

Product datasheet for **SC300464**

Annexin A2 (ANXA2) (NM_001002857) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin A2 (ANXA2) (NM_001002857) 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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001002857, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGTCTACTGTTACGAAATCCTGTGCAAGCTCAGCTTGGAGGGTGATCACTCTACACCC CCAAGTGCATATGGGTCTGTCAAAGCCTATACTAACTTTGATGCTGAGCGGGATGCTTTG AACATTGAAACAGCCATCAAGACCAAAGGTGTGGATGAGGTCACCATTGTCAACATTTTG ACCAACCGCAGCAATGCACAGAGACAGGATATTGCCTTCGCCTACCAGAGAAGGACCAAA AAGGAACCTGCATCAGCACTGAAGTCAGCCTTATCTGGCCACCTGGAGACGGTGATTTTG GGCCTATTGAAGACACCTGCTCAGTATGACGCTTCTGAGCTAAAAGCTTCCATGAAGGGG CTGGGAACCGACGAGGACTCTCTCATTGAGATCATCTGCTCCAGAACCAACCAGGAGCTG CAGGAAATTAACAGAGTCTACAAGGAAATGTACAAGACTGATCTGGAGAAGGACATTATT TCGGACACATCTGGTGACTTCCGCAAGCTGATGGTTGCCCTGGCAAAGGGTAGAAGAGCA GAGGATGGCTCTGTCAATTGATTATGAACTGATTGACCAAGATGCTCGGGATCTCTATGAC GCTGGAGTGAAGAGGAAAGGAACTGATGTTCCCAAGTGGATCAGCATCATGACCGAGCGG AGCGTGCCCCACCTCCAGAAAGTATTTGATAGGTACAAGAGTTACAGCCCTTATGACATG TTGGAAAGCATCAGGAAAGAGGTTAAAGGAGACCTGGAAATGCTTTCCTGAACCTGGTT CAGTGCAATTCAGAAACAGCCCTGTATTTTGCTGATCGGCTGTATGACTCCATGAAGGGC AAGGGGACGCGAGATAAGGTCCTGATCAGAATCATGGTCTCCGCAGTGAAGTGGACATG TTGAAAATTAGGTCTGAATTCAGAGAAAGTACGGCAAGTCCCTGTACTATTATATCCAG CAAGACACTAAGGGCGACTACCAGAAAGCGCTGCTGTACCTGTGTGGTGGAGATGACTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001002857


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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: 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_001002857.1](#), [NP_001002857.1](#)

RefSeq Size: 1644 bp

RefSeq ORF: 1020 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 (2) has an alternate 5' UTR, as compared to variant 1. It uses a downstream AUG start codon and encodes isoform 2 which has a shorter N-terminus, as compared to isoform 1. Variants 2, 3 and 4 encode the same isoform (2).