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Product datasheet for SC119425

Annexin VI (ANXA6) (NM_001155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VI (ANXA6) (NM_001155) Human Untagged Clone
Tag:	Tag Free
Symbol:	Annexin VI
Synonyms:	ANX6; CBP68; CPB-II; p68; p70
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC119425 sequence for NM_001155 edited (data generated by NextGen Sequencing)

ATGGCCAAACCAGCACAGGGTGCCAAGTACCGGGGCTCCATCCATGACTTCCCAGGCTTT
GACCCCAACCAGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAG
GAGGCCATACTGGACATAATCACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAG
AGCTACAAGTCCCTCTACGGCAAGGACCTCATTGCTGATTTAAAGTATGAATTGACGGGC
AAGTTTGAACGGTTGATTGTGGGCCTGATGAGGCCACCTGCCTATTGTGATGCCAAAGAA
ATTAAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCCTCATTGAGATCTTGGCT
TCCCGGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGG
GACCTGGAGGCTGACATCATCGGCGACACCTCTGGCCACTTCCAGAAGATGCTTGTGGTC
CTGCTCCAGGGAACCAGGGAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGAT
GTCCAGGACCTATACGAGGCAGGGGAACTGAAATGGGGAACAGATGAAGCCCAGTTCATT
TACATCTTGGGAAATCGCAGCAAGCAGCATCTTCGGTTGGTGTTCGATGAGTATCTGAAG
ACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGCTGTCTGGGGACTTTGAGAAG
CTAATGCTGGCCGTAGTGAAGTGTATCCGGAGCACCCCGGAATATTTTGCTGAAAGGCTC
TTCAAGGCTATGAAGGGCCTGGGGACTCGGGACAACACCCTGATCCGCATCATGGTCTCC
CGTAGTGAGTTGGACATGCTCGACATTCGGGAGATCTTCCGGACCAAGTATGAGAAGTCC
CTCTACAGCATGATCAAGAATGACACCTCTGGCGAGTACAAGAAGACTCTGCTGAAGCTG
TCTGGGGGAGATGATGATGCTGCTGGCCAGTTCTTCCCGGAGGCAGCGCAGGTGGCCTAT
CAGATGTGGGAACTTAGTGCAGTGGCCCGAGTAGAGCTGAAGGGAACTGTGCGCCCAGCC
AATGACTTCAACCCTGACGCAGATGCCAAAGCGCTGCGGAAAGCCATGAAGGGACTCGGG
ACTGACGAAGACACAATCATCGATATCATCACGCACCGCAGCAATGTCCAGCGGCAGCAG
ATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAATGACTGACCTGAAGTCTGAG
ATCTCTGGAGACCTGGCAAGGCTGATTCTGGGGCTCATGATGCCACCGGCCCATTACGAT
GCCAAGCAGTTGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAA
ATCCTGGCCACTCGGACCAATGCTGAAATCCGGGCCATCAATGAGGCCTATAAGGAGGAC
TATCACAAGTCCCTGGAGGATGCTCTGAGCTCAGACACATCTGGCCACTTCAGGAGGATC
CTCATTTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAGAAAACCTGGACCAGGCACGG
GAAGATGCCCAGGTGGCTGCTGAGATCTTGGAAATAGCAGACACACCCAGTGGAGACAAA
ACTTCCTTGGAGACACGTTTCATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGG
AGAGTCTTCCAGGAGTTCATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAG
GAGATGTCTGGGGATGTCAGGGATGCATTTGTGGCCATTGTTCAAAGTGTCAAGAACAAG
CCTCTCTTCTTTGCCGACAAACTTTACAAATCCATGAAGGGTGCTGGCACAGATGAGAAG
ACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAACATCCGGAGGGAA
TTCATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAGAC
TTCCTGAAGGCCTTGCTGGCTCTCTGTGGTGGTGAGGACTAG

