

## Product datasheet for **RG201226**

### Annexin VII (ANXA7) (NM\_001156) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VII (ANXA7) (NM_001156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Annexin VII
Synonyms:	ANX7; SNX; SYNEXIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG201226 representing NM\_001156  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCATACCCAGGCTATCCCCAACAGGCTACCCACCTTCCCTGGATATCCTCCTGCAGGTCAGGAGT  
 CATCTTTTCCCCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCCTCCAATGGGAGGAGGTGCCTACCC  
 ACAAGTGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTACCCTGCGCCTGGAGGTTATCCAGCCCCGGA  
 GGCTATCCTGGTGCCCCACAGCCAGGGGAGCTCCATCCTATCCCGGAGTTCCTCCAGGCCAAGGATTTG  
 GAGTCCCACCAGGTGGAGCAGGCTTTTCTGGGTATCCACAGCCACCTTCACAGTCTTATGGAGGTGGTCC  
 AGCACAGGTTCCACTACCTGGTGGCTTTCCTGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACT  
 ACTTACCCTAGTCAGCCTGCCACAGTACTCAGGTCACCTCAAGGAATATCCGACCAGCTGCCAACTTCG  
 ATGCTATAAGAGATGCAGAAATCTTCGTAAGGCAATGAAGGGTTTTGGGACAGATGAGCAGGCAATTGT  
 GGATGTGGTGGCCAACCGTTCCAATGATCAGAGGCAAAAAATTAAGCAGCATTTAAGACCTCCTATGGC  
 AAGGATTTAATCAAGATCTCAAATCAGAGTTAAGTGGAAATATGGAAGAACTGATCCTGGCCCTCTTCA  
 TGCCCTCTACGTATTACGATGCCTGGAGCTTACGAAAAGCAATGCAGGGAGCAGGAATCAGGAACGTGT  
 ATTGATTGAGATTTTGTGCACAAGAACAATCAGGAAATCCGAGAAATTTGTCAGATGTTATCAGTCAGAA  
 TTTGGACGAGACCTTGAAAAGGACATTAGGTGAGATACATCAGGACATTTTGAACGTTTACTTGTGTCCA  
 TGTGCCAGGAAATCGTGATGAGAACAGAGTATAAACCAACCAATGGCTCAGGAAGATGCTCAGCGTCT  
 CTATCAAGCTGGTGGGGAGACTAGGGACCGATGAATCTTGCTTTAACATGATCCTTCCACAAGAAGC  
 TTTCTCAGCTGAGAGCTACCATGGAGGCTTATCTAGGATGGCTAATCGAGACTTGTAAAGCAGTGTGA  
 GCCGTGAGTTTTCCGGATATGTAGAAAGTGGTTTGAAGACCATCTGCAGTGTGCCCTGAACCCGCTGC  
 CTCTTTTGTGAGAGGCTCTACTATGCTATGAAAGGTGCTGGCACAGATGACTCCACCCTGGTCCGGATT  
 GTGGTCACTCGAAGTGAGATTGACCTTGTACAAATAAAACAGATGTTTCGCTCAGATGTATCAGAAGACT  
 TGGGCACAATGATTGCAGGTGACACGAGTGAGATTACCGAAGACTTCTTCTGGCTATTGTGGCCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201226 representing NM\_001156  
 Red=Cloning site Green=Tags(s)

MSYPGYPPTGYPPFPGYPPAGQESSFPPSGQYPYPSGFPMPGGGAYPQVPSSGYPGAGGYPAPGGYPAPG  
 GYPGAPQPGGAPSYPGVPPGQGFVPPGGAGFSGYPQPPSQSYGGGPAQVPLPGGFPGGQMPSQYPGGQP  
 TYPSPATVTQVTQGTIRPAANFDAIRDAEILRKAMKFGTDEQAIVDVAVANRSNDQRQKIKAAFKTSYG  
 KDLIKDLKSELGNMEELILALFMPPTYDDAWSLRKAMQAGTQERVLIEILCTRINQEIREIVRCYQSE  
 FGRDLEKDIRSDTSGHFERLLVSMCQGNRDNQSIHQMAQEDAQRLYQAGEGRLTDESCFNMILATRS  
 FPQLRATMEAYSRRMANRDLLSSVSREFSGYVESGLKTIHQCALNRPAFFAERLYYAMKGAGTDDSTLVRI  
 VVTRSEIDLVIKQMFQMYQKTLGTMIAGDTSGDYRLLLLAIVGQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001156

**ORF Size:** 1398 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\\_001156.5](#)

**RefSeq Size:** 2110 bp

**RefSeq ORF:** 1401 bp

**Locus ID:** 310

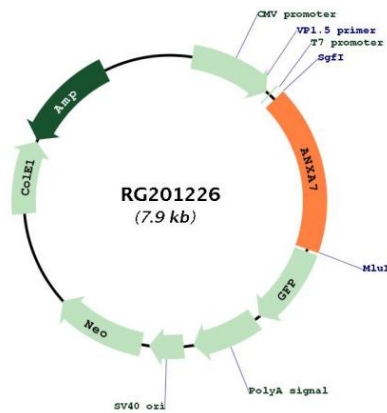
**UniProt ID:** [P20073](#)

**Cytogenetics:** 10q22.2

**Domains:** annexin

**Gene Summary:** Annexin VII is a member of the annexin family of calcium-dependent phospholipid binding proteins. The Annexin VII gene contains 14 exons and spans approximately 34 kb of DNA. An alternatively spliced cassette exon results in two mRNA transcripts of 2.0 and 2.4 kb which are predicted to generate two protein isoforms differing in their N-terminal domain. The alternative splicing event is tissue specific and the mRNA containing the cassette exon is prevalent in brain, heart and skeletal muscle. The transcripts also differ in their 3'-non coding regions by the use of two alternative poly(A) signals. Annexin VII encodes a protein with a molecular weight of approximately 51 kDa with a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. The latter domain is composed of alternating hydrophobic and hydrophilic segments. Structural analysis of the protein suggests that Annexin VII is a membrane binding protein with diverse properties, including voltage-sensitive calcium channel activity, ion selectivity and membrane fusion. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG201226