

## Product datasheet for RC201569

### Annexin A1 (ANXA1) (NM\_000700) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin A1 (ANXA1) (NM_000700) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Annexin A1
Synonyms:	ANX1; LPC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201569 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATATGTTCAA  
CTGTGAAGTCATCAAAGGTGGTCCCGGATCAGCGGTGAGCCCTATCCTACCTCAATCCATCCTCGGA  
TGTCGCTGCCTTGATAAGGCCATAATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACT  
AAGCGAAACAATGCACAGCGTCAACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCTGGATG  
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ATTTGATGCTGATGAACTTCGTGCTGCCATGAAGGCCTTGGAAGTATGATGAAGATCTAATTGAGATT  
TTGGCATCAAGAACTAACAAAGAAATCAGAGACATTAACAGGGTCTACAGAGAGGAACTGAAGAGAGATC  
TGGCCAAAGACATAACCTCAGACACATCTGGAGATTTTCGGAACGCTTTGCTTTCTCTTGCTAAGGGTGA  
CCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATTGAGATGCCAGGGCCTTGATGAAGCAGGA  
GAAAGGAGAAAGGGGACAGACGTAACCTGTTCATACCATCCTTACCACCAGAAGCTATCCACAACCTC  
GCAGAGTGTTCAGAAAACACCAAGTACAGTAAGCATGACATGAACAAAGTTCTGGACCTGGAGTTGAA  
AGGTGACATTGAGAAATGCCTCACAGCTATCGTGAAGTGCGCCACAAGCAAACAGCTTTCTTTGCAGAG  
AAGCTTCATCAAGCCATGAAAGGTGTTGGAAGTGCCTAAGGCATTGATCAGGATTATGGTTTCCCGTT  
CTGAAATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAGCCAT  
CCTGGATGAAACCAAAGGAGATTATGAGAAAATCCTGGTGGCTCTTTGTGGAGGAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201569 protein sequence  
 Red=Cloning site Green=Tags(s)

MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVDEATIIDILT  
 KRNNAAQRQIKAAAYLQETGKPLDETLKKALTGHLEEVVLLALLKTPAQFDADELRAAMKGLGTDEDTLIEI  
 LASRTNKEIRDINRVYREELKRDLAKDITSDTSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAG  
 ERRKGTDVNVFNTILTTRSYPQLRRVFQKYTKYSKHDMNKVLDLELKGDIKCLTAIVKCATSKPAFFAE  
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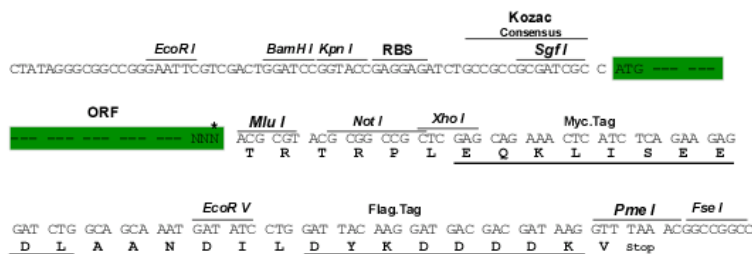
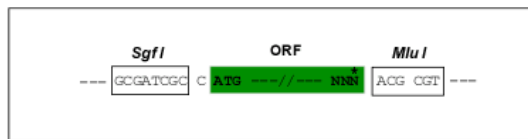
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6286\\_c11.zip](https://cdn.origene.com/chromatograms/mk6286_c11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_000700

**ORF Size:** 1038 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_000700.3](#)

**RefSeq Size:** 1399 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 301

**UniProt ID:** [P04083](#)

**Cytogenetics:** 9q21.13

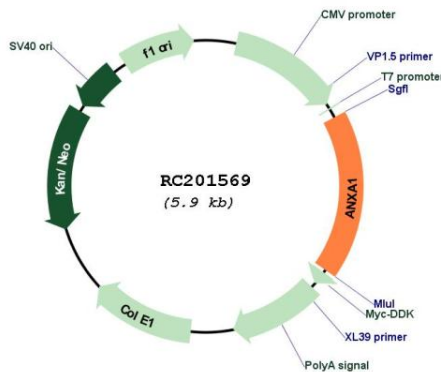
**Domains:** annexin

**Protein Families:** Druggable Genome

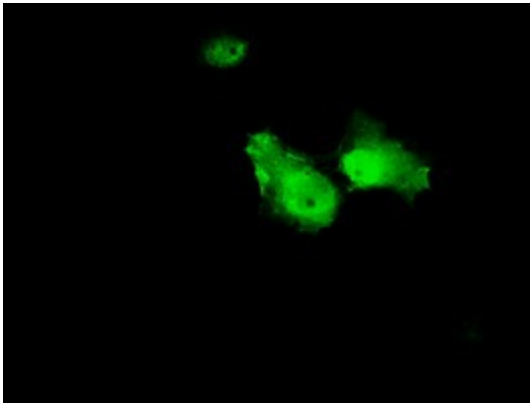
**MW:** 38.7 kDa

**Gene Summary:** This gene encodes a membrane-localized protein that binds phospholipids. This protein inhibits phospholipase A2 and has anti-inflammatory activity. Loss of function or expression of this gene has been detected in multiple tumors. [provided by RefSeq, Dec 2014]

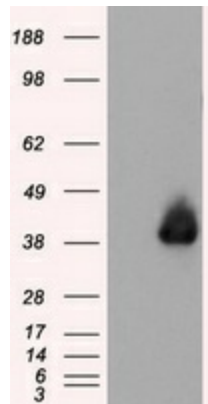
**Product images:**



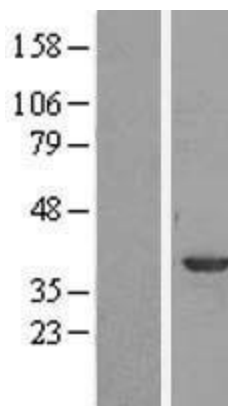
Circular map for RC201569



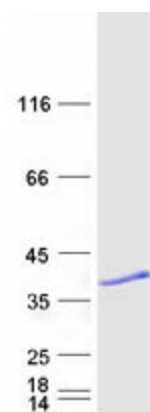
Anti-ANXA1 mouse monoclonal antibody ([TA500967]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ANXA1 (RC201569).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANXA1 (Cat# RC201569, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANXA1 (Cat# [TA500967]). Positive lysates [LY424560] (100ug) and [LC424560] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424560]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201569 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANXA1 protein (Cat# [TP301569]). The protein was produced from HEK293T cells transfected with ANXA1 cDNA clone (Cat# RC201569) using MegaTran 2.0 (Cat# [TT210002]).