

## Product datasheet for **RG203229**

### Annexin IV (ANXA4) (NM\_001153) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin IV (ANXA4) (NM_001153) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Annexin IV
Synonyms:	ANX4; HEL-S-274; P32.5; PAP-II; PIG28; PP4-X; ZAP36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203229 representing NM_001153 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCATGGCAACCAAAGGAGGTACTGTCAAAGCTGCTTCAGGATTCATGCCATGGAAGATGCCCAGA  
CCCTGAGGAAGGCCATGAAAGGGCTCGGCACCGATGAAGACGCCATTATTAGCGTCCTTGCCACCGCAA  
CACCGCCAGCGCCAGGAGATCAGGACAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTG  
AAGTCAGAACTGAGTGGCAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCACGGTGTGTATGACG  
TGCAAGAGCTGCGAAGGGCCATGAAGGGAGCCGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCCTC  
CCGACCCCTGAGGAGATCCGGCGCATAAGCCAAACCTACCAGCAGCAATATGGACGGAGCCTTGAAGAT  
GACATTCGCTCTGACACATCGTTCATGTTCCAGCGAGTGTGGTGTCTCTGTGACGCTGGTGGGAGGGATG  
AAGGAAATTATCTGGACGATGCTCTCGTGAGACAGGATGCCCAGGACCTGTATGAGGCTGGAGAGAAGAA  
ATGGGGGACAGATGAGGTGAAATTTCTAACTGTTCTGTTCGGGAACCGAAATCACCTGTTGCATGTG  
TTTGATGAATACAAAAGGATATCACAGAAGGATATTGAACAGAGTATTAATCTGAAACATCTGGTAGCT  
TTGAAGATGCTCTGCTGGCTATAGTAAAGTGCATGAGGAACAAATCTGCATATTTTGCTGAAAAGCTCTA  
TAAATCGATGAAGGGCTTGGCACCAGATGATAACCCCTCATCAGAGTATGTTTCTCGAGCAGAAATT  
GACATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTGTTTCATCAAGGGTG  
ACACATCTGGAGACTACAGGAAAGTACTGCTTGTCTCTGTGGAGGAGATGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203229 representing NM\_001153  
Red=Cloning site Green=Tags(s)

MAMATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLA YRNTAQRQEIRTA YKSTIGRDLIDDL  
 KSELSGNFEQVI VGMMPPTVL YD VQELRRAMK GAGTDEGLIEILASRTPEEIRRISQTYQQYGRSLED  
 DIRSDTSFMFQRVLVSL SAGGRDEGN YLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVLCSRNRNHLHVV  
 FDEYKRISQKDIEQS I KSETSGS FDEALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNTLIRVMVSRAEI  
 DMLDIRAHFKRLYGKSLYSFIKGDTS GDYRKVLLVLCGGDD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001153

**ORF Size:** 963 bp

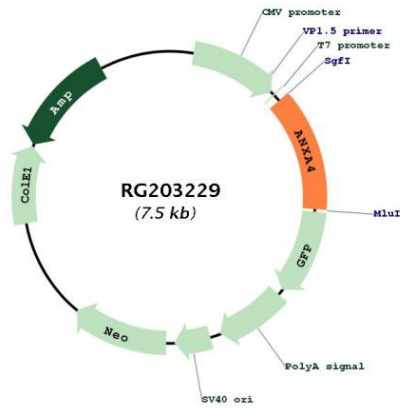
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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_001153.5</a>
<b>RefSeq Size:</b>	1982 bp
<b>RefSeq ORF:</b>	966 bp
<b>Locus ID:</b>	307
<b>UniProt ID:</b>	<a href="#">P09525</a>
<b>Cytogenetics:</b>	2p13.3
<b>Domains:</b>	annexin
<b>Gene Summary:</b>	Annexin IV (ANX4) belongs to the annexin family of calcium-dependent phospholipid binding proteins. Although their functions are still not clearly defined, several members of the annexin family have been implicated in membrane-related events along exocytotic and endocytotic pathways. ANX4 has 45 to 59% identity with other members of its family and shares a similar size and exon-intron organization. Isolated from human placenta, ANX4 encodes a protein that has possible interactions with ATP, and has in vitro anticoagulant activity and also inhibits phospholipase A2 activity. ANX4 is almost exclusively expressed in epithelial cells. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG203229