

Product datasheet for **RG200554**

ANXA9 (NM_003568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ANXA9
Synonyms:	ANX31
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200554 representing NM_003568
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCACCGTCCCTCACCCAGGAGATCCTCAGCCACCTGGGCCTGGCCAGCAAGACTGCAGCGTGGGGGA
CCCTGGGCACCCCTCAGGACCTTCTTGAATTTCAGCGTGGACAAGGATGCGCAGAGGCTACTGAGGGCCAT
TACTGGCCAAGGCGTGGACCGCAGTGCCATTGTGGACGTGCTGACCAACCGGAGCAGAGAGCAAAGGCAG
CTCATCTCAGAACTTCCAGGAGCGCACCCAACAGGACCTGATGAAGTCTCTACAGGCAGCACTTTCGG
GCAACCTGGAGAGGATTGTGATGGCTCTGCTGCAGCCACAGCCAGTTTGACGCCAGGAATTGAGGAC
AGCTCTGAAGGCCTCAGATTCTGCTGTGGACGTGGCCATTGAAATCTTGCCACTCGAACCCACCCAG
CTGCAGGAGTGCCTGGCAGTCTACAAACAATTTCCAGGTGGAGGCTGTGGATGACATCACATCTGAGA
CCAGTGGCATCTTGAGGACCTGCTGTTGGCCCTGGCCAAGGGGGCCGTGACAGCTACTCTGGAATCAT
TGACTATAATCTGGCAGAACAAAGATGTCCAGGCCCTGCAGCGGGCAGAAGGACCTAGCAGAGAGGAAACA
TGGGTCCCAGTCTTACCCAGCGAAATCCTGAACACCTCATCCGAGTGTTTGATCAGTACCAGCGGAGCA
CTGGGCAAGAGCTGGAGGAGGCTGTCCAGAACCGTTTCCATGGAGATGCTCAGGTGGCTCTGCTCGGCC
AGCTTCGGTGATCAAGAACACACCGCTGTACTTTGCTGACAACTTCATCAAGCCCTCCAGGAACTGAG
CCCAATTACCAAGTCTGATTGCGATCCTTATCTCTCGATGTGAGACTGACCTTCTGAGTATCAGAGCTG
AGTTACGGAAGAAATTTGGGAAGTCCCTCTACTTCTCTCCAGGATGCAGTGAAGGGGATTGCCAGTC
AGCCCTCCTGGCCTTGTGCAGGGCTGAAGACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG200554 representing NM_003568
 Red=Cloning site Green=Tags(s)

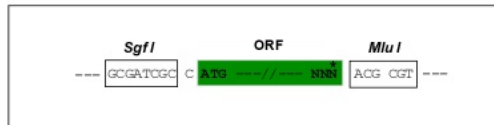
MAPSLTQEILSHLGLASKTAAWGTLGTLRTFLNFSVDKDAQRLRAITGQGVDRSAIVDVLTNRSREQRQ
 LISRNQFERTQQDLMKSLQAALSGNLERIVMALLQPTAQFDAQELRTALKASDSAVDVAIEILATRTPPQ
 LQECLAVYKHNQVEAVDDITSETSGILQDLLLLAKGGRDSYSGIIDYNLAEQDVQALQRAEGPSREET
 WVPVFTQRNPEHLIRVFDQYQRSTGQEEAVQNRFHGDAQVALLGLASVIKNTPLYFADKLHQALET
 PNYQVLIIRILISRCETDLLSIRAEFRKKFGKSLYSSLQDAVKGDCQSALLALCRAEDM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_003568

ORF Size: 1014 bp

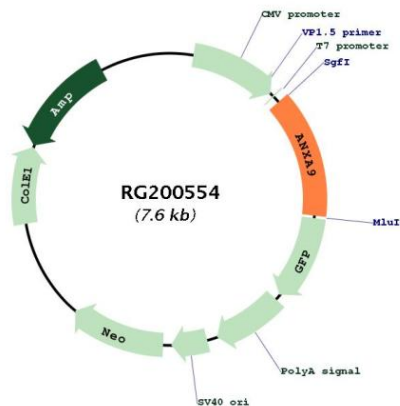
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_003568.2 , NP_003559.2
RefSeq Size:	1843 bp
RefSeq ORF:	1038 bp
Locus ID:	8416
UniProt ID:	O76027
Cytogenetics:	1q21.3
Domains:	annexin
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 RG200554