

Product datasheet for RC201540

Annexin A3 (ANXA3) (NM_005139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin A3 (ANXA3) (NM_005139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Annexin A3
Synonyms:	ANX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201540 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCATCTATCTGGGTTGGACACCGAGGAACAGTAAGAGATTATCCAGACTTTAGCCCATCAGTGGATG
CTGAAGCTATTCAGAAAGCAATCAGAGGAATTGGAAGTATGAGAAAATGCTCATCAGCATTCTGACTGA
GAGGTCAAATGCACAGCGGCAGCTGATTGTTAAGGAATATCAAGCAGCATATGGAAGGAGCTGAAAGAT
GACTTGAAGGGTATCTCTCTGGCCACTTTGAGCATCTCATGGTGGCCCTAGTGACTCCACCAGCAGTCT
TTGATGCAAAGCAGCTAAAGAAATCCATGAAGGGCGCGGAACAACGAAGATGCCTTGATTGAAATCTT
AACTACCAGGACAAGCAGGCAAATGAAGGATATCTCTCAAGCCTATTATACAGTATAACAAGAAGAGTCTT
GGAGATGACATTAGTTCCGAAACATCTGGTGACTTCCGGAAAGCTCTGTTGACTTTGGCAGATGGCAGAA
GAGATGAAAGTCTGAAAGTGGATGAGCATCTGGCCAAACAAGATGCCAGATTCTCTATAAAGCTGGTGA
GAACAGATGGGGCACGGATGAAGACAAATTCAGTGAATCCTGTGTTAAGGAGCTTTCCTCAATTA
CTAACATTTGATGAATACAGAAATATCAGCCAAAAGGACATTGTGGACAGCATAAAAGGAGAATTATCTG
GGCATTGTAAGACTTACTGTTGGCCATAGTTAATTGTGTGAGGAACACGCCGCCTTTTAGCCGAAAG
ACTGCATCGAGCCTTGAAGGGTATTGGAAGTATGAGTTACTCTGAACCGAATAATGGTGTCCAGATCA
GAAATTTGACCTTTGGACATTGCAACAGAGTTCAAGAAGCATTATGGCTATTCCTATATTCAGCAATTA
AATCGGATACTTCTGGAGACTATGAAATCACACTCTTAAAAATCTGTGGTGGAGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201540 protein sequence
Red=Cloning site Green=Tags(s)

MASIWVGHRTVRDYPDFSPSVDAEAIQKAIKRGIGTDEKMLISILTERSNAQRQLIVKEYQAAYGKELKD
 DLKGDLSGHFEHLMVALVTPPAVFDKQLKSKMGAGTNEDALIEILTRTSRQMKDISQAYTVYKSL
 GDDISSETSGDFRKALLTLADGRRDESLKVDEHLAKQDAQILYKAGENRWGTDEDKFTEILCLRSFPQLK
 LTFDEYRNISQKDIVDSIKGELSGHFEDLLLAIVNCVRNTPAFLAERLHRALKGIGTDEF TLNRMVSR
 SIDLLDIRTEFKKHYGSLYSAIKSDTSGDYEITLLKICGGDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6287_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005139

ORF Size: 969 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_005139.3](#)

RefSeq Size: 1634 bp

RefSeq ORF: 972 bp

Locus ID: 306

UniProt ID: [P12429](#)

Cytogenetics: 4q21.21

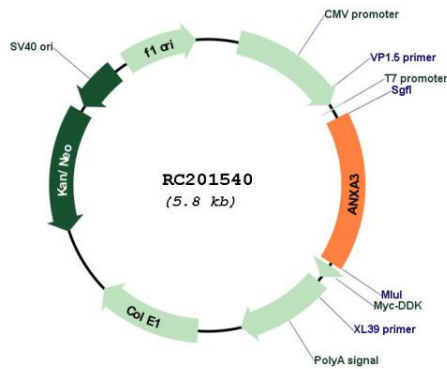
Domains: annexin

Protein Families: Stem cell - Pluripotency

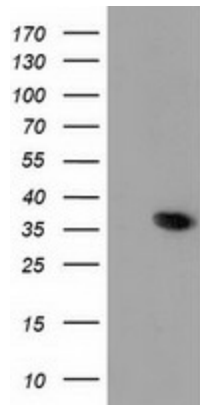
MW: 36.4 kDa

Gene Summary: This gene encodes a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions in the inhibition of phospholipase A2 and cleavage of inositol 1,2-cyclic phosphate to form inositol 1-phosphate. This protein may also play a role in anti-coagulation. [provided by RefSeq, Jul 2008]

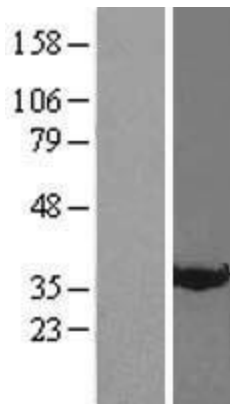
Product images:



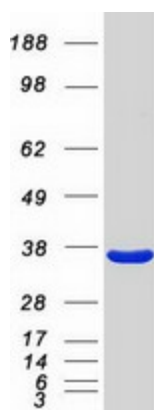
Circular map for RC201540



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANXA3 (Cat# RC201540, 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-ANXA3 (Cat# [TA502058]). Positive lysates [LY417500] (100ug) and [LC417500] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417500]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201540 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANXA3 protein (Cat# [TP301540]). The protein was produced from HEK293T cells transfected with ANXA3 cDNA clone (Cat# RC201540) using MegaTran 2.0 (Cat# [TT210002]).