

Product datasheet for **RG218589**

ANTXR2 (NM_058172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANTXR2 (NM_058172) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANTXR2
Synonyms:	CMG-2; CMG2; HFS; ISH; JHF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG218589 representing NM_058172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCGGAGCGGTCCCCGGCCCGCAGCCCCGGGAGCTGGCTGTTCCCCGGGCTGTGGCTGTTGGTGC
 TCAGCGGTCCCGGGGGCTGCTGCGCGCCAGGAGCAGCCCTCCTGCAGAAGAGCCTTTGATCTCTACTT
 CGTCCTGGACAAGTCTGGGAGTGTGGCAAATAACTGGATTGAAATTTATAATTCGTACAGCAACTTGCG
 GAGAGATTTGTGAGCCCTGAAATGAGATTATCTTTCATTGTGTTTTCTTCTCAAGCAACTATTATTTTGC
 CATTAAGTGGAGACAGAGGCAAAATCAGTAAAGGCTTGGAGGATTTAAACGTGTTAGTCCAGTAGGAGA
 GACATATATCCATGAAGGACTAAAGCTAGCGAATGAACAAATTCAGAAAGCAGGAGGCTTGAAAACCTCC
 AGTATCATAATTGCTCTGACAGATGGCAAGTTGGACGGTCTGGTGCCATCATATGCAGAGAAAGAGGCAA
 AGATATCCAGGTCACTTGGGGCTAGTGTATTATTGTGTTGGTGTCTTGATTTTGAACAAGCACAGCTTGA
 AAGAATTGCTGATTCCAAGGAGCAAGTTTCCCTGTCAAAGGTGGATTTCAAGGCTCTTAAAGGAATAATT
 AATTCTATACTAGCTCAGTCATGTACTGAAATCCTAGAATTGCAGCCCTCAAGTGTCTGTGTGGGGGAGG
 AATTTTCAGATTGTCTTAAGTGAAGAGGATTATGCTGGGCACTCGGAATGGCAGTGTCTCTGCACTTA
 CACTGTAAATGAAACATATACAACGAGTGTAAACCAAGTAAAGTGTACAGCTTAATTCTATGCTTTGTCT
 GCACCTATCCTGAATAAGCTGGAGAACTCTTGATGTTTCAGTGAGCTTTAATGGAGGAAAACTGTCA
 TTTCAGGATCATTAAATGTACAGCCACAGAATGTTCTAACGGGATCGCAGCCATCATTGTTATTTTGGT
 GTTACTGCTACTCCTGGGATCGGTTTGATGTGGTGGTTTTGGCCCTTTGCTGCAAAGTGGTTATTAAG
 GATCCTCCACCACCACCCGCCCTGCACCAAAAGAGGAGGAAGAAGAACCTTTGCCTACTAAAAAGTGGC
 CAACTGTGGATGCTTCTATTATGGTGGTTCGAGGGGTTGGAGGAATTAAGAATGGAGGTTTCGTTGGG
 TGATAAAGGATCTACTGAGGAAGGTGCAAGGCTAGAGAAAGCCAAAAATGCTGTGGTGAAGATTCTTGAA
 GAAACAGAGGAACCCATCAGGCCTAGACCACCTGACCCAAACCCACACACCAGCCTCTCAGACAAAAT
 GGTACACCCCAATTAAGGGTCGTCTTGATGCTCTGAGGCTTTGTTGAGGCGGCAGTATGACCGGGTTTC
 TTTGATGCGACCTCAGGAAGGAGATGAGGGCCGGTGCATAAACTTCTCCCGAGTTCCATCTCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218589 representing NM_058172
 Red=Cloning site Green=Tags(s)

MVAERSPARSPGSLFPGLWLLVLSGPGGLLRAQEQPSCRRAFDLYFVLDSGSGVANNWIEIYNFVQQLA
 ERFVSPERMRLSFIVFSSQATIIPLTGDRGKISKGLEDLKRVSPVGETYIHEGLKLANEQIQKAGGLKTS
 SIIIALTDGKLDGLVPSYAEKEAKISRLGASVYCVGLDFEQAQLERIADSKEQVFPVKGGFQALKGII
 NSILAQSCTEILELQPSSVCVGEFQIVLSGRGFMLGSRNGSVLCTYTVNETYTTSVKPVSVQLNSMLCP
 APILNKAGETLDVSVSFNGGKSVISGLIVTATECSNGIAAIIIVILVLLLLIGLMWWFWPLCCKVVIK
 DPPPAPAPKEEEEEPLPTKKWPTVDASYGGRGVGGIKRMEVRWGDKGSTEEGARLEKAKNAVVKIPE
 ETEEPIRPPRPKPTHQPPQTKWYTIKGRDLALWALLRRQYDRVSLMRPQEGDEGRCINFSRVPSQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_058172

ORF Size: 1464 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_058172.6](#)

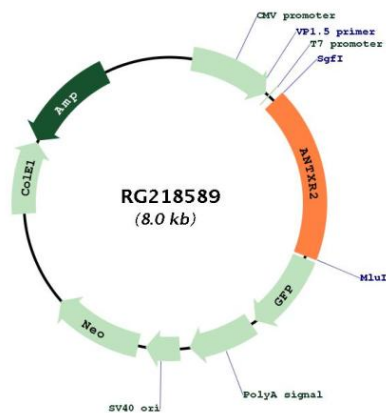
RefSeq Size: 3881 bp

RefSeq ORF: 1467 bp

Locus ID: 118429

UniProt ID:	P58335
Cytogenetics:	4q21.21
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a receptor for anthrax toxin. The protein binds to collagen IV and laminin, suggesting that it may be involved in extracellular matrix adhesion. Mutations in this gene cause juvenile hyaline fibromatosis and infantile systemic hyalinosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG218589