

Product datasheet for **RG228568**

ADAM8 (NM_001164489) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM8 (NM_001164489) 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:

>RG228568 representing NM_001164489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGCGCCTCGGGCTCTGGCTGCTGGGCGCATGATGTGCCTGCGATTGCCCCAGCCGGCCCTGGG
 CCCTCATGGAGCAGTATGAGGTCGTGTTGCCGTGGCGTCTGCCAGGCCCCGAGTCCGCCGAGCTCTGCC
 CTCCCCTTGGGCTGCACCCAGAGAGGGTGAGCTACGTCCTTGGGGCCACAGGGCACAACCTCACCCCTC
 CACCTGCGGAAGAACAGGGACCTGCTGGGCTCCGGCTACACAGAGACCTATACGGCTGCCAATGGCTCCG
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 GAGCCCTGGATGAAGGTGGCGAGGGCGGACGGCACGCCGTGTACCAGGTGAGCACCTGCTGCAGACGG
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 GCCTCGGCCCGGGACTCTCTGCCATCCCGAGAGACCCGCTACGTGGAGCTGTATGTGGTGTGGACAAT
 GCAGAGTTCAGATGCTGGGGAGCGAAGCAGCCGTGCGTTCATCGGGTGTGGAGGTGGTGAATCAGTGG
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 GTTCCAGTACAGCCCGACCCAGTGTACACTGGAGAACCCTCCTGACCTGGCAGGCACGGCAACGGACA
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 GTCCAGCCACCCTTCCAGTTCCTGTCTACCCCGGCAGGCACCAAGCAGGTCAAGCCAACGTTCC
 GCACCCCAAGTGGCCCGAGTCAAACCCGGGGCTGGTGGGCCAACCTGGTCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228568 representing NM_001164489
Red=Cloning site Green=Tags(s)

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MRGLGLWLLGAMMLPAIAPSRPWALMEQYEVVLPWRLPGPRVRRALPSHLGLHPERVSYVLGATGHNFTL
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AEFQMLGSEAAVRHRVLEVVNHVDKLYQKLNFRVVLVGLIWNQDRFHVSPDPSTLENLLTWQARQRT
RRHLHDNVQLITGVDFGTTVGFARVSAMCSHSSGAVNQDHSKNPVGVACTMAHEMGNLGMHDENVQG
CRCQERFEAGRCIMAGSIGSSFPRMFSDCSQAYLESFLERPQSVCLANAPDLSHLVGGPVCGNLFFERGE
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FQENGTPCSGGYCYNGACPTLAQQCAFWPGGQAAEESCFSYDILPGCKASRYRADMCGLVQCKGGQQP
LGRAICIVDVCHALTTEDGTAYEPVPEGTRCGPEKVCWKGRCDLHVYRSSNCSAQCHNHGVCNHHKQECH
CHAGWAPPHCAKLLTEVHAGCQPRAGQGRGSSPIQGPPRAGPHHPPGPARPTPGLLGGSEEAAPCSSGHC
VQPTLPSCLHPAGTKAGHQANVRTPSAPSQTRGWCGQPWSS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164489

ORF Size: 2226 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_001164489.2](#)

RefSeq Size: 3149 bp

RefSeq ORF: 2229 bp

Locus ID: 101

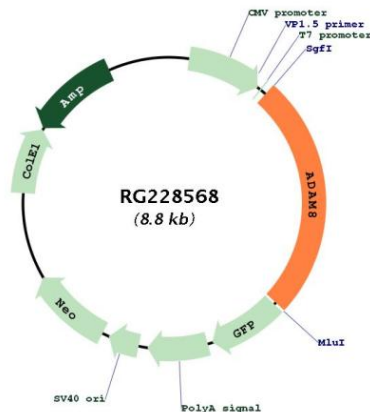
UniProt ID: [P78325](#)

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 RG228568