

Product datasheet for **SC300465**

Annexin A2 (ANXA2) (NM_001002858) Human Untagged Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | Annexin A2 (ANXA2) (NM_001002858) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Annexin A2 |
| Synonyms: | ANX2; ANX2L4; CAL1H; HEL-S-270; LIP2; LPC2; LPC2D; P36; PAP-IV |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene ORF sequence for NM_001002858 edited
ATGGGCCCGCCAGCTAGCGGGGTGCGGAGACGCTGGGAAGAAGGCTTCCTTCAAAATGTCT
ACTGTTACGAAATCCTGTGCAAGCTCAGCTTGGAGGGTGATCACTCTACACCCCAAGT
GCATATGGGTCTGTCAAAGCCTATACTAACTTTGATGCTGAGCGGGATGCTTTGAACATT
GAAACAGCCATCAAGACCAAAGGTGTGGATGAGGTCACCATTGTCAACATTTTGACCAAC
CGCAGCAATGCACAGAGACAGGATATTGCCTTCGCCTACCAGAGAAGGACCAAAAAGGAA
CTTGATCAGCACTGAAGTCAGCCTTATCTGGCCACCTGGAGACGGTGATTTTGGGCCTA
TTGAAGACACCTGCTCAGTATGACGCTTCTGAGCTAAAAGCTTCCATGAAGGGGCTGGGA
ACCGACGAGGACTCTCTCATTGAGATCATCTGCTCCAGAACCAACCAGGAGCTGCAGGAA
ATTAACAGAGTCTACAAGGAAATGTACAAGACTGATCTGGAGAAGGACATTATTTTCGGAC
ACATCTGGTGACTTCCGCAAGCTGATGGTTGCCCTGGCAAAGGGTAGAAGAGCAGAGGAT
GGCTCTGTCAATTGATTATGAACTGATTGACCAAGATGCTCGGGATCTCTATGACGCTGGA
GTGAAGAGGAAAGGAACTGATGTTCCCAAGTGGATCAGCATCATGACCGAGCGGAGCGTG
CCCCACCTCCAGAAAGTATTTGATAGGTACAAGAGTTACAGCCCTTATGACATGTTGGAA
AGCATCAGGAAAGAGGTTAAAGGAGACCTGGAAAATGCTTTTCTGAACTGGTTCAGTGC
ATTCAGAACAAAGCCCTGATTTTGTGCTGATCGGCTGTATGACTCCATGAAGGGCAAGGGG
ACGCGAGATAAGGTCCTGATCAGAATCATGGTCTCCCGCAGTGAAGTGGACATGTTGAAA
ATTAGGCTGAATTCAAGAGAAAAGTACGGCAAGTCCCTGTACTATTATATCCAGCAAGAC
ACTAAGGGCGACTACCAGAAAGCGCTGCTGTACCTGTGTGGTGGAGATGACTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001002858 unedited
 ATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAAGCGCGCCCTGCC
 GCCCGCATGGGCCGCCAGCTAGCGGGTGCAGAGACGCTGGGAAGAAGGCTTCTTCAA
 AATGTCTACTGTTACGAAATCTGTGCAAGCTCAGCTTGAGGGTGATCACTCTACACC
 CCCAAGTGCATATGGGTCTGTCAAAGCCTATACTAACTTTGATGCTGAGCGGGATGCTTT
 GAACATTGAAACAGCCATCAAGACCAAAGGTGTGGATGAGGTACCATTGTCAACATTTT
 GACCAACCCGAGCAATGCACAGAGACAGGATATTGCCTTCGCCTACCAGAGAAGGACCAA
 AAAGGAACCTTGATCAGCACTGAAGTCAGCCTTATCTGGCCACCTGGAGACGGTGATTTT
 GGGCCTATTGAAGACACCTGCTCAGTATGACGCTTCTGAGCTAAAAGCTTCCATGAAGGG
 GCTGGGAACCGACGAGGACTCTCTCATTGAGATCATCTGCTCCAGAACCAACCAGGAGCT
 GCAGGAAATTAACAGAGTCTACAAGGAAATGTACAAGACTGATCTGGAGAAGGACATTAT
 TTCGGACACATCTGGTGACTTCCGCAAGCTGATGGTTGCCCTGGCAAAGGGTAGAAGAGC
 AGAGGATGGCTCTGTCATTGATTATGAACTGATTGACCAAGATGCTCGGGATCTCTATGA
 CGCNTGAGTGAAGAGGAANGAAGTATGTTCCAGTGGATCAGCATCATGACCGAGCGGA
 GCGTGCCCACTTCAGAAAGTANTTGATAGGGTACAAGAGTACAGCCCTTATGACATGN
 TGNAAAGCATCANGAAAGAGGNTAAGGAGGACCTGNAATGCTTTNNCTGAACTGNTTCA
 GTGCATTGAGAACAGGCCCTGTNATTTGCTGATCCGCTGNATGACTCCATGAGGGCAGGG
 GACCGGATAAGTCTGATAGATCATGTCTCCGCATGAGTGGAATGTG

