

## Product datasheet for **SC320695**

### Annexin VII (ANXA7) (NM\_001156) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VII (ANXA7) (NM_001156) Human Untagged Clone
Tag:	Tag Free
Symbol:	Annexin VII
Synonyms:	ANX7; SNX; SYNEXIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001156.2  
 CCGGGTTGGGCTGTGACGCTGCTGCTGGGGTCAGAATGTCATACCCAGGCTATCCCCAA  
 CAGGCTACCCACCTTTCCCTGGATATCCTCCTGCAGGTCAGGAGTCATCTTTCCCCCTT  
 CTGGTCAGTATCCTTATCCTAGTGGCTTTCCTCCAATGGGAGGAGGTGCCTACCCACAAG  
 TGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTACCCTGCGCCTGGAGGTTATCCAGCCC  
 CTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGAGCTCCATCCTATCCCGGAGTTCTCT  
 CAGGCCAAGGATTTGGAGTCCCACCAGGTGGAGCAGGCTTTTCTGGGTATCCACAGCCAC  
 CTTACAGTCTTATGGAGGTGGTCCAGCACAGGTTCCACTACCTGGTGGCTTTCCTGGAG  
 GACAGATGCCTTCTCAGTATCCTGGAGGACAACCTACTTACCCTAGTCAGCCTGCCACAG  
 TGACTCAGGTCACCAAGGAACATCCGACCAGCTGCCAACTTCGATGCTATAAGAGATG  
 CAGAAATCTTCGTAAGGCAATGAAGGGTTTTGGGACAGATGAGCAGGCAATTGTGGATG  
 TGGTGGCCAACCGTTCCAATGATCAGAGGCAAAAAATTAAGCAGCATTTAAGACCTCCT  
 ATGGCAAGGATTTAATCAAAGATCTCAAATCAGAGTAAAGTGGAAATATGGAAGAAGTGA  
 TCCTGGCCCTCTCATGCCTCTACGTATTACGATGCCTGGAGCTTACGGAAAGCAATGC  
 AGGGAGCAGGAACCTCAGGAACGTGATTGATTGAGATTTTGTGCACAAGAACAATCAGG  
 AAATCCGAGAAATGTGCAGATGTTATCAGTCAGAAATTTGGACGAGACCTTGAAAAGGACA  
 TTAGGTGAGATACATCAGGACATTTTGAACGTTTACTTGTGTCCATGTGCCAGGGAAATC  
 GTGATGAGAACCAGAGTATAAACCAACCAATGGCTCAGGAAGATGCTCAGCGTCTCTATC  
 AAGCTGGTGGGGGAGACTAGGGACCGATGAATCTTGCTTTAACATGATCCTTGCCACAA  
 GAAGCTTTCCTCAGCTGAGAGCTACCATGGAGGCTTATTCTAGGATGGCTAATCGAGACT  
 TGTTAAGCAGTGTGAGCCGTGAGTTTTCCGGATATGTAGAAAGTGGTTTGAAGACCATCT  
 TGCAGTGTGCCCTGAACCGCCCTGCCTTCTTGTGCTGAGAGGCTCTACTATGCTATGAAAG  
 GTGCTGGCACAGATGACTCCACCCTGGTCCGGATTGTGGTCACTCGAAGTGAGATTGACC  
 TTGTACAAATAAAAACAGATGTTTCGCTCAGATGTATCAGAAGACTCTGGGCACAATGATTG  
 CAGGTGACACGAGTGGAGATTACCGAAGACTTCTTCTGGCTATTGTGGCCAGTAGGAGG  
 GATTTTTTTTTTTTAAATGAAAAAAATTTCTATTATCATAGCTTATCCTTCAGAGCAATGA  
 CCTGCATGCAGCAATATCAAACATCAGCTAACCGAAAGAGCTTTCTGTCAAGGACCGTAT  
 CAGGGTAATGTGCTTGGTTTGCACATGTTGTTATTGCCTTAATTCTAATTTTATTTTGT  
 CTCTACATACAATCAATGTAAGCCATATCACAATGATACAGTAATATTGCAATGTTTGT  
 AAACCTTACTTACTAGTTTCTTCTAATCAAGATGTCAAATTTGAATAAAAAATCACAG  
 CAATCTCTGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001156

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001156.2](#), [NP\\_001147.1](#)

**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]

**Transcript Variant:** This variant (1) lacks an alternate in-frame exon, compared to variant 2, resulting in a shorter protein (isoform 1) that lacks an internal segment, compared to isoform 2. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.