

## Product datasheet for **RG228563**

### ADAM8 (NM\_001164490) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM8 (NM_001164490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAM8
Synonyms:	CD156; CD156a; MS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228563 representing NM\_001164490  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGCGGCTCGGGCTCTGGCTGCTGGGCGCATGATGCTGCCCTGGGCTGCACCCAGAGAGGGTGAAG  
 TAGCTCCTTGGGGCCACAGGGCACAACTTCACCTCCACCTGCGGAAGAACAGGGACCTGCTGGGCTCCG  
 GCTACACAGAGACCTATACGGCTGCCAATGGCTCCGAGGTGACGGAGCAGCCTCGCGGGCAGGACCACTG  
 CTTCTACCAGGGCCACGTAGAGGGGTACCCGGACTCAGCCGCCAGCCTCAGCACCTGTGCCGGCCTCAGG  
 TGGGGTACAGACCTGCACCTGATCGAGCCCTGGATGAAGGTGGCAGGGCGGACGGCAGCCGTGTACCA  
 GGCTGAGCACCTGCTGCAGACGGCCGGGACCTGCGGGGTGAGCGACGACAGCCTGGGCAGCCTCCTGGGA  
 CCCCAGGACGGCAGCCGTCTTCCAGCCTCGGCCCGGGACTCTCTGCCATCCCGAGAGACCCGCTACGTGG  
 AGCTGTATGTGGTCGTGGACAATGCAGAGTTCAGATGCTGGGGAGCGAAGCAGCCGTGCGTCATCGGGT  
 GCTGGAGTGGTGAATCACGTGGACAAGCTATATCAGAACTCAACTTCCGTGTGGTCTGTTGGGCTG  
 GAGATTTGGAATAGTCAGGACAGGTTCCAGCTCAGCCCGACCCAGTGTACACTGGAGAACCTCCTGA  
 CCTGGCAGGCACGGCAACGGACACGGCGCACCTGCATGACAACGTACAGCTCATCACGGGTGTCGACTT  
 CACCGGGACTACCGTGGGGTTTCCAGGGTGTCCGCCATGTGCTCCACAGCTCAGGGGCTGTGAACAG  
 GACCACAGCAAGAACCCCGTGGGCGTGGCTGTACCATGGCCCATGAGATGGGCCACAACCTGGGCATGG  
 ACCATGATGAGAAGCTCCAGGGCTGCCGCTGCCAGGAACGCTTCGAGGCCGGCCGCTGCATCATGGCGGG  
 CAGCATTGGTCCAGTTTCCCAGGATGTTCACTGACTGCAGCCAGGCCACTGTTGGGAGAGCTTTTGGAG  
 CGGCCAGTCGGTGTGCTCGCCAACGCCCTGACCTCAGCCACCTGGTGGGCGGCCCGTGTGTGGGA  
 ACCTGTTTGTGGAGCGTGGGAGCAGTGGCAGTGGGCCCCCGAGGACTGCCGGAACCGCTGTGCA  
 CTCTACCACCTGCCAGCTGGCTGAGGGGCCAGTGTGCCACGGTACCTGCTGCCAGGAGTGAAGGTG  
 AAGCCGGTGGTGAAGTGTGCCCTCCCAAGAGGACATGTGTGACCTCGAGGAGTCTGTGACGGCCGGC  
 ACCCTGAGTGCCCGAAGACGCTTCCAGGAGAAGGCACGCCCTGCTCCGGGGCTACTGCTACAACGG  
 GGCCTGTCCACACTGGCCAGCAGTGCAGGCCCTTCTGGGGCCAGGTGGCAGGCTGCCGAGGAGTCC  
 TGCTTCTCCTATGACATCCTACCAGGCTGCAAGGCCAGCCGGTACAGGGCTGACATGTGTGGCGTCTGC  