3' Read Nucleotide Sequence:

>Forward primer walk for NM_001002858 unedited
 NNGGGCATTGACGACTGCGAGNAAATAACANGATCTACAAGNAATGTACAANAAGTGA
 TCTGGAGAAGACATTATTTCCGACACATCTGGTGACTTCCGCAAGCTGATGGTTGCCCTG
 GCAAAGGGTAGAAGAGCAGAGGATGGCTCTGTCATTGATTATGAACTGATTGACCAAGAT
 GCTCGGGATCTCTATGACGCTGGAGTGAAGAGGAAAGGAACTGATGTTCCAAGTGGATC
 AGCATCATGACCGAGCGGAGCGTGCCCACTCCAGAAAGTATTTGATAGGTACAAGAGT
 TACAGCCCTTATGACATGTTGAAAGCATCAGGAAAGAGGTTAAAGGAGACCTGGAAAAT
 GCTTTCCTGAACCTGGTTCAGTGCAATCAGAACCAAGCCCTGTATTTGCTGATCGGCTG
 TATGACTCCATGAAGGGCAAGGGGACGCGAGATAAGGTCCTGATCAGAATCATGGTCTCC
 CGCAGTGAAGTGGACATGTTGAAAATTAGGTCTGAATCAAGAGAAAGTACGGCAAGTCC
 CTGTAATATTATCCAGCAAGACACTAAGGGCGACTACCAGAAAAGCGCTGCTGTACCTG
 TGTGGTGGAGATGACTGAAGCCCGACACGGCCTGAGCGTCCAGAAATGGTGCTCACCATG
 CTCCAGCTAACAGGTCTAGAAAACAGCTTGCGAATAACAGTCCCGTGGCCATCCCTG
 TGAGGGTGACGTTAGCATTACCCCAACCTCATTTTAGTTGCCTAAGCATTGCCTGGCCT
 TCCTGTCTAGTCTCTCTGTAAGCCAAAGAAATGAACATTCCAAGGAGTTGGAAGTGAAG
 TCTATGATGTAAACACTTTGCCTCTGTACTGTGTCATANACAGAT

Restriction Sites:

NotI-NotI

ACCN:

NM_001002858

Insert Size:

1600 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](#)

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_001002858.1](#), [NP_001002858.1](#)

RefSeq Size: 1635 bp

RefSeq ORF: 1074 bp

Locus ID: 302

UniProt ID: [P07355](#)

Cytogenetics: 15q22.2

Protein Families: Druggable Genome, Secreted Protein, Stem cell - Pluripotency

Gene Summary: This gene encodes a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. This gene has three pseudogenes located on chromosomes 4, 9 and 10, respectively. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. Annexin A2 expression has been found to correlate with resistance to treatment against various cancer forms. [provided by RefSeq, Dec 2019]

Transcript Variant: This variant (1) encodes the longer isoform (1).