAAATTAA GGGCCAGCTC ATTCCTCCA CTCATGATCT ATAGATCTAT
 AGATCTCTCG TGGATCATT GTTTTTCTCT TGATTCCAC TTTGTGGTTC TAAGTACTGT GGTTCACAA
 TGTGTCAGTT TCATAGCCTG AAGAACGAGA TCAGCAGCCT CTGTTCCACA TACACTTCAT TCTCAGTATT
 GTTTTGCAA GTTCTAATC CATCAGAAGC TGGTCGAGAT CCGGAACCCT TAATATAACT TCGTATAATG
 TATGCTATAC GAAGTTATTA GGTCCCTCGA AGAGTTTAC TAGGCGCGC **AGCGGGGGC AGGGTGGCTC**
TCCCGCAGG ACGCGACCG GACCCGAGC CCCTGGCCTG CTGCAACCC GCACCCTGGC CCGGCTTCGG
GCTGGTCCCT GGGAGCGGC CATCAGGTGC ACAGTGGTCT CTGGGTGGAG AGCCCCGGC CGGGGAGGCC
GGGAGGTCG GAGGGAACCT TCAAAGGTGA ACTGTGAGAG GGAAGTCCG CCTCTGAGCT TGTTAGTGGG
GTCGGGGCCG GGCCAAGCAG GACGCTTAC CTGCTGCGG AGGCGCCCTG GGTTCTGGG ATTCACCTGT
GGGGTACCC ACCCCACTA TTTAGCCGAG GAGGGAAGG AGGGCAGACA AGCTGAGGC TGGAGTGCAG
GGGTGTGGG TGAGGGGACC CGTCTCTGC CTGGGGGAG ACATGGGGT GCTGACCCTG GATCCACCC

```

CTGCTCCTGG AGTGACTTGG GCTGGGGTGT GCTGAGGAGC TTCAGGCTGG AGGCCGGGTT GCTTCCCGCC
AGTTTCCTGG GCAGATAGGG GCTGGCTGCT CCCCTGCTGC CTCTCCAGGT TGGAGATGTG GTCATGGAGA
CACGTCCACT ATTGTGTTTT ACGACAGTCT TCACTGACTG ACTGACTGGA AAGTCCTCTC CACTGACTGT
AGCCTCCAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC TGGGAAAACC CTGGCGTTAC CCAACTTAAT
CGCCTTGACAG CACATCCCCC TTTCGCCAGC TGGCGTAATA GCGAAGAGGC CCGCACCGAT CGCCCTTCCC
AACAGTTGCG CAGCCTGAAT GGCGAATGGC GCCTGATGCG GTATTTTCTC CTTACGCATC TGTGCGGTAT
TTCACACCGC ATACGTCAA AACAACATAG TACGCGCCCT GTAGCGGCGC ATTAAGCGCG GCGGGTGTGG
TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCCT AGCGCCCGCT CCTTTCGCTT TCTTCCCTTC
CTTTCTCGCC ACGTTCGCCG GCTTTCGCCG TCAAGCTCTA AATCGGGGGC TCCCTTTAGG GTTCCGATTT
AGTGCTTTAC GGCACCTCGA CCCCCAAAAA CTTGATTTGG GTGATGGTTC ACGTAGTGGG CCATCGCCCT
GATAGACGGT TTTTCGCCCT TTGACGTTGG AGTCCACGTT CTTTAATAGT GGACTCTTGT TCCAAACTGG
AACAACTC AACCCATCT CGGGCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTT GGCCTATTGG
TTAAAAATG AGCTGATTTA AAAAAATTT AACGCGAATT TTAACAAAAT ATTAACGTTT ACAATTTTAT
GGTGCCTCT CAGTACAATC TGCTCTGATG CCGCATAGTT AAGCCAGCCC CGACACCCGC CAACACCCGC
TGACGCGCCC TGACGGGCTT GTCTGCTCCC GGCATCCGCT TACAGACAAG CTGTGACCGT CAACGGGAGC
TGATGTGTC AGAGGTTTTT ACCGTCATCA CCGAAACGCG CGACCCGAAA GGGCCTCGTG ATACGCCTAT
TTTTATAGGT TAATGTCATG ATAATAATGG TTTCTTAGAC GTCAGGTGGC ACTTTTCGGG GAAATGTGCG
CGGAACCCCT ATTTGTTTAT TTTTCTAAT ACATTCAAAT ATGTATCCGC TCATGAGACA ATAACCCTGA
TAAATGCTTC AATAATATTG AAAAAGGAAG AGTATGAGTA TTCAACATTT CCGTGTCCGC CTTATTCCTT
TTTTTGCGGC ATTTTGCCTT CCGTGTGTTG CTCACCCAGA AACGCTGGTG AAAGTAAAG ATGCTGAAGA
TCAGTTGGGT GCACGAGTGG GTTACATCGA ACTGGATCTC AACAGCGGTA AGATCCTTGA GAGTTTTGCG
CCGAAGAAC GTTTTCCAAT GATGAGCACT TTTAAAGTTC TGCTATGTGG CGCGGTATTA TCCCATTG
ACGCCGGGCA AGAGCAACTG GGTCGCCGCA TACACTATTC TCAGAAATGAC TTGTTGAGT ACTCACCAGT
CACAGAAAAG CATCTTACGG ATGGCATGAC AGTAAGAGAA TTATGCAGTG CTGCCATAAC CATGAGTGAT
AACACTGCGG CCAACTTACT TCTGACAACG ATCGGAGGAC CGAAGGAGCT AACCGCTTTT TTGCACAACA
TGGGGGATCA TGTAACCTCG CTT

```

GE100003, scramble sequence in pCas-Guide vector

Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_001109](#), [NM_001164489](#), [NM_001164490](#)

UniProt ID:

[P78325](#)

Synonyms:

CD156; CD156a; MS2

Summary:

This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene may be involved in cell adhesion during neurodegeneration, and it is thought to be a target for allergic respiratory diseases, including asthma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2009]

Product images:

