

## Product datasheet for **RC221139**

### ADAM2 (NM\_001464) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM2 (NM_001464) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAM2
Synonyms:	CRYN1; CRYN2; CT15; FTNB; PH-30b; PH30; PH30-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC221139 representing NM\_001464  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTGGCGCTTGTGTTCTGCTCAGCGGGCTCGCGGGCTCGGATGGACAGTAATTTTATAGTTTAC  
CTGTGCAAATTACAGTTCGGAGAAAATACGGTCAATAATAAAGGAAGGAATTGAATCGCAGGCATCCTA  
CAAAATTGTAATTGAAGGAAAACCATATACTGTGAATTTAATGCAAAAAAATTTTTACCCATAATTTT  
AGAGTTTACAGTTATAGTGGCACAGGAATTATGAAACCACTTGACCAAGATTTTCAGAATTTCTGCCACT  
ACCAAGGGTATATTGAAGGTTATCCAAAATCTGTGGTATGGTTAGCACATGACTGGACTCAGGGGCGT  
ACTACAGTTTGAAAATGTTAGTTATGGAATAGAACCCTGGAGTCTTCAGTTGGCTTTGAACATGTAATT  
TACCAAGTAAAACATAAGAAAGCAGATGTTTCCTTATATAATGAGAAGGATATTGAATCAAGAGATCTGT  
CCTTTAAATTACAAAGCGTAGAGCCACAGCAAGATTTTGCAAAGTATATAGAAATGCATGTTATAGTTGA  
AAAACAATTGTATAATCATATGGGGTCTGATACAACCTGTTGTCGCTCAAAAAGTTTTCCAGTTGATTGGA  
TTGACGAATGCTATTTTTGTTTCATTTAATATTACAATTATTCTGTCTTCATTGGAGCTTTGGATAGATG  
AAAATAAAATTGCAACCACTGGAGAAGCTAATGAGTTATTACACACATTTTTAAGATGGAACATCTTA  
TCTTGTGTTTACGTCTCATGATGTGGCATTGTTACTTGTGTTACAGAGAAAAGTCAAATTATGTTGGTGCA  
ACCTTTCAAGGGAAGATGTGTGATGCAAACTATGCAGGAGGTGTTGTTCTGCACCCAGAACATAAGTC  
TGGAACTCACTTGCAAGTATTTTGTAGTCAATTTAGAGCCTTAGTATGGGGATCACTTATGATGACATTA  
CAAATGCCAGTGCTCAGGAGCTGTCTGCATTATGAATCCAGAAGCAATTCATTTCAAGTGGTGAAGATC  
TTTAGTAAGTGCAGCTTCAAGACTTTGCACATTTTATTTCAAAGCAGAAGTCCCAGTGTCTTCAACAATC  
AGCCTCGCTTAGATCCTTTTTTCAAACAGCAAGCAGTGTGTGTAATGCAAAGCTGGAAGCAGGAGAGGA  
GTGTGACTGTGGGACTGAACAGGATTGTGCCCTTATTGGAGAAAACATGCTGTGATATTGCCACATGTAGA  
TTTAAAGCCGTTCAAACCTGTGCTGAAGGACCATGCTGCGAAAACCTGTCTATTTATGTCAAAGAAAAGAA  
TGTGTAGGCCCTTCTTTGAAAGATGCGACCTCCCTGAATATTGCAATGGATCATCTGCATCATGCCCAGA  
AAACCACTATGTTCAGACTGGGCATCCGTGTGGACTGAATCAATGGATCTGTATAGATGGAGTTTGTATG  
AGTGGGGATAAACAATGTACAGACACATTTGGCAAAGAAGTAGAGTTTGGCCCTTCAGAATGTTATTCTC  
ACCTTAATTCAAAGACTGATGTATCTGGAACCTGTGGTATAAGTGATTCCAGGATACACACAGTGTGAAGC  
TGACAATCTGCAGTGCAGAAAATTAATATGTAATATGTAGGTAATTTTTATTACAAATCCAAGAGCC  
ACTATTTTATGCCAACATAAGTGGACATCTCTGCATTGCTGTGGAATTTGCCAGTGTATGCAGACA  
GCCAAAAGATGTGGATAAAAAGATGGAACCTCTTGTGGTTCAAATAAGGTTTGCAGGAATCAAAGATGTGT  
GAGTTCCTCATACTTGGGTTATGATTGTACTACTGACAAATGCAATGATAGAGGTGTATGCAATAACAAA  
AAGCACTGTCACTGTAGTGCTTCATATTTACCTCCAGATTGCTCAGTTCAATCAGATCTATGGCCTGGTG  
GGAGTATTGACAGTGGCAATTTTCCACCTGTAGCTATACCAGCCAGACTCCCTGAAAGGCGCTACATTGA  
GAACATTTACCATTCAAACCAATGAGATGGCCATTTTCTTATTATTCTTTCTTTATTTTCTGT  
GTACTGATTGCTATAATGGTGAAAGTTAATTTCAAAGGAAAAAATGGAGAAGTGGAGACTATTCAGCGG  
ATGAGCAACCTGAAAGTGAGAGTGAACCTAAAGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221139 representing NM\_001464  
Red=Cloning site Green=Tags(s)

