

## Product datasheet for **SC117618**

### Annexin VI (ANXA6) (NM\_004033) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VI (ANXA6) (NM_004033) Human Untagged Clone
Tag:	Tag Free
Symbol:	Annexin VI
Synonyms:	annexin A6; annexin VI; annexin VI (p68); ANX6; calcium-binding protein p68; calelectrin; calphobindin II; CBP68
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004033, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAAACCAGCACAGGGTGCCCAAGTACCGGGGCTCCATCCATGACTTCCCAGGCTTTGACCCCAACC
AGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAGGCCATACTGGACATAAT
CACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTACGGCAAGGACCTC
ATTGCTGATTTAAAGTATGAATTGACGGGCAAGTTTGAACGGTTGATTGTGGGCCTGATGAGGCCACCTG
CCTATTGTGATGCCAAAGAAATTAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCCTCATTGA
GATCTTGGCTTCCCGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGG
GACCTGGAGGCTGACATCATCGCGACACCTCTGGCCACTTCCAGAAGATGCTTGTGGTCTGCTCCAGG
GAACCAGGGAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGC
AGGGGAAGTGAATGGGGAACAGATGAAGCCCAGTTCATTTACATCTTGGGAAATCGCAGCAAGCAGCAT
CTTCGGTTGGTGTTCGATGAGTATCTGAAGACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGC
TGCTCGGGGACTTTGAGAAGCTAATGCTGGCCGTAGTGAAGTGTATCCGGAGCACCCCGGAATTTTTGC
TGAAAGGCTCTTCAAGGCTATGAAGGGCCTGGGGACTCGGGACAACACCTGATCCGCATCATGGTCTCC
CGTAGTGAGTTGGACATGCTCGACATTCGGGAGATCTTCCGGACCAAGTATGAGAAGTCCCTCTACAGCA
TGATCAAGAAATGACACCTCTGGCGAGTACAAGAAGACTCTGCTGAAGCTGTCTGGGGGAGATGATGATGC
TGCTGGCCAGTCTTCCCGGAGGCAGCGCAGGTGGCCTATCAGATGTGGGAACTTAGTGCAGTGGCCCGA
GTAGAGCTGAAGGGAAGTGTGCGCCAGCCAATGACTTCAACCTGACGCAGATGCCAAAGCGCTGCGGA
AAGCCATGAAGGGAAGTGTGCGCCAGCCAATGACTTCAACCTGACGCAGATGCCAAAGCGCTGCGGA
AGCGGCAGCAGATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAAAGTACTGACCTGAAGTCTGAG
ATCTCTGGAGACCTGGCAAGGCTGATTCTGGGGCTCATGATGCCACCGGCCATTACGATGCCAAGCAGT
TGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAAATCCTGGCCACTCGGACCAA
TGCTGAAATCCGGGCCATCAATGAGGCCTATAAGGAGGACTATCACAAAGTCCCTGGAGGATGCTCTGAGC
TCAGACACATCTGGCCACTTCCAGGAGGATCCTCATTTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAG
AAAACCTGGACCAGGCACGGGAAGATGCCAGGAAATAGCAGACACACCTAGTGGAGACAAAACCTCCTT
GGAGACACGTTTCATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGGAGAGTCTTCCAGGAGTTC
ATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAGGAGATGTCTGGGGATGTCAGGGATGCAT
TTGTGGCCATTGTTCAAAGTGTCAAGAACAAGCCTCTCTCTTTGCCGACAACTTTACAAATCCATGAA
GGGTGCTGGCACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAAC
ATCCGGAGGGAAATTCATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAG
ACTTCTGAAGGCCTTGCTGGCTCTCTGTGGTGGTGGAGGACTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004033 unedited

