

## Product datasheet for **RC200554**

### **ANXA9 (NM\_003568) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ANXA9 (NM\_003568) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ANXA9  
**Synonyms:** ANX31  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC200554 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACCGTCCCTACCCAGGAGATCCTCAGCCACCTGGGCCTGGCCAGCAAGACTGCAGCGTGGGGGA  
CCCTGGGCACCCTCAGGACCTTCTTGAACCTCAGCGTGGACAAGGATGCGCAGAGGCTACTGAGGGCCAT  
TACTGGCCAAGGCGTGGACCGCAGTGCCATTGTGGACGTGCTGACCAACCGGAGCAGAGAGCAAAGGCAG  
CTCATCTACGAAACTTCAGGAGCGCACCCAACAGGACCTGATGAAGTCTCTACAGGCAGCACTTTCCG  
GCAACCTGGAGAGGATTGTGATGGCTCTGCTGCAGCCACAGCCAGTTTGACGCCAGGAATTGAGGAC  
AGCTCTGAAGGCCTCAGATTCTGCTGTGGACGTGGCCATTGAAATCTTGCCACTCGAACCCACCCAG  
CTGCAGGAGTGCCTGGCAGTCTACAAACACAATTTCCAGGTGGAGGCTGTGGATGACATCACATCTGAGA  
CCAGTGGCATCTTGCAGGACCTGCTGTTGGCCCTGGCCAAGGGGGGCCGTGACAGCTACTCTGGAATCAT  
TGACTATAATCTGGCAGAACAAGATGTCCAGGCCCTGCAGCGGCAGAAAGGACCTAGCAGAGAGGAAACA  
TGGGTCCCAGTCTTACCCAGCGAAATCCTGAACACCTCATCCGAGTGTGATCAGTACCAGCGGAGCA  
CTGGGCAAGAGCTGGAGGAGGCTGTCCAGAACCCTTCCATGGAGATGCTCAGGTGGCTCTGCTCGGCC  
AGCTTCGGTGATCAAGAACACACCGCTGTACTTTGCTGACAACTTCATCAAGCCCTCCAGGAACTGAG  
CCCAATTACCAAGTCTGATTCGCATCCTTATCTCTCGATGTGAGACTGACCTTCTGAGTATCAGAGCTG  
AGTTCAGGAAGAAATTTGGGAAGTCCCTCTACTCTTCTCTCCAGGATGCAGTGAAAGGGGATTGCCAGTC  
AGCCCTCTGGCCTTGTGCAGGGCTGAAGACATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200554 protein sequence  
Red=Cloning site Green=Tags(s)

MAPSLTQEILSHLGLASKTAAWGTLGTLRTFLNFSVDKDAQRLLRITGQGVDRSAIVDVLTNRSREQRQ  
 LISRNQERTQQDLMKSLQAALSGNLERIVMALLQPTAQFDAQELRTALKASDSAVDVAIEILATRTPPQ  
 LQECLAVYKHNQVEAVDDITSETSGILQDLLLLALAKGGRDSYSGIIDYNLAEQDVQALQRAEGPSREET  
 WVPVFTQRNPEHLIRVFDQYQRSTGQELEEAVQNRFHGDAQVALLGLASVIKNTPLYFADKLHQALQETE  
 PNYQVLIRILISRCELDLLSIRAIEFRKKFGKSLYSSLQDAVKGDCQSALLALCRAEDM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6381\\_d08.zip](https://cdn.origene.com/chromatograms/mk6381_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003568

**ORF Size:** 1014 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\\_003568.1](#), [NP\\_003559.1](#)

**RefSeq Size:** 1843 bp

**RefSeq ORF:** 1038 bp

**Locus ID:** 8416

**UniProt ID:** [O76027](#)

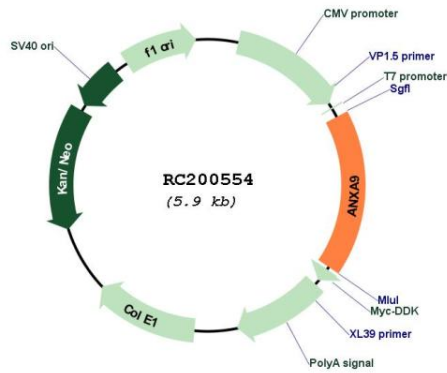
**Cytogenetics:** 1q21.3

**Domains:** annexin

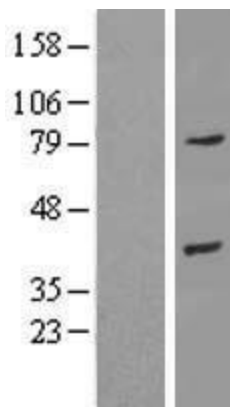
**MW:** 37.7 kDa

**Gene Summary:** The annexins are a family of calcium-dependent phospholipid-binding proteins. Members of the annexin family contain 4 internal repeat domains, each of which includes a type II calcium-binding site. The calcium-binding sites are required for annexins to aggregate and cooperatively bind anionic phospholipids and extracellular matrix proteins. This gene encodes a divergent member of the annexin protein family in which all four homologous type II calcium-binding sites in the conserved tetrad core contain amino acid substitutions that ablate their function. However, structural analysis suggests that the conserved putative ion channel formed by the tetrad core is intact. [provided by RefSeq, Jul 2008]

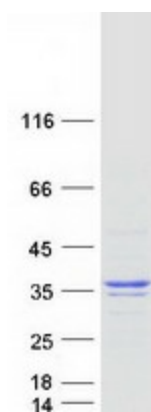
Product images:



Circular map for RC200554



Western blot validation of overexpression lysate (Cat# [LY418577]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200554 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANXA9 protein (Cat# [TP300554]). The protein was produced from HEK293T cells transfected with ANXA9 cDNA clone (Cat# RC200554) using MegaTran 2.0 (Cat# [TT210002]).