 AGTGCAAGGGTGGCAGCAGCCCTGGGGCTGCCATCTGCATCGTGGATGTGTGCCACGCGCTCACCAC  
 AGAGGATGGCACTGCGTATGAACAGTGCAGGAGGCCACCCGGTGTGGACCAGAGAAGGTGTGAACCCAC  
 AAGCAGGAGTGCACCTGCCACGCGGGCTGGGCCCGCCCACTGCGCGAAGCTGTGACTGAGGTGCACG  
 CAGCGTCCGGGAGCCTCCCGTCTTCTGGTGGTGGTCTGTTGGTCTCCTGGCAGTTGTGCTGGTCAACCT  
 GGCAGGCATCATCGTCTACCGCAAAGCCCGGAGCCGCATCCTGAGCAGGAACGTGGCTCCCAAGACCACA  
 ATGGGGCGCTCCAACCCCTGTTCCACCAGGCTGCCAGCCGCGTCCCGGCCAAGGGCGGGGCTCCAGCCC  
 CATCCAGGGGCCCAAGAGCTGGTCCCAACCCACCCCGGGCCAGCCCGCCGACACCCGGCCTCCTC  
 GGTGGCTCTGAAGAGGCCGCCCTGCTCCTCCGGTCACTGTGTCCAGCCACCCCTCCAGTTCCTGTC  
 TACACCCGGCAGGCACCAAGCAGGTGCTGTTGGCCAAAGGTTGCCCTGAAGCCCCCATCCAGAGGA  
 AGCAAGGAGCCGGAGCTCCACAGCACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228563 representing NM\_001164490  
 Red=Cloning site Green=Tags(s)

```
MRGLGLWLLGAMMLPGPAPREGELRPWGHRAQLHPPPAEEQGPAGLRLHRDL YGCQWLRGDGAASRAGPL
LLPGPRRGVPLSRQPQHLCRPQVGSDDLHLEIPLDEGEGGRHAVYQAEHLLQTAGTCGVSDDSLGSLLG
PRTAAVFRPRPGDSLPSRETRYVELYVVVDNAEFQMLGSEAAVHRVLEVVNHVDKLYQKLNFRVVLVGL
EIWNSQDRFHVSPDPVSVLENLLTWQARQTRRHLDHNVQLITGVDFGTTVGFARVSAMCSHSSGAVNQ
DHSKNPVGVACTMAHEMGNLGMHDHENVQGCRCQERFEAGRCIMAGSIGSSFPRMFSDCSQAYLESFLE
RPQSVCLANAPDLSHLVGGPVCGNLFVERGEQCDCGPPEDCRNRCCNSTTCQLAEGAQCAHGTCQCECKV
KPAGELCRPKKDMCDLEEFCDGRHPECPEDAFQENGTPCSGGYCYNGACPTLAQQCQAFWPGGGQAAEES
CFSYDILPGKASRYRADMCGVLQCKGGQQLGRAICIVDVCHALTTEDGTAYEPVPEGTRCGPEKVCNH
KQECHCHAGWAPPHCAKLLTEVHAASGSLPVFVVVVLVLLAVVLVTLAGIIVYRKARSRILSRNVAPKTT
MGRSNPLFHQAASRVPAKGGAPAPSRGPQELVPTTHPGQPARHPASSVALKRPPAPPVTVSSPPFPVPV
YTRQAPKQGA VGPKVALKPPIIQRKQAGAPTAP
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164490

**ORF Size:** 2199 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001164490.2](#)

**RefSeq Size:** 3043 bp

**RefSeq ORF:** 2202 bp

**Locus ID:** 101

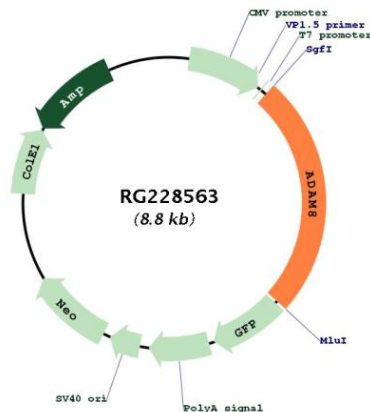
**UniProt ID:** [P78325](#)

**Cytogenetics:** 10q26.3

**Protein Families:** Druggable Genome, Transmembrane

**Gene 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:**



Circular map for RG228563