

## Product datasheet for **RG223044**

### ADAM7 (NM\_003817) Human Tagged ORF Clone

#### Product data:

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | ADAM7 (NM_003817) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | ADAM7                                    |
| Synonyms:                 | ADAM-7; ADAM 7; EAPI; GP-83; GP83        |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide  
Sequence:**

>RG223044 representing NM\_003817  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGCTTCCCGGGTGTATATTCTTGATGATTTTACTCATTCTCAGGTTAAAGAAAAGTTCATCCTTGGAG  
 TAGAGGGTCAACAACCTGGTTCGTCTAAAAAGCTTCTCTGATACAGAAGCGAGATACTGGACACACCCA  
 TGATGATGACATACTGAAAACGTATGAAGAAGAATTGTTGTATGAAATAAACTAAATAGAAAAACCTTA  
 GTCCTTCACTTTCTAAGATCCAGGGAGTTCCTAGGCTCAAATTACAGTGAACATTCTACTCCATGAAAG  
 GAGAAGCGTTCACCGGCATCTCAGATCATGGATCATTGTTTTTACCAAGGATCCATAGTACACGAATA  
 TGATTCAGCTGCCAGTATCAGTACGTGAATGGTCTAAGGGGATTCTTCAGAATAAACGACCAAGATAC  
 CTCATTGAACAGTGAATACTCAGATGAGGGAGAACATTTGGTGTCAAATATAACCTGAGGGTGCCGT  
 ATGGTGCCAAATTATTCTGTACAGAGCTTAATTTTACCAGAAAACTGTTCCAGGGGATAATGAATCTGA  
 AGAAGACTCCAAAATAAAAGGCATCCATGATGAAAAGTATGTTGAATTGTTCAATTGTTGCTGATGATACT  
 GTGTATCGCAGAAATGGTCATCCTCACAATAAACTAAGGAACCGAATTTGGGGAATGGTCAATTTTGTC  
 ACATGATTTATAAAACCTTAAACATCCATGTGACGTTGGTTGGCATTGAAATATGGACACATGAAGATAA  
 AATAGAATATATTCAAATATAGAACTACCTTATTGCGTTTTTCATTTTGGCAAGAAAAGATCCTTAA  
 ACACGGAAGGATTTTGATCATGTTGTTACTCAGTGGGAAGTGGCTCTACTCACATGTGCAAGGAATTT  
 CTTATCCAGGGGGTATGTGCCTGCCCTATTATCCACAGTATCATTAAAGGATCTTTTACCTGACACAAA  
 CATAATTGCAACAGAATGGCACATCACTGGGGCATAACCTTGGGATGCAGCATGACGAGTTCCTATGC  
 ACCTGTCTTTCAGGAAAAATGCGTGATGGACAGTATGGAAGCATTCTGCACTGAAATTCAGTAAATGCA  
 GCCAAAACCAATACCACAGTACTTGAAGGATTATAAGCCAACATGCATGCTCAACATTCATTTCTTAA  
 CAATTTTCATGATTTTCAATTTTGTGGAACAAGAAGTTGGATGAGGGTGAAGAGTGTGACTGTGGCCCT  
 GCTCAGGAGTGTACTAATCCTTGCTGTGATGCACACATGTGTACTGAAGCCAGGATTTACTTGTGCAG  
 AAGGAGAATGCTGTGAATCTTGTCAGATAAAAAAGCAGGGTCCATATGCAGACCGGCGAAAGATGAATG  
 TGATTTTCTGAGATGTGCACTGGCCACTCGCCTGCCTGTCTAAGGACCAGTTCAGGGTCAATGGATTT  
 CCTTGCAAGAACTCAGAAGGCTACTGTTTCATGGGAAATGTCCAACCTCGTGAGGATCAGTGCTCTGAAC  
 TATTTGATGATGATGCAATAGAGAGTCATGATATCTGCTACAAGATGAATACAAAAGGAAATAAATTTGG  
 ATACTGCAAAAACAAGGAAAACAGATTTCTTCCCTGTGAGGAGAAAGATGTCAGATGTGAAAGATCTAC  
 TGCACTGGAGGGGAGCTTCTCTCTCCTTGAGAGAAGACAAGACTTATCACCTTAAGGATCCCCAGAAGA  
 ATGCTACTGTCAAATGCAAACTATTTTTTATACCATGATTCTACAGACATTGGCCTGGTGGCGTCAGG  
 AACAAAATGTGGAGAGGGAATGGTGTGCAACAATGGTGAATGTCTAAACATGGAAAAGGTCTATATCTCA  
 ACCAATTGCCCTCTCAGTGCAATGAAAATCCTGTGGATGGCCACGGAATCCAGTGCCACTGTGAGGAAG  
 GACAGGCACCTGTAGCCTGTGAAGAAACCTTACATGTTACCAATATCACCATCTTGGTTGTTGTGCTTGT  
 CCTGGTTATTGTCGGTATCGGAGTTCTTATACTATTAGTTCGTTACCGAAAATGTATCAAGTTGAAGCAA  
 GTTCAGAGCCCACCTACAGAAACCCTGGGAGTGGAGAACAAGGATACTTTGGTGATGAGCAGCAGATAA  
 GGACTGAGCCAATCCTGCCAGAAATCATTTCCTAAATAAACCTGCAAGTAAAGATTCAAGAGGAATCGC  
 AGATCCCAATCAAAGTGCCAAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG223044 representing NM\_003817  
 Red=Cloning site Green=Tags(s)

