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# Product datasheet for SC125245

## ADAM18 (NM_014237) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ADAM18 (NM_014237) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | ADAM18 |
| **Synonyms:** | ADAM27; tMDCIII |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |



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**Fully Sequenced ORF:**

>NCBI ORF sequence for NM_014237, the custom clone sequence may differ by one or more nucleotides

ATGTTCCTTCTCCTCGCCCTCCTCACTGAGCTTGGAAGACTGCAAGCCCACGAAGGTTCTGAAGGAATAT
TTCTGCATGTCACAGTTCCACGGAAGATTAAGTCAAATGACAGTGAAGTTTCAGAGAGGAAGATGATTTA
CATCATTACAATTGATGGACAACCTTACACTCTACATCTCGGAAAACAATCATTCTTACCCCAGAACTTT
TTGGTTTATACATATAATGAAACTGGATCTTTGCATTCTGTGTCTCCATATTTTATGATGCATTGCCATT
ACCAAGGATATGCTGCCGAATTTCCAAATTCATTTGTGACACTCAGTATATGTTCTGGTCTCAGGGGATT
TCTCCAGTTTGAAAATATCAGTTATGGAATTGAACCAGTAGAATCTTCAGCAAGATTTGAGCATATAATT
TATCAAATGAAAAATAATGATCCAAATGTATCCATTTTAGCAGTAAATTACAGTCATATTTGGCAGAAAG
ACCAGCCCTACAAAGTTCCTTTAAACTCACAGATAAAAAATCTTTCAAAACTATTACCCCAATATCTGGA
AATATACATTATAGTGGAAAAAGCTTTGTATGATTATATGGGATCTGAAATGATGGCTGTAACACAAAAA
ATTGTCCAGGTTATTGGGCTTGTCAACACTATGTTTACCCAGTTCAAATTGACTGTTATACTGTCTTCCT
TGGAATTGTGGTCAAATGAAAACCAGATTTCCACCAGTGGGGATGCTGATGATATATTACAAAGATTTTT
GGCATGGAAACGGGACTATCTCATCCTACGGCCCCATGACATAGCATACTTACTTGTTTACAGGAAACAT
CCTAAATATGTGGGAGCAACATTTCCTGGCACTGTATGCAATAAAAGCTATGATGCAGGTATTGCTATGT
ATCCAGATGCAATAGGTTTGGAGGGATTTTCGGTTATTATAGCTCAACTGCTTGGCCTTAATGTAGGATT
AACATATGATGACATCACTCAGTGTTTCTGTCTGAGAGCTACATGCATCATGAATCATGAAGCAGTGAGT
GCCAGTGGTAGAAAGATTTTTAGCAACTGCAGCATGCACGACTATAGATATTTTGTTTCAAAATTTGAGA
CTAAATGCCTTCAGAAGCTTTCAAATTTGCAACCATTACATCAAAATCAACCAGTGTGTGGTAATGGGAT
TTTGGAATCCAATGAAGAATGTGACTGTGGTAATAAAAATGAATGTCAATTTAAGAAGTGCTGTGATTAT
AACACATGTAAACTGAAGGGCTCAGTAAAATGTGGTTCTGGACCATGTTGTACATCAAAGTGTGAGTTGT
CAATAGCAGGCACTCCATGTAGAAAGAGTATTGATCCAGAGTGTGATTTTACAGAGTACTGCAATGGAAC
CTCTAGTAATTGTGTTCCTGACACTTATGCATTGAATGGCCGTTTGTGCAAGTTGGGAACTGCCTATTGC
TATAACGGACAATGTCAAACTACTGATAACCAGTGTGCCAAGATATTTGGAAAAGGTGCTCAAGGTGCTC
CATTTGCCTGTTTTAAAGAAGTTAATTCTCTGCATGAAAGATCTGAAAACTGTGGTTTTAAAAATTCACA
ACCATTACCTTGTGAACGGAAGGATGTTCTCTGTGGAAAATTAGCTTGTGTTCAGCCACATAAAAATGCT
AATAAAAGTGACGCTCAATCTACAGTTTATTCATATATTCAAGACCATGTATGTGTATCTATAGCCACTG
GTTCCTCCATGAGATCAGATGGAACAGACAATGCCTATGTGGCTGATGGCACCATGTGTGGTCCAGAAAT
GTACTGTGTAAATAAAACCTGCAGAAAAGTTCATTTAATGGGATATAACTGTAATGCCACCACAAAATGC
AAAGGGAAAGGGATATGTAATAATTTTGGTAATTGTCAATGCTTCCCTGGACATAGACCTCCAGATTGTA
AATTCCAGTTTGGTTCCCCAGGGGGTAGTATTGATGATGGAAATTTTCAGAAATCTGGTGACTTTTATAC
