

Product datasheet for **SC310071**

ADAM22 (NM_016351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM22 (NM_016351) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM22
Synonyms:	ADAM 22; DEE61; EIEE61; MDC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF sequence for NM_016351 edited
 ATGCAGGCGGCAGTGGCTGTGTCCTGCCCTTCTTGTCTGTCTGTGTCCTGGGGACCTGC
 CCTCCGGCGCGCTGCGGCCAGGCAGGAGACGCCTCATTGATGGAGCTAGAGAAGAGGAAG
 GAAAACCGCTTCGTGGAGCGCCAGAGCATCGTGCCACTGCGCCTCATCTACCGCTCGGGC
 GGCGAAGACGAAAGTCGGCACGACGCGCTCGACACGCGGGTGGGGGCGACCTCGGTGGC
 CGGCAGTTGACTCATGTTGACCAAGCAAGCTTCCAGGTTGATGCCTTTGGAACGTCATTC
 ATTCTCGATGTCGTGCTAAATCATGATTTGCTGTCCTCTGAATACATAGAGAGACACATT
 GAACATGGAGGCAAGACTGTGGAAGTTAAAGGAGGAGAGCACTGTTACTACCAGGGCCAT
 ATCCGAGGAAACCTGACTCATTGTTGCATTGTCAACATGCCACGGACTTCATGGGATG
 TTCTATGACGGGAACCACACATATCTCATTGAGCCAGAAGAAAATGACACTACTCAAGAG
 GATTTCCATTTTCATTGATTTACAAAATCCAGACTGTTTGAATTTTCTTGGATGATCTT
 CCATCTGAATTTGAGCAAGTAAACATTACTCCATCAAAATTTATTTTGAAGCCAAGACCA
 AAAAGGAGTAAACGGCAGCTTCGTGATATCCTCGTAATGTAGAAGAAGAAACCAATAC
 ATTGAAGTATGATTGTGAATGATCACCTTATGTTTAAAAACATCGGCTTTCGTTGTA
 CATAACCAATACCTATGCGAAATCTGTGGTGAACATGGCAGATTTAATATATAAGACCAA
 CTTAAGACCAGGATAGTATTGGTTGCTATGGAAACCTGGGCGACTGACAACAAGTTTGCC
 ATATCTGAAAATCCATTGATCACCTACGTGAGTTTATGAAAATACAGGAGGGATTTTATC
 AAAGAGAAAAGTATGAGTTCACCTTTTTTTCGGGAAGTCAATTTGAGAGTAGCCGGAGC
 GGGGCAGCTTATATTGGTGGGATTTGCTCGTTGCTGAAAGGAGGAGGCGTGAATGAATTT
 GGGAAAATGATTTAATGGCTGTACACTTGCCAGTCAATAGCCATAATATTGGTATT
 ATCTCAGACAAAAGAAAGTTAGCAAGTGGTGAATGTAATGCGAGGACACGTGGTCCGGG
 TGCATAATGGGAGACACTGGCTATTATCTTCTAAAAAGTTCAACCAGTGAATATTGAA
 GAGTATCATGACTTCTGAATAGTGGAGTGGTGCCTGCCTTTTCAACAAACCTTCTAAG
 CTCTTGATCCTCCTGAGTGTGGCAATGGCTTCAATTGAAACTGGAGAGGAGTGTGATTGT
 GGAACCCCGCCGAATGTGCTTGAAGGAGCAGAGTGTGTAAGAAATGCACCTTGACT
 CAAGACTCTCAATGACGTGACGGTCTTTGCTGTAAAAAGTCAAGTTTTCAGCCTATGGGC
 ACTGTGTGCCGAGAAGCAGTAAATGATTGTGATTTCTGTAACGCTGCTCAGGAAATTC
 AGCCAGTGTGCCCTAATATTCAAAAATGGATGGATTTGATGATGGTGTTCAGGGA
 ATTTGCTTTGGAGGAAGATGAAAACAGAGATAGACAATGCAAAATACATTTGGGGGCAA
 AAGGTGACAGCATCAGACAAATATTGCTATGAGAACTGAATATTGAAGGACGGAGAAG
 GGTAACCTGTGGGAAAGACAAAGACACATGGATACAGTGAACAAACGGGATGTGCTTTGT
 GGTACCTTTTGTGTACCAATATTGGCAATATCCAAGGCTTGGAGAAGTGCATGGTGAA
 ATCACATCTACTTTAGTTGTGCAGCAAGGAAGAACATTAAGTGCAGTGGTGGGCATGTT
 AAGCTTGAAGAAGATGTAGATCTTGGCTATGTGGAAGATGGGACACCTTGTGGTCCCAA
 ATGATGTGCTTAGAACACAGGTGCTTCTCTGTTGCTTCTTCAACTTTAGTACTTGCTTG
 AGCAGTAAAGAAGGCACTATTTGCTCAGGAAATGGAGTTTGCAGTAAATGAGCTGAAGTGT
 GTGTGTAACAGACACTGGATAGGTTCTGATTGCAACACTACTTCCCTACAATGATGAT
 GCAAAGACTGGTATCACTCTGTCTGGCAATGGTGTGCTGGCACCATAATCATAATAGGC
 ATAATTGCTGGCACCATTTTAGTGTCTGGCCCTCATATTAGGAATAACTGCGTGGGGTTAT
 AAAAACTATCGAGAACAGAGGTCAAATGGGCTCTCTCATTCTTGGAGTGAAGGATTCCA
 GACACAAAACATATTTGACATCTGTGAAAATGGGCGACCTCGAAGTAACTCTTGGCAA
 GGTAACCTGGGAGGCAACAAAAAGAAAATCAGAGGCAAAAAGATTTAGACCTCGGTCTAAT
 TCAACTGAGACTTTATCTCTGCAAGTCTCTTCTTCACTGAGTCTATTGCTCTC
 AGCAGAAAATACCCTTACCAATGCCTCCACTTCTGATGAGGACAAGAAAGTGAACCGA
 CAAAGTGCCAGGCTATGGGAGACATCCATTTAA

Restriction Sites: Please inquire
ACCN: NM_016351
Insert Size: 3300 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_016351.3](#), [NP_057435.2](#)

RefSeq Size: 3347 bp

RefSeq ORF: 2613 bp

Locus ID: 53616

Cytogenetics: 7q21.12

Domains: Reprolysin, DISIN, Pep_M12B_propep, ACR

Protein Families: Druggable Genome, Protease, 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. Unlike other members of the ADAM protein family, the protein encoded by this gene lacks metalloprotease activity since it has no zinc-binding motif. This gene is highly expressed in the brain and may function as an integrin ligand in the brain. In mice, it has been shown to be essential for correct myelination in the peripheral nervous system. Alternative splicing results in several transcript variants.[provided by RefSeq, Dec 2010]

Transcript Variant: This variant (3), also known as alpha, lacks an in-frame exon compared to variant 1. The encoded isoform (3) is shorter than isoform 1. The encoded isoform (3) may undergo proteolytic processing. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.