

Product datasheet for **RC239281**

ADAM2 (NM_001278114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM2 (NM_001278114) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAM2
Synonyms:	CRYN1; CRYN2; CT15; FTNB; PH-30b; PH30; PH30-beta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239281 representing NM_001278114
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGCGCTTGTGTTCTGCTCAGCGGGCTCGGCGGGCTCGGATGGACAGTAATTTGATAGTTTAC
CTGTGCAAATTACAGTTCGGAGAAAATACGGTCAATAATAAAGGAAGGAATTGAATCGCAGGCATCCTA
CAAAATTGTAATTGAAGGAAAACCATATACTGTGAATTTAATGCAAAAAAATTTTTACCCATAATTTT
AGAGTTTACAGTTATAGTGGCACAGGAATTATGAAACCACTTGACCAAGATTTTCAGAATTTCTGCCACT
ACCAAGGGTATATTGAAGTTATCCAAAATCTGTGGTATGGTTAGCACATGACTGGACTCAGGGGCGT
ACTACAGTTTGAAAATGTTAGTTATGGAATAGAACCCTGGAGTCTTCAGTTGGCTTTGAACATGTAATT
TACCAAGTAAAACATAAGAAAGCAGATGTTTCCTTATATAATGAGAAGGATATTGAATCAAGAGATCTGT
CCTTTAAATTACAAAGCGTAGAGCCACAGCAAGATTTTGCAAAGTATATAGAAATGCATGTTATAGTTGA
AAAACAATTGTATAATCATATGGGGTCTGATACAACCTGTTGTCGCTCAAAAAGTTTTCCAGTTGATTGGA
TTGACGAATGCTATTTTTGTTTCATTTAATATTACAATTATTCTGTCTTCATTGGAGCTTTGGATAGATG
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ACCTTTCAAGGGAAGATGTGTGATGCAAACTATGCAGGAGGTGTTGTTCTGCACCCAGAACATAAGTC
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CAAATGCCAGTGCTCAGGAGCTGTCTGCATTATGAATCCAGAAGCAATTCATTTCAAGTGGTGTGAAGATC
TTTAGTAACTGCAGCTTCAAGACTTTGCACATTTTATTTCAAAGCAGAAGTCCAGTGTCTTCAACAATC
AGCCTCGCTTAGATCCTTTTTTCAAACAGCAAGCAGTGTGTGGTAAATGCAAAGCTGGAAGCAGGAGAGGA
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ACCTTAATTCAAAGACTGATGTATCTGAAACTGTGGTATAAGTGATTCCAGGATACACACAGTGTGAAGT
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AATCAGATCTATGGCCTGGTGGGAGATTGACAGTGGCAATTTCCACCTGTAGCTATACCAGCCAGACT
CCCTGAAAGGCGCTACATTGAGAACATTTACCATTCAAACCAATGAGATGGCCATTTTTCTTATTCATT
CCTTTCTTATTTTCTGTGTACTGATTGCTATAATGGTGAAGTTAATTTCAAAGGAAAAAATGGA
GAACTGAGGACTATTCAAGCGATGAGCAACCTGAAAGTGAGAGTGAACCTAAAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239281 representing NM_001278114
 Red=Cloning site Green=Tags(s)

MWRVLFLLSGLGGLRMDSNFDSLVPVQITVPEKIRSIIEKIGIESQASYKIVIEGKPYTVNLMQKNFLPHNF
 RVYSYSGTGIMKPLDQDFQNFCHYQGYIEGYPKSVVMVSTCTGLRGLVQFENVSYGIEPLESSVGFVHVI
 YQVKKHKADVSLYNEKDIESRDLDFKLSQVPEPQDFAKYIEMHVIVEKQLYNHMGSDTTVVAQKVFQLIG
 LTNAIFVSNITIIILSSLELWIDENKIATTGEANELLHTFLRWKTSYLVLRPHDVAFLLVYREKSNVYGA
 TFQGMCDANYAGGVVLPRTISLESLAVILAQLLSLSMGITYDDINKCQCSGAVCIMNPEAIHFSGVKI
 FSNCSEDFAHFISKQKSQLHNQPRLDPFKQAVCGNAKLEAGEECDGTEQDCALIGETCCDIATCR
 FKAGSNCAEGPCCENCLFMSKERMCRPSFEEDLPEYCNCGSSASCPENHYVQTGHPCGLNQWICIDGVCM
 SGDKQCTDTFGKEVEFGPSECYSHLNSKTDVSGNCGISDSGYTQCEVCRNQRCVSSSYLYGDCTTDKCN
 RGVCCNKKHCHCSASYLPPDCSVQSDLWPGGSDSGNFPVVAIPARLPERRYIENIYHKSMPMRWPFLLFI
 PFFIIFCVLIAIMVKVNFQRKKWRTEYSSDEQPESESEPKG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

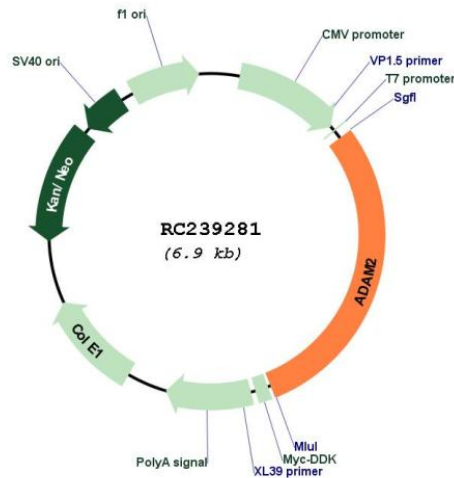
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278114

ORF Size: 2016 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_001278114.2](#)

RefSeq Size: 2495 bp

RefSeq ORF: 2019 bp

Locus ID: 2515

UniProt ID: [Q99965](#)

Cytogenetics: 8p11.22

Protein Families: Druggable Genome, Protease, Transmembrane

MW: 76 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. The encoded protein is a subunit of an integral sperm membrane glycoprotein called fertilin, which plays an important role in sperm-egg interactions. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]