MLPGCIFLMILLIPQVKEKFI LGVEGQQLVRPKKLPLIQKRDTHDDILKTYEEELLYEIKLNRKTL  
 VLHLLRSREFLSNYSETFYSMKGEAFTRHPQIMDHC FYQGSIVHEYDSAASISTCNGLRGFFRINDQRY  
 LIEPVKYSDEGEHLVFKYNLRVPYGANYSC TELNFRKTVPGDNESEEDSKIKGIHDEKYVELFIVADDT  
 VYRRNGHPHNKLRNRIWGMVNFVNM IYKTLNIHVTLVGIEIWT HEDKIELYSNIETTLRFSFWQEKILK  
 TRKDFDHVVLLSGKWLYSHVQGISYPGGMCLPYYSTSI IKDLLPDTNIIANRMAHQLGHNLMQHD EFC  
 TPCSGKCVMSDGSIPALKFSKCSQNQYHQY LKDYKPTCMLNIPFPYNFHD FQFCGNKKLDEGEEDCGP  
 AQECTNPCCDAHTCVLKP GFTCAEGECCE SCQIKKAGSICRP AKDECD FPEMCTGHSPACPKDQFRVNGF  
 PCKNSEGYCFMGKCPTR EDQCSELFDDDAIESHDICYKMTKG NKFGYCKNKENRFLPCEEKDVRCKIY  
 CTGGELSSLLGEDKTYHLKDPQKNATVKCTIFLYH DSTDIGL VASGTCGEGMVCNNGECLNMEKYYIS  
 TNCP SQCNENPVDGHLQCHCEEQAPVACEETLHV TNITILVVVLV LIVIGIGVLILLVRYRCKIKLKQ  
 VQSPPTETLGVENKGYGDEQQIRTEPILPEIHFLNKPASKDSRGIADPNQSAK

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003817

**ORF Size:** 2262 bp

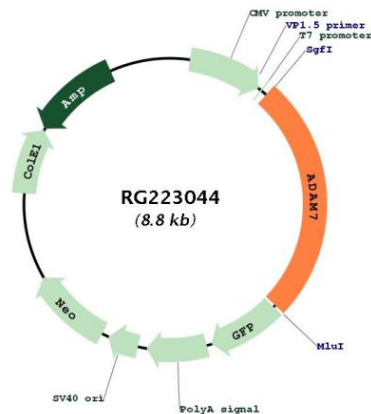
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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: | <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> |
| RefSeq:                | <u>NM_003817.1, NP_003808.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RefSeq Size:           | 2582 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq ORF:            | 2265 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Locus ID:              | 8756                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt ID:            | <u>Q9H2U9</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cytogenetics:          | 8p21.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Protein Families:      | Druggable Genome, Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Summary:          | <p>This gene encodes a member of the ADAMs family of zinc proteases. These transmembrane proteins play roles in multiple processes including cell signaling, adhesion and migration. The encoded protein lacks protease activity and may play roles in protein-protein interactions and cell adhesion processes including sperm-egg fusion. Mutations in this gene may be involved in the progression of melanoma. [provided by RefSeq, Oct 2011]</p>                                                                   |

## Product images:



Circular map for RG223044