

Product datasheet for **RG230861**

Annexin VI (ANXA6) (NM_001193544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Annexin VI (ANXA6) (NM_001193544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANXA6
Synonyms:	ANX6; CBP68; CPB-II; p68; p70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG230861 representing NM_001193544
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAAACCAGCACAGGGTGCCAAGTACCGGGCTCCATCCATGACTCCCAGGCTTTGACCCCAACC
AGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAGGCCATACTGGACATAAT
CACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTACGGCAAGGACCTC
ATTGCTGATTTAAAGTATGAATTGACGGCAAGTTGAACGGTTGATTGTGGCCTGATGAGGCCACCTG
CCTATTGTGATGCCAAAGAAATTAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCCTCATTGA
GATCTTGGCTTCCCGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGG
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GAACCAGGGAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGC
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ACTTTACAAATCCATGAAGGGTCTGGCACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGT
GAGATTGACCTGCTCAACATCCGGAGGGAATTCATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTG
AGGGTGACACCTCCGGAGACTTCTGAAGGCCTTGTGGCTCTCTGTGGTGGTGAGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230861 representing NM_001193544
 Red=Cloning site Green=Tags(s)

MAKPAQGAKYRGSIHDFPGFDPNQDAEALYTAMKGFSGDKEAILDIIITSRNRQRQEVQCQSYKSLYGKDL
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 LRLVFDEYLKTTGKPIEASIRGELSGDFEKLMLAVVKCIRSTPEYFAERLFAKMKGLGTRDNTLIRIMVS
 RSELDMLDIREIFRTKYEKSLYSMIKNDTSGEYKTLKLLSGGDDAAGQFFPEAAQVAYQMWELSAVAR
 VELKGTVRPANDFNPDADAKALRKAMKGLGTDEDIIDIIITHRSNVQRQQIRQTFKSHFGRDLMTDLKSE
 ISGDLARLILGLMPPAHYDAKQLKKAMEGAGTDEKALIEILARTNAEIRAINAYKEDYHKSLEDALS
 SDTSGHFRRILISLATGHREEGGENLDQAREDAQVAEILEIADTPSGDKTSLETRFMTILCTRSYPHLR
 RVFQEFIKMTNYDVEHTIKKEMSGDVRDAFVAIVQSVKNKPLFFADKLYKSMKGAGTDEKTLTRIMVSRS
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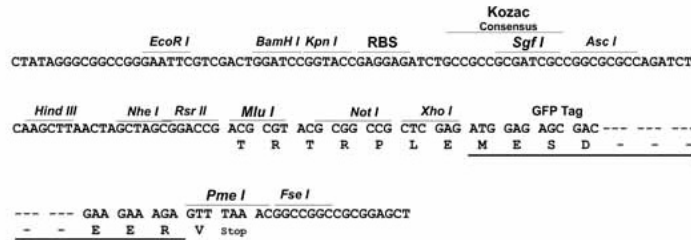
TRTRPLE - GFP Tag - V

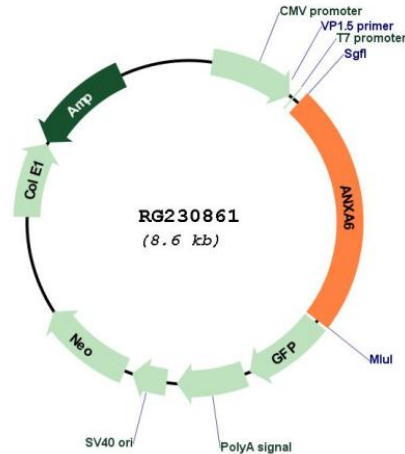
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001193544

ORF Size: 2022 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_001193544.1](#), [NP_001180473.1](#)

RefSeq Size: 2879 bp

RefSeq ORF: 1926 bp

Locus ID: 309

UniProt ID: [P08133](#)

Cytogenetics: 5q33.1

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]