

## Product datasheet for **RG222510**

### ADAM19 (NM\_033274) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | ADAM19 (NM_033274) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | ADAM19                                    |
| Synonyms:                 | FKSG34; MADDAM; MLTNB                     |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>RG222510 representing NM\_033274  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCAGGGGGCGCAGGCGCCCGGCTCTGCTTGTGCGCTTGGCCCTGCAGCCCTCCGGCCGCGGG  
 CGGCGCGGGAGCCTGGATGGACAAGAGGAAGTGAGGAAGGCAGCCCAAGCTGCAGCATGAACCTTATCAT  
 ACCTCAGTGGAAGACTTCAGAAAAGCCCGTGAGAGAAAAGCATCCACTCAAAGCTGAGCTCAGGGTAATG  
 GCTGAGGGGCGAGAAGTATCTGGACCTGGAGAAGAATGAGCAACTTTTTGCTCCTTCTACACAGAAA  
 CCCATTACTTCAAGTGGTAACCTCAAACCACCACCGGAAATGGAGGATCACTGCTTTTACCACGG  
 CACGGTGAGGGAGACAGAAGTGTCCAGCGTCACGCTCAGCACTTGCCGAGGAATTAGAGGACTGATTACG  
 GTGAGCAGCAACCTCAGTACGTATCGAGCCCTCCCTGACAGCAAGGGCCAACACCTTATTTACAGAT  
 CTGAACATCTCAAGCCGCCCCGGGAACTGTGGGTTGAGCACTCAAGCCACCACAGGACTGGGC  
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 TATGTGGAGCTTACCTCGTGGCTGATTATTTAGAGTTTTCAGAAGAATCGACGAGACCAGGACGCCACCA  
 AACACAAGCTCATAGAGATCGCCAATATGTTGATAAGTTTTACCGATCCTTGAACATCCGGATTGCTCT  
 CGTGGGCTTGAAGTGTGGACCCACGGGAACATGTGTGAAGTTTCAGAGAATCCATATTCTACCCTCTGG  
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 ACAACGGCATGTGCTCACCTACCAGGAGCAGTGCCAGCAGCTGTGGGACCCGGAGCCGACCTGCCCC  
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 AAGTGTGGCTACAACCATATTTGCTTTGAGGGGAGTGCAGGAACACCTCCTTTTGAAGTGAAGGCT  
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 CAAACCCAGTGCCAGGCCGAGGAGCTCCCCAGGCCAGGAGTGCATCCCCACTGCGGCCCCCTGGTGC  
 TGGCCCTCAGCAGTCCCGCCTCTGGCAGCACTGCCCAAGTTTCCAGAATACAGATCACAGAGGGCT  
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**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

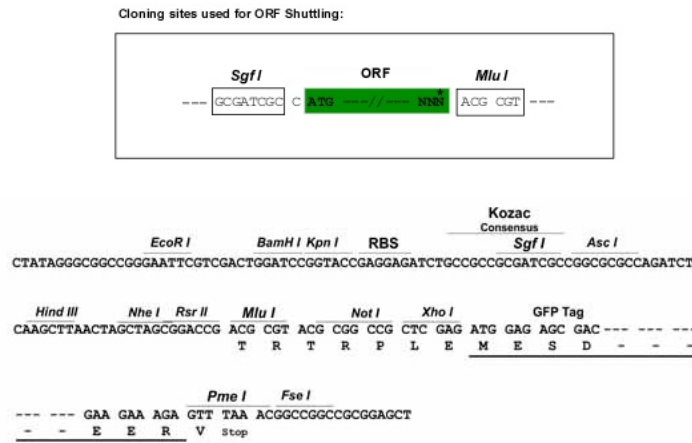
**Protein Sequence:** >RG222510 representing NM\_033274  
 Red=Cloning site Green=Tags(s)

MPGGAGAARLCLLAFALQPLRPRAAREPGWTRGSEEGSPKLQHELIIIPQWKTSESPVREKHPLKAEALRVM  
 AEGRELILDLEKNEQLFAPSYTETHYSSGNPQTTRKLEDHCFYHGTVRETELSSVTLSTCRGIRGLIT  
 VSSNLVSYVIEPLPDSKGOHLIYRSEHLKPPPGNCGFEHSKPTTRDVALQFTQQTKKRPRRMKREDLNSMK  
 YVELYL VADYLEFQKNRRDQDATKHKLEIEIANVVDKFYRSLNIRIALVGLVWTHGNMCEVSENPYSTLW  
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 SPHCPTNFYQMDGTPCEGGQAYCYNGMCLTYQECCQLWGPGARAPDLCEKVNVAAGDTFGNCGKDMNG  
 EHRKCNMRDAKCGKIQCSSEARPLESNAVPIIDTTIIMNGRQIQCRGTHVYRGPPEEGDMLDPGLVMTGT  
 KCGYNHICFEGQCRNTSFFETEGCGKKNCHGVCNNQNCCHLPGWAPPFCNTPGHGGSIDSGMPMPESV  
 GPVVAGLVAILVLAVLMLMYCCRQNNKLGQLKPSALPAKLQQFSCPFVRSQNSGTGHANPTFKLQTP  
 QGKRKVINTPEILRKPSQPPRPPDYLRGGSPAPLPAHLSRAARNSPGPGSQIERTESSRPPPSRPI  
 PPAANCIVSQDFSRPPPKALPANVPVGRRLPRPGGASPLRPPGAGPQSRPLAALAPKFPEYRSQRA  
 GMISSKI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

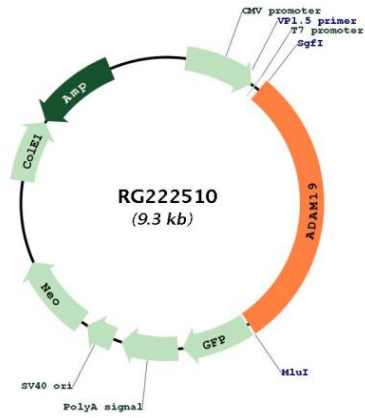
**Cloning Scheme:**



**ACCN:** NM\_033274

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 2754 bp  |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | 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_033274.2</a> , <a href="#">NP_150377.1</a>  |
| <b>RefSeq Size:</b>           | 6466 bp  |
| <b>RefSeq ORF:</b>            | 2757 bp  |
| <b>Locus ID:</b>              | 8728   |
| <b>UniProt ID:</b>            | <a href="#">Q9H013</a>   |
| <b>Cytogenetics:</b>          | 5q33.3   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <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. This member is a type I transmembrane protein and serves as a marker for dendritic cell differentiation. It has been demonstrated to be an active metalloproteinase, which may be involved in normal physiological processes such as cell migration, cell adhesion, cell-cell and cell-matrix interactions, and signal transduction. It is proposed to play a role in pathological processes, such as cancer, inflammatory diseases, renal diseases, and Alzheimer's disease. [provided by RefSeq, May 2013] |

Product images:



Circular map for RG222510