TGAAAAAGGCTACAATACACACTGGAACAACTGGTTTATTCTGAGTTTCTGCATTTTTCTGCCGTTTTTC
ATAGTTTTCACCACTGTGATCTTTAAAAGAAATGAAATAAGTAAATCATGTAACAGAGAGAATGCAGAGT
ATAATCGTAATTCATCCGTTGTATCAGAAAGCGATGACGTGGGACATTAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_014237 unedited
CAGCACTCGTAATACGCCTCACTATATGGCGGCCGCGAATTCGGCACCAGGTGGCTCCTG
CGCTCTGGCTGAGCCATGTTCCTTCTCCTCGCCCTCCTCACTGAGCTTGGAAGACTGCAA
GCCCACGAAGGTTCTGAAGGAATATTTCTGCATGTCACAGTTCCACGGAAGATTAAGTCA
AATGACAGTGAAGTTTCAGAGAGGAAGATGATTTACATCATTACAATTGATGGACAACCT
TACACTCTACATCTCGGAAAACAATCATTCTTACCCCAGAACTTTTTGGTTTATACATAT
AATGAAACTGGATCTTTGCATTCTGTGTCTCCATATTTTATGATGCATTGCCATTACCAA
GGATATGCTGCCGAATTTCCAAATTCATTTGTGACACTCAGTATATGTTCTGGTCTCAGG
GGATTTCTCCAGTTTGAAAATATCAGTTATGGAATTGAACCAGTAGAATCTTCAGCAAGA
TTTGAGCATATAATTTATCAAATGAAAAATAATGATCCAAATGTATCCATTTTAGCAGTA
AATTACAGTCATATTTGGCAGAAAGACCAGCCCTACAAAGTTCCTTTAAACTCACAGATA
AAAAATCTTTCATAACTATTACCCCAATATCTGGAAATATACATTATAGTGGAAAAAGCT
TTGTATGATTATATTGGATCTGAAATGATGGCTGTAACACANAAAATTGTCAGGTTATTG
GGCTTGTCAACACTATGTTTACCCGTTCAAATGACTGTATACTGTCTCCCGGAAATGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_014237 unedited
CTGCAGTGCAACTTCCCGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCG
GGATCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTT
TTTTTTTGGAGGGCACGCAGGCTTTATTTTCCAAAAGTTTGACATTTACAATGCATTGGG
GATAACGTAAGGTTATAAATAAAGCACATTCGTTCCTTTAGGTTATTTGCTATGGAAGTT
CTGTGCAATATTAATGTCCCACGTCATCGCTTTCTGATACAACGGATGAATTACGATTAT
ACTCTGCATTCTCTCTGTTACATGATTTACTTATTTCATTTCTTTTAAAGATCACAGTGG
TGAAAACTATGAAAAACGGCAGAAAAATGCAGAAACTCAGAATAAACCAGTTGTTCCAGT
GTGTATTGTAGCCTTTTTCAGTATAAAAGTCACCAGATTTCTGAAAATTTCCATCATCAA
TACTACCCCCTGGGGAACCAAACTGGAATTTACAATCTGGAGGTCTATGTCCAGGGAAGC
ATTGACAATTACCAAAATTATTACATATCCCTTTCCCTTTGCATTTTGTGGTGGCATTAC
AGTTATATCCCATTAAATGAACTTTTCTGCAGGTTTTATTTACACAGTACATTTCTGGAC
CACACATGGTGCCATCAGCCACATAAGCATTGGCTGTTCCATCCGGTCTCATGGGGAACC
AGTTGCTATAGATACACATACCTGGNCCTGATATATTGAATAACTGTGGATTGAGCGTCC
CCT

**Restriction Sites:** Please inquire

**ACCN:** NM_014237

**Insert Size:** 2500 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_014237.1, NP_055052.1

**RefSeq Size:** 2248 bp

**RefSeq ORF:** 2220 bp

**Locus ID:** 8749

**UniProt ID:** Q9Y3Q7

**Cytogenetics:** 8p11.22

**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 biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The encoded preproprotein is proteolytically processed to generate the mature sperm surface protein. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016] Transcript Variant: This variant (1) represents the longer transcript and encodes isoform 1 (disintegrin and metalloproteinase domain-containing protein 18).