

## Product datasheet for **SC310055**

### ADAM22 (NM\_021722) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM22 (NM_021722) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM22
Synonyms:	ADAM 22; DEE61; EIEE61; MDC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310055 representing NM\_021722.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI  
**Plasmid Map:** □  
**ACCN:** NM\_021722

<b>Insert Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_021722.5</a></u>
<b>RefSeq Size:</b>	9431 bp
<b>RefSeq ORF:</b>	2700 bp
<b>Locus ID:</b>	53616
<b>UniProt ID:</b>	<u><a href="#">Q9P0K1</a></u>
<b>Cytogenetics:</b>	7q21.12
<b>Domains:</b>	Reprolysin, DISIN, Pep_M12B_propep, ACR
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>MW:</b>	100.3 kDa

**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 (2), also known as delta, has multiple differences in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. The encoded isoform (2) 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.