Clone variation with respect to NM_001155.4
1608 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001155 unedited
AGAATTGTATACGACTACTATAGGCGGCCCGCGAATTCGCACGAGGCCTCGTGCCGAATT
CGGCACGAGGGCGAACCGGAGACCATGGCCAAACCAGCACAGGGTGCCAAGTACCGGGGC
TCCATCCATGACTTCCCAGGCTTTGACCCCAACCAGGATGCCGAGGCTCTGTACACTGCC
ATGAAGGGCTTTGGCAGTGACAAGGAGGCCATACTGGACATAATCACCTCACGGAGCAAC
AGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTACGGCAAGGACCTCATTGCT
GATTTAAAGTATGAATTGACGGGCAAGTTTGAACGCTTGATTGTGGGCCTGATGAGGCCA
CCTGCCTATTGTGATGCCAAAGAAATTAAAGATGCCATCTCGGGCATTGGCACTGATGAG
AAGTGCCTCATTGAGATCTTGGCTTCCCGGACCAATGAGCAGATGCACCAGCTGGTGGCA
GCATACAAAGATGCCTACGAGCGGGACCTGCAGGCTGACATCATCGGCGACACCTCTGGC
CACTTCCAGAAGATGCTTGTGGTCCTGCTCCAGGGAACCAGGGAGGAGGATGACGTATTG
AGCGAGGACCTGGTACAACAGGATGCCCAGGACCTATACGAGGCAAGGGAACTGAAATGG
GGAACAGATGAAGCCCAGTTCATTTACATCTTGGGAAATCGCAGCAAGCACCATCTTCGG
TTGGTGTTCGATGAGTATCTGAAGACACAGGGAAGCCGCATGAAGCCACCTCCCGAGGGA
GCTGTCTGGGCACTTTGACACCTAATGCTTGCCGTACGAAATGTATCCCCAGCACCCCGC
ATATTCTGCTGAAAGGCTCTTCCAGCCTATGAAGGGCCTGGGGACTCGGGACACACCCTG
AACCCATCATGGCCCCCGTAAGGAACTGCCATGCTCCACATCCGAAAACT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001155 unedited
TGACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTACAGAC
AGAGGTTCAGGATGTTTTTGGATCTGACATAGCCCAAACCAGGGCAGAGGCTGTAGCAAG
GGGAGGAAGCTGGGAAAGCCTGAGGGTCAAAGGGGAGTGGAGGTGGACAGGATCTATGGC
TACGGTTTTTCAGCCGCTCAGCCGTGCTGGGCCCTCGATGGCCCGTGGGAGTGGGAGCGT
TTCCTAAGCTCCACTGAAGATAAGAGCCCAACCCAACCCCTCCCCCCACCCCTGCCCCTT
CCTTAGTCTCTGGAGCTGGAACAATCAGGCTTGGCCATGGCGGCTGGTGCTGATAACCAT
TTCTTGGCAGAAGTGCCCGCCAAAGCTGTGGCCCTAGTCCTCACCACCACAGAGAGCCAG
CAAGGCCTTCAGGAAGTCTCCGGAGGTGTCACCCTCAATGGCTTGGTGGAGAGACTTGTC
ATATTTCTCAATGAATTCCCTCCGGATGTTGAGCAGGTCAATCTCACTGCGGGATACCAT
GATCCTGGTCAGAGTCTTCTCATCTGTGCCAGCACCCTTCATGGATTTGTAAAGTTTGTC
GGCAAAGAAGAGAGGCTTGTTCTTGACACTTTGAACAATGGCCACAAATGCATCCCTGAC
ATCCCCAGACATCTCCTTCTTGATGGTGTGCTCCCCGTCATAATTGGTCATCTTGATGAA
CTCCTGGAAGACTCTTCCGAGTGCCGATAGCTCCCGGTACACAGATCGTCATGAAACGTG
TCTCCCAGGAAGTTTGCCTCACTGGGTGTGTCTGCTATTTCCAGGACTTAGCAGCCACTG
GGCATNTTCCCGGCCTGGTCCAGTTTTCTCCTCCCTCTCACAAGCCCCGGGCCAAAGAAT
GAAGATCCTTCTAAGGGGCCATATGTGN

Restriction Sites: NotI-NotI

ACCN: NM_001155

Insert Size: 2720 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_001155.3, NP_001146.2

RefSeq Size: 2915 bp

RefSeq ORF: 2022 bp

Locus ID: 309

UniProt ID: P08133

Cytogenetics: 5q33.1

Domains: 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 (1) represents the longer transcript and encodes the longer isoform (1).