MWRVLFLLSGLGGLRMDSNFDSLVPVQITVPEKIRSIIEKIGIESQASYKIVIEGKPYTVNLMQKNFLPHNF  
RVYSYSGTGIMKPLDQDFQNFCHYQGYIEGYPKSVVMVSTCTGLRGVLQFENVSYGIEPLESSVGFHEHVI  
YQVKHKKADVSLYNEKDIESRDLSFKLQSVEPQQDFAKYIEMHVIVEKQLYNHMGSDTTVVAQKVFQLIG  
LTNAIFVSNITIIILSSLELWIDENKIATTGEANELLHTFLRWKTSYLVRPHDVAFLLVYREKSNYVGA  
TFQGMCDANYAGGVVLHPRTISLES LAVILAQLLSLSMGITYDDINKQCQSGAVCIMNPEAIHFSGVKI  
FSNCSFEDFAHFISKQKSQCLHNQPRLDPFKQAVCGNAKLEAGEECDGTEQDCALIGETCCDIATCR  
FKAGSNCAEGPCCENCLFMSKERMCRPSFEEDLPEYCNCGSSASCPENHYVQTGHPCGLNQWICIDGVC  
SGDKQCTDTFGKEVEFGPSECYSHLNSKTDVSGNCGISDSGYTQCEADNLQCGKLIKCYVKGFLQLIPRA  
TIIYANISGHLCAIEVAFSDHADSQKMWIKDGTSCGSNKVCRNQRVSSSYLYGDCCTDKCNDRGVCNNK  
KHCHCSASYLPPDCSVQSDLWPGGSDSGNFPPVAIPARLPERRYIENIYHSPMRWPFLLFIPFFIIFC  
VLIAIMVKVNFQRKKWRTEYSSDEQPESESEPKG

TRTRPLEQKLISEEDLANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8116\\_c12.zip](https://cdn.origene.com/chromatograms/mk8116_c12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001464

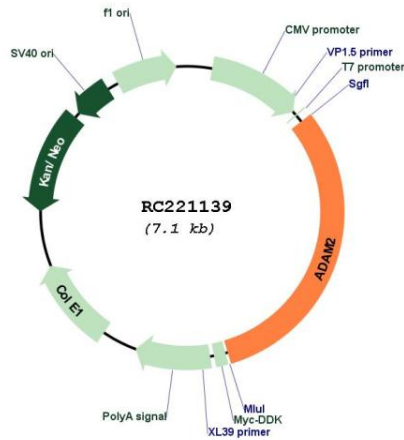
**ORF Size:** 2205 bp

**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](#)

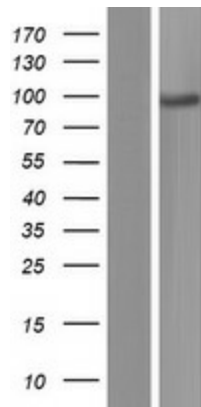
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<a href="#">NM_001464.5</a>
<b>RefSeq Size:</b>	2657 bp
<b>RefSeq ORF:</b>	2208 bp
<b>Locus ID:</b>	2515
<b>UniProt ID:</b>	<a href="#">Q99965</a>
<b>Cytogenetics:</b>	8p11.22
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>MW:</b>	82.3 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC221139



Western blot validation of overexpression lysate (Cat# [LY419910]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221139 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).