

Product datasheet for **SC117619**

Annexin VII (ANXA7) (NM_004034) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VII (ANXA7) (NM_004034) Human Untagged Clone
Tag:	Tag Free
Symbol:	Annexin VII
Synonyms:	ANX7; SNX; SYNEXIN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117619 sequence for NM_004034 edited (data generated by NextGen Sequencing)

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ATGTCATACCCAGGCTATCCCCAACAGGCTACCCACCTTTCCCTGGATATCCTCCTGCA
GGTCAGGAGTCATCTTTTCCCCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCTCCA
ATGGGAGGAGGTGCCTACCCACAAGTGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTAC
CCTGCGCCTGGAGGTTATCCAGCCCCTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGA
GGCTCCATCCTATCCCGGAGTTCCAGGCCAAGGATTTGGAGTCCCACCAGGTGGAGCA
GGCTTTTCTGGGTATCCACAGCCACCTTACAGTCTTATGGAGGTGGTCCAGCACAGGTT
CCTACTACCTGGTGGCTTTCTGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACT
ACTTACCCTAGTCAGATCAATACAGATTCTTTTCTTCTATCCTGTTTTCTCCTGTT
TCTTTGGATTATAGCAGTGAACCTGCCACAGTACTCAGGTCCTCAAGGAACTATCCGA
CCAGCTGCCAACTTCGATGCTATAAGAGATGCAGAAATCTTCGTAAGGCAATGAAGGT
TTTGGGACAGATGAGCAGGCAATTGTGGATGTGGTGGCCAACCGTTCCAATGATCAGAGG
CAAAAAATTAAGCAGCATTTAAGACCTCTATGGCAAGGATTTAATCAAAGATCTCAA
TCAGAGTTAAGTGAAATATGGAAGAAGTATCCTGGCCCTCTCATGCCTCCTACGAT
TACGATGCCTGGAGCTTACGAAAAGCAATGCAGGGAGCAGGAACCTCAGGAACGTGATTG
ATTGAGATTTTGTGCACAAGAACAATCAGGAAATCCGAGAAATTGTCAGATGTTATCAG
TCAGAATTTGGACGAGACCTTGAAGGACATTAGGTCAGATACATCAGGACATTTTGA
CGTTTACTTGTGCCATGTGCCAGGAAATCGTGATGAGAACCAGAGTATAAACCACAA
ATGGCTCAGGAAGATGCTCAGCGTCTCTATCAAGCTGGTGGGGGAGACTAGGGACCGAT
GAATCTTGCTTTAACATGATCCTTGCCACAAGAAGCTTCTCAGCTGAGAGCTACCATG
GAGGCTTATTCTAGGATGGCTAATCGAGACTTGTAAAGCAGTGTGAGCCGTGAGTTTTCC
GGATATGTAGAAAGTGGTTTGAAGACCATCTTGCAGTGTGCCCTGAACCGCCCTGCCTTC
TTTGCTGAGAGGCTCTACTATGCTATGAAAGGTGCTGGCACAGATGACTCCACCCTGGTC
CGGATTGTGGTCACTCGAAGTGAGATTGACCTTGTACAAATAAAACAGATGTTTCGCTCAG
ATGTATCAGAAGACTCTGGGCACAATGATTGCAGGTGACACGAGTGGAGATTACCGAAGA
CTTCTTCTGGCTATTGTGGGCCAGTAG
    
