

## Product datasheet for **SC124720**

### **ADAM22 (NM\_021723) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ADAM22 (NM_021723) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM22
Synonyms:	ADAM 22; DEE61; EIEE61; MDC2
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM\_021723, the custom clone sequence may differ by one or more nucleotides

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ATGCAGGCGGCAGTGGCTGTGTCCGTGCCCTTCTTGCTGCTCTGTGTCTGGGGACCTGCCCTCCGGCGC
GCTGCGGCCAGGCAGGAGACGCCTCATTGATGGAGCTAGAGAAGGGAAGGAAAACCGCTTCGTGGAGCG
CCAGAGCATCGTCCACTGCGCCTCATCTACCGCTCGGGCGGCGAAGACGAAAGTCGGCAGCAGCGCGCTC
GACACGCGGGTGCGGGGGACCTCGGTGGCCCGCAGTTGACTCATGTTGACCAAGCAAGCTTCCAGGTTG
ATGCCTTTTGAACGTCATTTCATTCTCGATGTCGTGCTAAATCATGATTTGCTGTCCTCTGAATACATAGA
GAGACACATTGAACATGGAGGCAAGACTGTGGAAGTTAAAGGAGGAGAGCACTGTTACTACCAGGGCCAT
ATCCGAGGAAAACCTGACTCATTGTTGCATTGTCAACATGCCACGGACTTCATGGGATGTTCTATGACG
GGAACCACACATATCTCATTGAGCCAGAAGAAAATGACTACTCAAGAGGATTTCCATTTTCATTTCAGT
TTACAAATCCAGACTGTTTGAATTTTCTTGGATGATCTCCATCTGAATTTTCAGCAAGTAAACATTACT
CCATCAAAATTTATTTTGAAGCCAAGACAAAAAGGAGTAAACGGCAGCTTCGTCGATATCTCGTAATG
TAGAAGAAGAAAACCAATACATTGAACTGATGATTGTGAATGATCACCTTATGTTTAAAAACATCGGCT
TTCCGTTGTACATACCAATACCTATGCGAAATCTGTGGTGAACATGGCAGATTTAATATATAAAGACCAA
CTTAAGACCAGGATAGTATTGGTTGCTATGGAAACCTGGGCGACTGACAACAAGTTTGCCATATCTGAAA
ATCCATTGATCACCTACGTGAGTTTATGAAATACAGGAGGGATTTTATCAAAGAGAAAAGTGATGCAGT
TCACCTTTTTTTCGGGAAGTCAATTTGAGAGTAGCCGGAGCGGGCAGCTTATATTGGTGGGATTTGCTCG
TTGCTGAAAGGAGGAGGCGTGAATGAAATTTGGGAAAACGATTTAATGGCTGTTACACTTGCCCAGTCAT
TAGCCCATAAATTTGGTATTATCTCAGACAAAAGAAAGTTAGCAAGTGGTGAATGAAATGCGAGGACAC
GTGGTCCGGTGCATAATGGGAGACACTGGCTATTATCTTCTAAAAAGTTACCCAGTGAATATTGAA
GAGATCATGACTTCTGAATAGTGGAGTGGTGCCTTCTTCAACAACTTCTCAAGCTTCTGATGTTGATG
CTCTGAGTGTGGCAATGGCTTCATTGAACTGGAGAGGAGTGTGATTGTGGAACCCGCGCGAATGTGT
CCTTGAAGGAGCAGAGTGTGTGAAGAAATGCACCTTGACTCAAGACTCTCAATGCAGTGCAGGCTTTTGC
TGTA AAAAGTGCAAGTTTCAGCCTATGGGCACTGTGTGCCGAGAAGCAGTAAATGATTGTGATATTCGTG
AAACGTGCTCAGGAAATCAAGCCAGTGTGCCCTAATATTCATAAAAATGGATGGATATTCATGTGATGG
TGTT CAGGGAATTTGCTTTGGAGGAAGATGCAAAACCAGAGATAGACAATGCAAATACATTTGGGGCAA
AAGGTGACAGCATCAGACAAATATTGCTATGAGAACTGAATATTGAAGGGACGGAGAAGGGTAACTGTG
GAAAAGACAAAGACACATGGATACAGTGAACAAACGGGATGTGCTTTGTGGTTACCTTTTGTGTACCAA
TATTGGCAATATCCCAAGCTTGGAGAACTCGATGGTGAATCACATCTACTTTAGTTGTGCAGCAAGGA
AGAACATTA AACTGCAGTGGTGGCATGTTAAGCTTGAAGAAGATGTAGATCTTGCTATGTGGAAGATG
GGACACCTTGTGGTCCCAAATGATGTGCTTAGAACACAGGTGTCTTCTGTGGCTTCTTCAACTTTAG
TACTTGCTTGAGCAGTAAAGAAGGCACTATTTGCTCAGGAAATGGAGTTTGCAGTAAATGAGCTGAAGTGT
GTGTGTAACAGACACTGGATAGGTTCTGATTGCAACACTTACTTCCCTCACAATGATGATGCAAAGACTG
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AGTGCTGGCCCTCATATTAGGAATAACTGCGTGGGGTTATAAAAATATCGAGAACAGAGACAGTTACCC
CAGGGAGATTATGTA AAAAGCCTGGAGATGGTACTCTTTTATAGCGACATTCCTCCCGGAGTCAGCA
CAAATCAGCATCTAGTTCTAAGAAGAGGTCAAATGGGCTCTCTATTCTTGGAGTGAAGGATCCAGA
