

## Product datasheet for **RG205168**

### ADAM20 (NM\_003814) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM20 (NM_003814) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAM20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205168 representing NM\_003814  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTCCAGCTCCACCAGGACACAGATCCCCAGATCCCTAAAGGTCAGCCATGCACCCTGAACAGCTCAG  
 AGGGAGGAGCCAGACCAGCAGTGCCTCACACCTTGTTCTTCTGCTCTAGACAGATGGCTCCATATGA  
 CAGCTTCATAATGGCAGTGGGTGAGCCCTGGTGCACATCAGGGTCACTTCTGCTGCTCTGGTTTGGG  
 ATGTTTTTGTCTATTTCTGGCCACTCTCAGGCCAGGCCCTCCCAGTATTTCACTTCTCCAGAAGTGGTGA  
 TCCCTTTGAAGGTGATCAGCAGGGGCAGAGGTGCAAAGGCTCCTGGATGGCTCTCCTATAGCCTGCGGTT  
 TGGGGGACAGAGATACATTGTCCACATGAGGGTAAATAAGCTGTTGTTTGTGCTGCACACCTTCTGTGTT  
 ACCTACACAGAGCAGCATGCCCTGCTCCAGGATCAGCCCTTCATCCAGGATGACTGCTACTACCATGGTT  
 ATGTGGAGGGGTCCTGAGTCCCTGGTGGCCCTTAGTACCTGTTCTGGGGGCTTCTTGGAAATGCTACA  
 GATAAATGACCTGTTTATGAAATCAAGCCAATTAGTGTTCGCCACATTTGAACACCTAGTATATAAG  
 ATAGACAGTGATGATACACAGTTTCCACCTATGAGATGTGGGTTAACAGAAGAGAAAAATAGCACACCAGA  
 TGGAGTTGCAATTGTCATATAATTTCACTCTGAAGCAAAGTTCTTTTGTGGGCTGGTGGACCCATCAGCG  
 GTTTGTTGAGCTGGTAGTGGTCGTGGATAATATTAGATATCTTTTCTCTCAAAGTAATGCAACAACAGTG  
 CAGCATGAAGTATTTAACGTTGTCAATATAGTGGATTCCTTCTATCATCCTTTGGAGGTTGATGTAATTT  
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 GGACTTTTCTATTTGGAAGAATTATAACCTTAATAATCGACTACAACATGATGTTGCACATCTTTTCATA  
 AAAGACACACAAGGCATGAAGCTTGGTGTGCCTATGTTAAAGGAATATGCCAGAATCCTTTTAATACTG  
 GAGTTGATGTTTTTGAAGACAACAGGTTGGTGTGTTTTTGGCAATTACTTTGGGCCACGAGCTTGGTCATA  
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 GTATTCACCCGCTCCATATCCAGGGAATATTTAGACTGAAGTACTGTGGAACTAGTGGTTGAAGA  
 AGGGGAGGAATGTGACTGTGGAACCATACGGCAGTGTGCAAAAGATCCCTGTTGTCTGTTAACTGTACT  
 CTACATCCTGGGGCTGCTTGTGCTTTTGGAAATGTTGCAAAGACTGCAAATTTCTGCCATCAGGAACTT  
 TATGTAGACAACAAGTTGGTGAATGTGACCTCCAGAGTGGTGAATGGGACATCCCATCAATGCCCAGA  
 TGATGTGTATGTGCAGGACGGGATCTCCTGTAATGTGAATGCCTTCTGCTATGAAAAGACGTGTAATAAC  
 CATGATATACAATGTAAGAGATTTTTGGCCAAGATGCAAGGAGTGCATCTCAGAGTTGCTACCAAGAAA  
 TCAACACCAAGGAAACCGTTTCGGTCACTGTGGTATTGTAGGCACAACATATGTAATGTTGGACCCC  
 TGATATCATGTGTGGGAGGGTTCAGTGTGAAAATGTGGGAGTAATCCCAATCTGATAGAGCATTCTACA  
 GTGCAGCAGTTTACCTCAATGACACCCTTGTGGGGCACTGATTATCATTTAGGGATGGCTATACCTG  
 ATATTGGTGAGGTGAAAGATGGCACAGTATGTGGTCCAGAAAAGATCTGCATCCGTAAGAAGTGTGCCAG  
 TATGGTTCATCTGTCAAGCCTGTGAGCCTAAGACCTGCAACATGAGGGGAATCTGCAACAACAAACAA  
 CACTGTCACTGCAACCATGAATGGGCACCCCATACTGCAAGGACAAAGGCTATGGAGGTAGTGTGATA  
 GTGGCCCACCTCCTAAGAACAACATGGAAGGATTAATGTGATGGGAAAGTTGCGTTACCTGTCACTATT  
 GTGCCTTCTTCTTTGGTTGCTTTTTTATTATTTTGTTCATATGTGCTTTTTTAAGAAACGCACAAAAAGT  
 AAAGAAGATGAAGAAGGA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG205168 representing NM\_003814  
Red=Cloning site Green=Tags(s)

```
MVQLHQDTPQIPKGQPCTLNSSEGGARPAVPHTL FSSALDRWLHNSFIMAVGEPLVHIRVTLLLLWFG
MFLSISGHSQARPSQYFTSPEVVIPLKVISRGRGAKAPGWL SYSLRFGGQRYIVHMRVNKLLFAAHLPVF
TYTEQHALLQDQPFIQDDCYHGYVEGVPELVALSTCSGGFLGMLQINDLVYEIKPISVSATFEHLVYK
IDSDDTQFPPMRCGLTEEKIAHQMELQLSYNFTLKQSSFVGGWTHQRFVELVVVDNIRYLFQSNAATTV
QHEVFNVVNI VDSFYHPLEVDVILTGDIDWTASNPLPTSGDLDNVLEDFSIWKNYNLNNRLQHDVAHLFI
KDTQGMKLGVAAYVKGICQNPFTGVDVFDNRLVVFAITLGHGELGHNLMQHDQWCVCELQWCMHAYR
KVTTKFSNCSYAQYWDSTISSGLCIQPPPYPGNIFRLKYCGNLVVEEGEECDGDIRQCAKDPCCLLNCT
LHPGAACAFGICCKDKFLPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNN
HDIQCKEIFGQDARSASQSCYQEINTQGNRFHGCGIVGTTYVKCWTPDIMCGRVQCENGVIPNLIEHST
VQQFHLNDTTCWGTDYHLGMAIPDIGEVKDGTVCGPEKICIRKKCASMVHLSQACQPKTCNMRGICNNKQ
HCHCNHEWAPPYCKDKGYGGSADSGPPPKNMEGLNVMGKLRYSLLCLLPLVAFLLFCLHVLFKKRTKS
KEDEEG
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003814

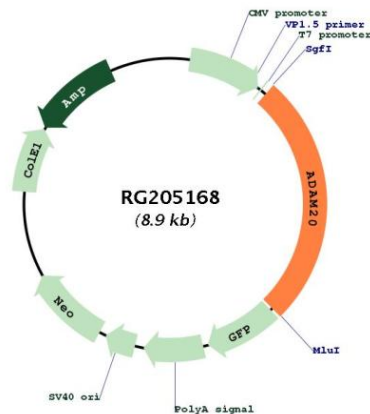
**ORF Size:** 2328 bp

**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\\_003814.4](#), [NP\\_003805.3](#)
- RefSeq Size:** 2807 bp
- RefSeq ORF:** 2181 bp
- Locus ID:** 8748
- UniProt ID:** [O43506](#)
- Cytogenetics:** 14q24.2
- 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. The expression of this gene is testis-specific. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG205168