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Clone variation with respect to NM_004034.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004034 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGTGTGACGCTGCTGC
TGGGGTCAGATTTTTTTTTTCTTTATTTTTGACCCTGACCCTTTTGCCCTTGGTCTATCTA
CTTTTCTTTTTCTTTCTTTTTTTTTTTTTCTTTTTCTTTGTCTTGTCTTTTCTTTT
CAACTGGAGTGCAATGATGCAAAACGACTCACTGCCGCCTTGACCTCCTGGCCTCAAGC
AATTCTCCCGCCTCAGCTTCTGAGTAGTTTGGACTACGGGTGGGCGCCGCTGCACTGGA
ATGTCATACCCAGGCTATCCCCAACAGGCTACCCACCTTTCCCTGGATATCCTCCTGCA
GGTCAGGAGTCATCTTTTCCCCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCTCCA
ATGGGAGGAGGTGCCTACCCACAAGTGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTAC
CCTGCGCCTGGAGGTTATCCAGCCCCTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGA
GCTCCATCCTATCCCGGAGTTCTCCAGGCCAAGGATTTGGAGTCCCACCAGGTGGAGCA
GGCTTTTCTGGGTATCCACAGCCACCTTACAGTCTTATGNGAGGTGGTCCAGCACAGGT
TCCACTACCTNGTGGCTTCTCCTGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACC
TACTTACCCTAGTCAGATCAATACAGATNCTTTNTCTTCTATCCTGTTTTCTCCTCGG
TTCTTTGGATATAGCAGNGAACCTGCCACAGTACTCANGTCACTCAAGGAACTATNCGA
CCAGCTGCCAACTTCGATGCTATAAGGATGCAGAAATATCTTCAAGCAATGAAGGNNTT
NGGACAGAGAGCANGCATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004034 unedited TGTCATAACTTAATTTAAAAAAGAAAACAACACTGCGAAAAAAGTAGCTATGTATCTTAA GCATATAAACATTTGACCCTTTCTTAAAAGGTGCCACAGGTAATACTAATCTATTTTCTA TGTGGAAAGTGTTATGAATACAGAACCAATTTAGGCAAAATGAGATGCAAATTATTCTA GATGTAAGGTTGAATTTTTTTTTTAAAGTACACAGTTTTAACATACTATCCACTCTATCA AGCAGACTTAGAGGGATTCCGGAAGGCAGAGCTTTCAGTAACCTTCTAAAAAATTATTCA ATATTATTACACAGAATCAGAGATTGCTGTGATTTTTATTCAATTTGACATCTTGATTAG AATGAAACTAGTAAGAATGAAGGTTTACAAACATTGCAATATTACTGTATCATTGTGATA TGGCTTTACATTGATTGTATGTAGAGAACAAAATAAAATTAGAATTAAGGCAATAACAAC ATGTGCAAACCAAGCACATTACCCTGATACGGTCTTGACAGAAAGCTCTTTCGGTTAGC TGATGTTTGATATTGCTGCATGCANGTCATTGCTCTGAAGGATAAGCTATGAATAGAAAA TTTTTTTCATTAATAAAAAAAAAATCCCTCCTACTGGNCCCACATAGCCAGAAGAAGTCTT TCGGTATCTNCACTCGTGCACCTGCAATCATTGTGCCAGAGTCTTCTGATACATCTGA GCGAACATCTGTTNTATTTGTACAAGGGTCATCTCACTTCGAGTGACCACAATCCGGACA NGGTGGAGTCATCTGTGCCAGCACCTTTTCATAGCATAGTAAAGCCTCTCAGCAAAGAAGC AGGGCGGTTTCAGGCACACTGGCAGATGGTCTTACCCCTTTTTACTATCCGGAACAAACG TTACACTGTTTACAGTTTCGATAAGCATCCTAAAAAGCCTCCTGTACCTTCTACTGAGAA GCTTCTGTGGGAAGATATGTTAAGCAAATTATTGGCCTATTCTCCTAACAACTGATTAGA CCTGAGCCTTTCTGAGCATTGGGGGTTACCTTGGTTAAAAACATTCCTCCGGAAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_004034
Insert Size:	2640 bp
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).
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"> 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:	<u>NM_004034.1</u> , <u>NP_004025.1</u>
RefSeq Size:	2176 bp
RefSeq ORF:	1467 bp
Locus ID:	310
UniProt ID:	<u>P20073</u>
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 (2) represents the longest transcript and encodes the longest 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.