

Product datasheet for RC203229

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:	Myc-DDK
Symbol:	Annexin IV
Synonyms:	ANX4; HEL-S-274; P32.5; PAP-II; PIG28; PP4-X; ZAP36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203229 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATGGCAACCAAAGGAGGTACTGTCAAAGCTGCTTCAGGATTCATGCCATGGAAGATGCCCAGA
CCCTGAGGAAGGCCATGAAAGGGCTCGGCACCGATGAAGACGCCATTATTAGCGTCCTTGCCTACCGCAA
CACCGCCAGCGCCAGGAGATCAGGACAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTG
AAGTCAGAACTGAGTGGCAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCACGGTGTGTATGACG
TGCAAGAGCTGCGAAGGGCCATGAAGGGAGCCGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCCTC
CCGGACCCCTGAGGAGATCCGGCGCATAAGCCAAACCTACCAGCAGCAATATGGACGGAGCCTTGAAGAT
GACATTCGCTCTGACACATCGTTCATGTTCCAGCGAGTGTGGTGTCTCTGTGACGCTGGTGGGAGGGATG
AAGGAAATTATCTGGACGATGCTCTCGTGAGACAGGATGCCCAGGACCTGTATGAGGCTGGAGAGAAGAA
ATGGGGGACAGATGAGGTGAAATTTCTAACTGTTCTGTTCGGGAACCGAAATCACCTGTTGCATGTG
TTGATGAATACAAAAGGATATCACAGAAGGATATTGAACAGAGTATTAATCTGAAACATCTGGTAGCT
TTGAAGATGCTCTGCTGGCTATAGTAAAGTGCATGAGGAACAAATCTGCATATTTTGCTGAAAAGCTCTA
TAAATCGATGAAGGGCTTGGGCACCGATGATAACCCCTCATCAGAGTATGGTTCTCGAGCAGAAATT
GACATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTCGTTCATCAAGGGTG
ACACATCTGGAGACTACAGGAAAGTACTGCTTGTCTCTGTGGAGGAGATGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC203229 protein sequence
Red=Cloning site Green=Tags(s)

MAMATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLYRNTAQRQEIRTAYKSTIGRDLIDDL
 KSELSGNFEQVI VGMMPPTVL YDVQELRRAMKGAGTDEGLIEILASRTPEEIRRISQTYQQYGRSLED
 DIRSDTSFMFQRLVLSL SAGGRDEGNLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVLCSRNRNHLHVV
 FDEYKRISQKDIEQSIKSETSGSFEDALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNTLIRVMVSRAEI
 DMLDIRAHFKRLYGKSLYSFIKGDTSGDYRKVLLVLCGGDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6434_h10.zip

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).

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_001153.5](#)

RefSeq Size: 2158 bp

RefSeq ORF: 966 bp

Locus ID: 307

UniProt ID: [P09525](#)

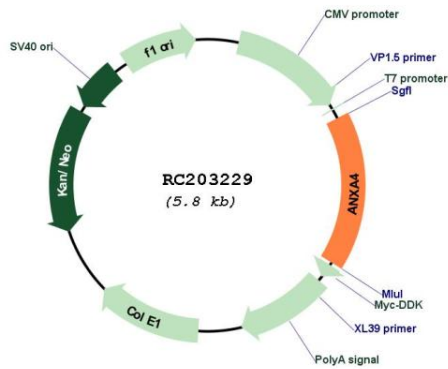
Cytogenetics: 2p13.3

Domains: annexin

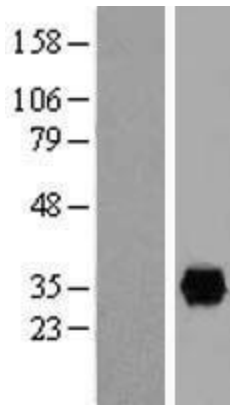
MW: 36.1 kDa

Gene Summary: 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]

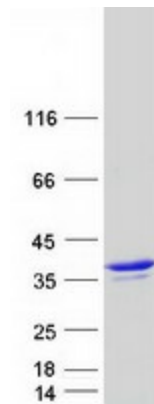
Product images:



Circular map for RC203229



Western blot validation of overexpression lysate (Cat# [LY420099]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203229 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANXA4 protein (Cat# [TP303229]). The protein was produced from HEK293T cells transfected with ANXA4 cDNA clone (Cat# RC203229) using MegaTran 2.0 (Cat# [TT210002]).