CACAAAACATATTT CAGACATCTGTGAAAATGGGCGACCTCGAAGTAACTTTGGCAAGGTAACCTGGGA
GGCAACAAAAAGAAAATCAGAGGCAAAAGATTTAGACCTCGGTCTAATTCAACTGAGACTTTATCTCCTG
CCAAGTCTCCTTCTCATCAACTGGGTCTATTGCCTCCAGCAGAAAAATACCTTACCCAATGCCTCCACT
TCCTGATGAGGACAAGAAAGTGAACCGACAAAAGTCCAGGCTATGGGAGACATCCATTTAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021723 unedited  
 ACGAGGGTCCGCGAAGCACAATGCAGCACTGAGCCGCGGTGGAGGTTGCAGCGCCACGGC  
 CGCCGCAGCACCCGGCCGGGGCTGGGTGGAGGTGGCCGCGGGGACCCCGGGGGCGCGGAGC  
 GAGGGAACCGACTCGGCGGCGCCGGCATGAGGAGCTGAGCGTCTCGGGCGAGGCGGGCT  
 GACGGCAGCACCATGCAGGCGGCAGTGGCTGTGTCCGTGCCCTTCTTGTCTGTGTGTC  
 CTGGGGACCTGCCCTCCGGCGCGCTCGGCCAGGCAGGAGACGCCTCATTGATGGAGCTA  
 GAGAAGAGGAAGAAAACCGCTTCGTGGAGCGCCAGAGCATCGTGCCACTGCGCCTCATC  
 TACCGCTCGGGCGCGAAGACGAAAGTCGGCACGACGCGCTCGACACGCGGTGCGGGGC  
 GACCTCGGTGGCCCGCAGTTGACTCATGTTGACCAAGCAAGCTTCCAGGTTGATGCCTTT  
 GGAACGTCATTATTCTCGATGTCGTGCTAAATCATGATTTGCTGTCCTCTGAATACATA  
 GAGAGACACATTGAACATGGAGGCAAGACTGTGGAAGTTAAAGGAGGAGAGCACTGGTTA  
 CTACCAGGCCATATCCGAGGAAACCTGACTCATTGTTGCATTGTCAACATGCCACGGA  
 CTTTCATGGGATGTTCTATGACGGGGACCACACATATCTCATTGAGCCAGAGAAAATGAC  
 ACTACTCAAGAGGANTCCATTTTCATTNCAGTTTACAATCCAGACTGGTTGAATTTTCC  
 TTGGATGATCCTCCATCTGAATTTTCAGCAAGTAAACATTACTTCTCAAATTNATTTTG  
 AAGCCCAGACCCAAAAGGAGTAAACGGCCGCTTCGTGATATTCTCGTATGTAATAAAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021723 unedited  
 NTTCTTTGACTATGGACCCGCGCCGCATNCTAAGATCGAGTTTTTTTTTTTTTTTTTTTCT  
 TGGTAAAAATCACTTTATTTGCTACATCTTCAATCTGTCTGCCCTTCTGTTCTTGGCTT  
 GAGCTATGTGGCAACACTGCCAACACTCACCCAAACCTTGGCCTGATGGATCGCTTAT  
 GGTTCATATCAACAATCACATCCCTTCTGTGCATGAAAAATGCTGTTTTACATTATGTAAT  
 TTTGGATCATTAAATTGCTTTCCAAACATTTCAAAGACTTTCAAAGAGAGGTCCATTAC  
 AGAAGACATAAACACACAGTATAAAATGCTGCCTTCTAACTCGGCCCTTCAAGTTGGGCA  
 TGATATGTAATCAAATTGATTACATATGAAGATGATATGGATTTTGTCCATGGATACTAT  
 GGGAGAGGATCAAATTTAAGAGAGTATATCTGAAAACCTGTCTGCAGATTCCATTCCTCT  
 TAAGAACACACAGCAAATGAGGAAATCAGAAGTAACTTACAGCAGACCATGTGATTGA  
 GCCCATCAATCTCCAGCCTCACTAGGGTAGCTAGCTTTCTTTTGGAAATGACAGATCTGCC  
 ATTATAACAGCTATCAAACCTTTGGTTTTAAAGAAGGGCCTTTTAAAATAGAATCTTATTT  
 TCCTATGGATTAATAATATATGTTTTCAAAGCATCAGATTCTTCCCCACCAGNTGTTAG  
 CGCAACTTCGCAGATGCTGCATCTCTGTGGTTTAGATCTAACTTAAACCCCTTATGAATGG  
 TTGAAGCTGCTCACTTCAACAGTATAATTTCCGTGATCTGCTTCCAGGCCAGGCAGATGA  
 CTTGTTGGGATTACATCCATGACGACAATATTCTTATTAACATGCCAAAGTTGTTTGTG  
 TTAACCAATCATCATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021723

**Insert Size:**

5270 bp

**OTI Disclaimer:**

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).

**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\\_021723.2](#), [NP\\_068369.1](#)

**RefSeq Size:** 9334 bp

**RefSeq ORF:** 2721 bp

**Locus ID:** 53616

**UniProt ID:** [Q9P0K1](#)

**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 (1), also known as epsilon, encodes isoform 1, which is proteolytically processed to generate the mature protein. 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.