

## Product datasheet for **RG216809**

### Annexin VI (ANXA6) (NM\_004033) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VI (ANXA6) (NM_004033) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Annexin VI
Synonyms:	annexin A6; annexin VI; annexin VI (p68); ANX6; calcium-binding protein p68; calelectrin; calphobindin II; CBP68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG216809 representing NM\_004033  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAAACCAGCACAGGGTGCCAAGTACCGGGCTCCATCCATGACTTCCCAGGCTTTGACCCCAACC  
 AGGATGCCGAGGCTCTGTACACTGCCATGAAGGCCTTTGGCAGTGACAAGGAGGCCATACCTGGACATAAT  
 CACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTTACGGCAAGGACCTC  
 ATTGCTGATTTAAAGTATGAATTGACGGCAAGTTGAACGGTTGATTGTGGCCTGATGAGGCCACCTG  
 CCTATTGTGATGCCAAAGAAATTAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCCTCATTGA  
 GATCTTGGCTTCCCGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGG  
 GACCTGGAGGCTGACATCATCGGCACACCTCTGGCCACTCCAGAAGATGCTTGTGGTCTGCTCCAGG  
 GAACCAGGGAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGC  
 AGGGAACTGAAATGGGGAACAGATGAAGCCCAGTTTACATCTTGGGAAATCGCAGCAAGCAGCAT  
 CTTCCGTTGGTGTTCGATGAGTATCTGAAGACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGC  
 TGCTGGGGACTTTGAGAAGCTAATGCTGGCCGTAGTGAAGTGTATCCGGAGCACCCCGGAATTTTTGC  
 TGAAAGGCTCTTCAAGGCTATGAAGGCCTGGGGACTCGGGACAACACCTGATCCGCATCATGGTCTCC  
 CGTAGTGAGTTGGACATGCTCGACATTCGGGAGATCTTCCGGACCAAGTATGAGAAGTCCCTCTACAGCA  
 TGATCAAGAAATGACACCTCTGGCGAGTACAAGAAGACTCTGCTGAAGCTGTCTGGGGGAGATGATGATGC  
 TGCTGGCCAGTTCTTCCCGAGGCAGCGCAGGTGGCCTATCAGATGTGGGAAGTGTAGTGCAGTGGCCCGA  
 GTAGAGCTGAAGGAACTGTGCGCCAGCAATGACTTCAACCTGACGCAGATGCCAAAGCGCTGCGGA  
 AAGCCATGAAGGGACTCGGGACTGACGAAGACACAATCATCGATATCATCACGCACCGCAGCAATGTCCA  
 GCGGCAGCAGATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAATGACTGACCTGAAGTCTGAG  
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 TGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAAATCCTGGCCACTCGGACCAA  
 TGCTGAAATCCGGGCCATCAATGAGGCCTATAAGGAGGACTATCACAAAGTCCCTGGAGGATGCTCTGAGC  
 TCAGACACATCTGGCCACTTCAGGAGGATCCTCATTTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAG  
 AAAACCTGGACCAGGCACGGGAAGTGCCAGGAAATAGCAGACACACCTAGTGGAGACAAAACCTCCTT  
 GGAGACACGTTTCATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGGAGAGTCTTCCAGGAGTTC  
 ATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAGGAGATGTCTGGGGATGTCAGGGATGCAT  
 TTGTGGCCATTGTTCAAAGTGTCAAGAACAAGCCTCTCTTTGCCGACAACTTTACAAATCCATGAA  
 GGGTGCTGGCACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAAC  
 ATCCGGAGGGAATTCATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAG  
 ACTTCTGAAGGCCTTGCTGGCTCTCTGTGGTGGTGAGGAC

**ACCGGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG216809 representing NM\_004033  
 Red=Cloning site Green=Tags(s)

```

MAKPAQGAKYRGSIHDFPGFDPNQDAEALYTAMKGFSGDKEAILDIIITSRSNRQRQEVCSYKSLYGKDL
IADLKYELTGKFERLIVGLMRPPAYCDAKEIKDAISGIGTDEKCLIEILASRTNEQMHQLVAAYKDAYER
DLEADIIGDTSGHFQKMLVLLQGTREDDVVSSEDLVQQDVQDLYEAGELKWTDEAQFIYILGNRSKQH
LRLVFDEYLKTTGKPIEASIRGELSGDFEKLMLAVVKCIRSTPEYFAERLFKAMKGLGTRDNTLIRIMVS
RSELDMLDIREIFRTKYEKSLYSMIKNDTSGEYKKTLLKLSGGDDDAAGQFFPEAAQVAYQMWELSAVAR
VELKGTVRPANDFPDADAKALRKAMKGLGTDDETIIDIITHRSNVQRQQIRQTFKSHFGRDLMTDLKSE
ISGDLARLILGLMPPAHYDAKQLKKAMEGAGTDEKALIEILATRTNAEIRAINAYKEDYHKSLEDALS
SDTSGHFRRILISLATGHREEGGENLDQAREDAQEIAADTPSGDKTSLETRFMTILCTRSYPHLRRVFQEF
IKMTNYDVEHTIKKEMSGDVRDAFVAIVQSVKNKPLFFADKLYKSMKGAGTDEKTLTRIMVSRSEIDLLN
IRREFIEKYDKSLHQAIEGDTSGDFLKALLALCGGED
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004033

**ORF Size:** 2001 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\\_004033.2](#), [NP\\_004024.2](#)

**RefSeq Size:** 2897 bp

**RefSeq ORF:** 2003 bp

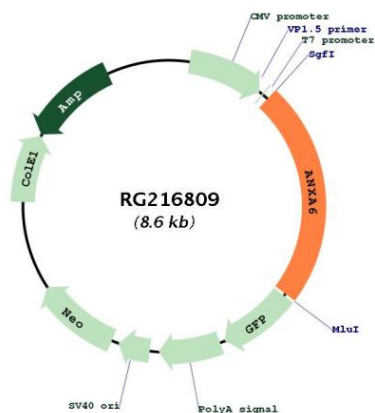
**Locus ID:** 309

**Cytogenetics:** 5q33.1

**Domains:** annexin

**Gene Summary:** Annexin VI belongs to a family of calcium-dependent membrane and phospholipid binding proteins. Several members of the annexin family have been implicated in membrane-related events along exocytotic and endocytotic pathways. The annexin VI gene is approximately 60 kbp long and contains 26 exons. It encodes a protein of about 68 kDa that consists of eight 68-amino acid repeats separated by linking sequences of variable lengths. It is highly similar to human annexins I and II sequences, each of which contain four such repeats. Annexin VI has been implicated in mediating the endosome aggregation and vesicle fusion in secreting epithelia during exocytosis. Alternatively spliced transcript variants have been described. [provided by RefSeq, Aug 2010]

**Product images:**



Circular map for RG216809