

## Product datasheet for **RG205619**

### 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:	TurboGFP
Symbol:	Annexin V
Synonyms:	ANX5; ENX2; HEL-S-7; PP4; RPRGL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205619 representing NM_001154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACAGGTTCTCAGAGGCACTGTGACTGACTTCCCTGGATTTGATGAGCGGGCTGATGCAGAACTC  
TTCGGAAGGCTATGAAAGGCTTGGGCACAGATGAGGAGAGCATCCTGACTCTGTTGACATCCCGAAGTAA  
TGCTCAGCGCCAGGAAATTTCTGCAGCTTTAAGACTCTGTTGGCAGGGATCTTCTGGATGACCTGAAA  
TCAGAATAACTGAAAAATTTGAAAAATTAATTGTGGCTCTGATGAAACCCTCTCGGCTTTATGATGCTT  
ATGAACTGAAACATGCCTTGAAGGGAGCTGGAACAAATGAAAAAGTACTGACAGAAATTATTGCTTCAAG  
GACACCTGAAGAACTGAGAGCCATCAAACAAGTTTATGAAGAAGAATATGGCTCAAGCCTGGAAGATGAC  
GTGGTGGGGGACACTTACAGGACTACCAGCGGATGTTGGTGGTTCTCCTTACAGGCTAACAGAGACCCTG  
ATGCTGGAATTGATGAAGCTCAAGTTGAACAAGATGCTCAGGCTTTATTTACAGGCTGGAGAACTTAAATG  
GGGACAGATGAAGAAAAGTTTATCACCATCTTTGGAACCGAAGTGTGTCTCATTTGAGAAAAGGTGTTT  
GACAAGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGGAGACTTCTGGCAATTTAG  
AGCAACTACTCCTTGCTGTTGTGAAATCTATTCGAAGTATACCTGCCTACCTTGCAGAGACCCTCTATTA  
TGCTATGAAGGGAGCTGGGACAGATGATCATACCCTCATCAGAGTCATGGTTTCCAGGAGTGAGACTGAT  
CTGTTTAAACATCAGGAAGGAGTTTAGGAAGAATTTGCCACCTCTCTTTATTCCATGATTAAGGGAGATA  
CATCTGGGACTATAAGAAAGCTCTTCTGCTGCTCTGTGGAGAAGATGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205619 representing NM\_001154  
Red=Cloning site Green=Tags(s)

MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESIL TLLTSRSNAQRQEISA AFKTLFGRDLLDDLK  
 SELTGKFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYEGSSLEDD  
 VVGDTSGY YQ RMLVLLQANRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVF  
 DKYMTISGFQIEETIDRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSETD  
 LFNIRKEFRKNFATSLYSMIKGDTSGDYKALLLLCGEDD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001154

**ORF Size:** 960 bp

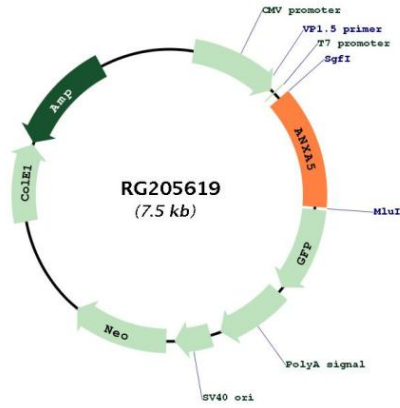
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001154.2</a> , <a href="#">NP_001145.1</a>
<b>RefSeq Size:</b>	1630 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	308
<b>UniProt ID:</b>	<a href="#">P08758</a>
<b>Cytogenetics:</b>	4q27
<b>Domains:</b>	annexin
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG205619