

## Product datasheet for RC205619

### Annexin V (ANXA5) (NM\_001154) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin V (ANXA5) (NM_001154) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Annexin V
Synonyms:	ANX5; ENX2; HEL-S-7; PP4; RPRGL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205619 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACAGGTTCTCAGAGGCACTGTGACTGACTTCCCTGGATTTGATGAGCGGGCTGATGCAGAACTC  
TTCGGAAGGCTATGAAAGGCTTGGGCACAGATGAGGAGAGCATCCTGACTCTGTTGACATCCCGAAGTAA  
TGCTCAGCGCCAGGAAATTTCTGCAGCTTTAAGACTCTGTTGGCAGGGATCTTCTGGATGACCTGAAA  
TCAGAATAACTGAAAAATTTGAAAAATTAATTGTGGCTCTGATGAAACCCTCTCGGCTTTATGATGCTT  
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GACACCTGAAGAACTGAGAGCCATCAAACAAGTTTATGAAGAAGAATATGGCTCAAGCCTGGAAGATGAC  
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ATGCTGGAATTGATGAAGCTCAAGTTGAACAAGATGCTCAGGCTTTATTTCAAGCTGGAGAACTTAAATG  
GGGACAGATGAAGAAAAGTTTATCACCATCTTTGGAACCGAAGTGTGTCTCATTTGAGAAAAGGTGTTT  
GACAAGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGGAGACTTCTGGCAATTTAG  
AGCAACTACTCCTTGCTGTTGTGAAATCTATTCGAAGTATACCTGCCTACCTTGCAGAGACCCTCTATTA  
TGCTATGAAGGGAGCTGGGACAGATGATCATACCCTCATCAGAGTCATGGTTTCCAGGAGTGAGACTGAT  
CTGTTTAAACATCAGGAAGGAGTTTAGGAAGAATTTGCCACCTCTCTTTATCCATGATTAAGGGAGATA  
CATCTGGGGACTATAAGAAAGCTCTTCTGCTGCTCTGTGGAGAAGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC205619 protein sequence  
Red=Cloning site Green=Tags(s)

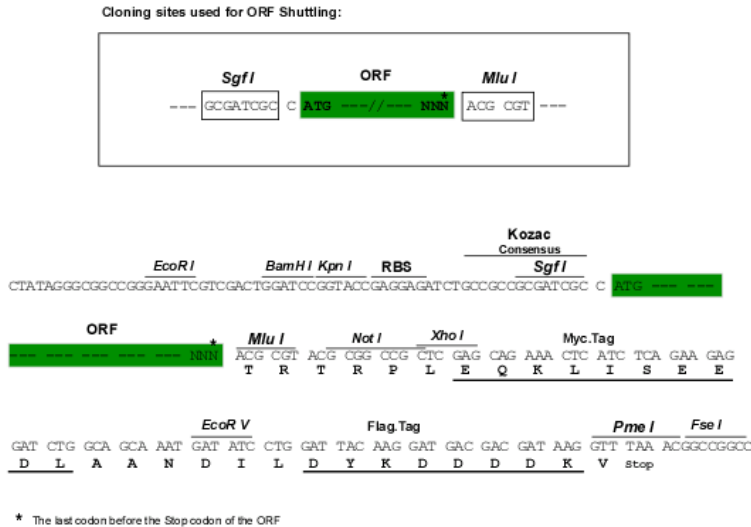
MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESIL TLLTSRSNAQRQEISAFAKTLFGRDLLDDLK  
 SELTGKFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYEGSSLEDD  
 VVGDTSGYYQRLVLLQANRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVF  
 DKYMTISGFQIEETIDRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSETD  
 LFNIRKEFRKNFATSLYSMIKGDTSGDYKALLLLCGEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6171\\_c06.zip](https://cdn.origene.com/chromatograms/mk6171_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001154

**ORF Size:** 960 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\\_001154.4](#)

**RefSeq Size:** 1624 bp

**RefSeq ORF:** 963 bp

**Locus ID:** 308

**UniProt ID:** [P08758](#)

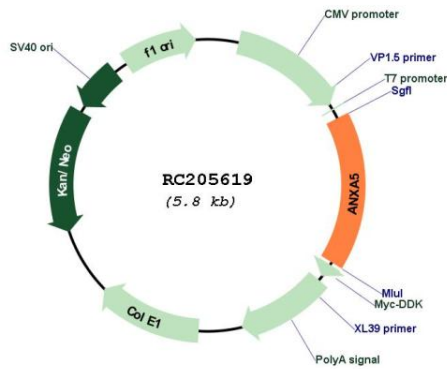
**Cytogenetics:** 4q27

**Domains:** annexin

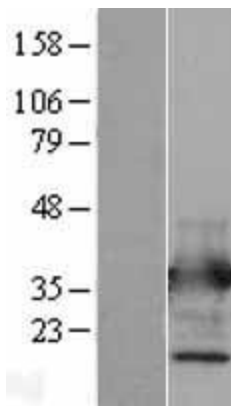
**MW:** 35.9 kDa

**Gene Summary:** The Annexin 5 gene spans 29 kb containing 13 exons, and encodes a single transcript of approximately 1.6 kb and a protein product with a molecular weight of about 35 kDa. The protein encoded by this gene belongs to the annexin family of calcium-dependent phospholipid binding proteins some of which have been implicated in membrane-related events along exocytotic and endocytotic pathways. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. Annexin 5 has also been described as placental anticoagulant protein I, vascular anticoagulant-alpha, endonexin II, lipocortin V, placental protein 4 and anchorin CII. Polymorphisms in this gene have been implicated in various obstetric complications. [provided by RefSeq, Dec 2019]

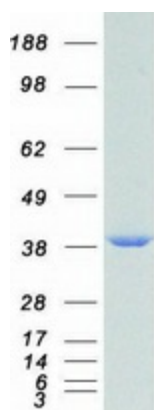
Product images:



Circular map for RC205619



Western blot validation of overexpression lysate (Cat# [LY400462]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205619 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANXA5 protein (Cat# [TP305619]). The protein was produced from HEK293T cells transfected with ANXA5 cDNA clone (Cat# RC205619) using MegaTran 2.0 (Cat# [TT210002]).