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NGGTCGAATTTGTATACGACTCCTATAGCGCGCCGGCGAATCGGCACGAGGCTCCGATCC
AGCGAGCGCTGCGTCTCGAGTCCCTGCGCCCGTGCCTCCGTCTGCGACCCGAGGCTCC
GCTGCGCGTGGATTCTGCTGCGAACCGGAGACCATGGCCAAACCAGCACAGGGTGCCAAG
TACCGGGGCTCCATCCATGACTTCCCAGGCTTTGACCCCAACCAGGATGCCGAGGCTCTG
TACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAGGCCATACTGGACATAATCACCTCA
CGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTACGGCAAGGAC
CTCATTGCTGATTTAAAGTATGAATTGACGGGCAAGTTTGAACGGTTGATTGTGGGCCTG
ATGAGGCCACCTGCCTATTGTGATGCCAAAGAAATTAAGATGCCATCTCGGGCATTGGC
ACTGATGAGAAGTGCCTCATTGAGATCTTGGCTTCCCGGACCAATGAGCAGATGCACCAG
CTGGTGGCAGCATACAAAGATGCCTACGAGCGGGACCTGGAGGCTGACATCATCGCGCAC
ACCTCTGGCCACTTCCAGAAGATGCTTGTGGTCTGCTCCAGGGAACAGGGAGGAGGAT
GACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGNGCAGGGAA
CTGAAATGGGGAACAGATGAAGCCCAGTTCATTTACANTCTTGGGAAATCGCAGCAAGCA
GCATCTTCGGGTTTGGTGTTCGAATGAGTATCTGAAGACCACAGGGAAGCCGATTGAAGC
CAGCATCCGAGGGGAGCTGTCTGNNGACTTTGAGAACTAATGCTGGNCGNNATNGAAGT
NGTATCCGGAGCACC
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004033 unedited  GGGGGGGGGGGGCCCNNTTTTACTATAAAAAAAGACCTTCAGGGTTCAGATCGTTTT  GGGTACGACTTACCCACACCAGGCANAGCTGTAGCATTGGGTAGGAAGCTGGGTAAGCC  TGAGGGTCAGAGGGGAGTGGAGGTGGACAGGATCTATGGCTACGGTTTTTCAGCCGCTCA  GCCGTGCTGGGCCCTCGATGGCCCGTGGGAGTGGGAGCGTTTTCTAAGCTCCACTGAAGA  TAAGAGCCCAACCCAACCCCTCCCCCACCCCTGCCCTTCCTTAGTCTCTGGAGCTGGA  ACAAACAGGCTTGGCCATGGCGGCTGGTGTGATAACCATTTCTTGGCAGAAGTGCCCGC  CAAAGCTGTGGCCCTAGTCCTCACACCACAGAGAGCCAGCAAGGCCTTCAGGAAGTCTC  CGGAGGTGTACCCCTCAATGGCTTGGTGGAGAGACTTGTATATTTTCTCAATGAATTC  CTCCGGATGTTGAGCAAGTCAATCTCACTGCGGGATACCATGATCCTGGTCAGAGTCTTC  TCATCTGCGCCAGCACCCCTTCATGGATTGTAAAGTTTGGCCGCTAAGAAGATAGGCTTG  TTCTCGACCCTTTCAACAATGGCCACAAATGCATACCCTGACATTTCCAGACATCCTCT  TCCTTGGAGGGGTGCCTCCACCTGATAATTGGCCAATCTGTTTGAACCTCCTGTAACG  ACTCTTCCGAGGTGCCGATATGCTTCCGGTTCCTCCCGATCGTCTTGAACGTCCTCTC  CAATGACACTCTCTCCCTCCACCTGGTTGTCTCTGCTCTTCCATCTTCTCCAATAG  TCTCCCGTGGCTTTTTTCCCGTTCCTTGCCTCAATGTTTTTCTCCCTCCCCCATTAA  GACCCCGTGGCGCTCCGATAAATAGGTTCCCATTTTCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004033
<b>Insert Size:</b>	2710 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_004033.2</a> , <a href="#">NP_004024.2</a>
<b>RefSeq Size:</b>	2897 bp
<b>RefSeq ORF:</b>	2004 bp
<b>Locus ID:</b>	309
<b>Cytogenetics:</b>	5q33.1
<b>Domains:</b>	annexin

**Gene Summary:**

Annexin VI belongs to a family of calcium-dependent membrane and phospholipid binding proteins. Several members of the annexin family have been implicated in membrane-related events along exocytotic and endocytotic pathways. The annexin VI gene is approximately 60 kbp long and contains 26 exons. It encodes a protein of about 68 kDa that consists of eight 68-amino acid repeats separated by linking sequences of variable lengths. It is highly similar to human annexins I and II sequences, each of which contain four such repeats. Annexin VI has been implicated in mediating the endosome aggregation and vesicle fusion in secreting epithelia during exocytosis. Alternatively spliced transcript variants have been described. [provided by RefSeq, Aug 2010]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.