

## Product datasheet for **RG227771**

### ANTXR2 (NM\_001145794) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANTXR2 (NM_001145794) 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:**

>RG227771 representing NM\_001145794  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGGCGGAGCGGTCCCCGGCCCGCAGCCCCGGGAGCTGGCTGTTCCCCGGGCTGTGGCTGTTGGTGC  
 TCAGCGGTCCCGGGGGCTGCTGCGCGCCAGGAGCAGCCCTCCTGCAGAAGAGCCTTTGATCTCTACTT  
 CGTCTGGACAAGTCTGGGAGTGTGGCAAATAACTGGATTGAAATTTATAATTCGTACAGCAACTTGGC  
 GAGAGATTTGTGAGCCCTGAAATGAGATTATCTTTCATTGTGTTTTCTTCTCAAGCAACTATTATTTGC  
 CATTAAGTGGAGACAGAGGCAAATCAGTAAAGGCTTGGAGGATTTAAAACGTGTAGTCCAGTAGGAGA  
 GACATATATCCATGAAGGACTAAAGCTAGCGAATGAACAAATTCAGAAAGCAGGAGGCTTAAAACTCC  
 AGTATCATAATTGCTCTGACAGATGGCAAGTTGGACGGTCTGGTCCATCATATGCAGAGAAAGAGGCAA  
 AGATATCCAGGTCCTTGGGCTAGTGTATTATTGTGTTGGTGCCTTGATTTTGAACAAGCACAGCTTGA  
 AAGAATTGCTGATTCCAAGGAGCAAGTTTTCCCTGTCAAAGGTGGATTTCAAGGCTCTAAAGGAATAATT  
 AATTCTATACTAGCTCAGTCATGTACTGAAATCCTAGAATTGCAGCCCTCAAGTGTCTGTGTGGGGAGG  
 AATTTTCAGATTGTCTTAAGTGAAGAGGATTCATGCTGGCAGTCGGAATGGCAGTGTCTCTGCACTTA  
 CACTGTAATGAAACATATACAACGAGTGTAAAACAGTAAGTGTACAGCTTAATTCTATGCTTTGTCT  
 GCACCTATCCTGAATAAAGCTGGAGAACTCTTGATGTTTCAGTGAAGCTTAAATGGAGGAAAACTGTCA  
 TTTTCAGGATCATTAAATGTCACAGCCACAGAATGTTCTAACGGATCGCAGCCATCATTGTTATTTGGT  
 GTTACTGCTACTCCTGGGATCGGTTTGTGTTGGTGGTTTTGGCCCTTTGCTGCAAAGTGGTTATTAAG  
 GATCCTCCACCACCACCCGCCCTGCACCAAAGAGGAGGAAGAAGAACCCTTGCCTACTAAAAAGTGGC  
 CAACTGTGGATGCTTCTATTATGGTGGTGGGAGGTTGGAGGAATTAAGAATGGAGGTTGTTGGGG  
 TGATAAAGGATCTACTGAGGAAGTGCAAGGCTAGAGAAAGCCAAAAATGCTGTGGTGAAGATTCCTGAA  
 GAAACAGAGGAACCCATCAGGCCTAGACCACCTGACCCAAACCCACACACCAGCCTCCTCAGACAAAAT  
 GGTACACCCCAATTAAGGGTCGCTTGTGCTCTCTGGGCTTTGTTGAGGCGGCAGTATGACCGGGTTTC  
 TTTGATGCGACCTCAGGAAGGAGATGAGGTTTGTATATGGGAATGATTGAGAAAGAGCTAACTGCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG227771 representing NM\_001145794  
 Red=Cloning site Green=Tags(s)

MVAERSPARSPGSLFPGLWLLVLSGPGGLLRAQEQPSCRRAFDLYFVLDKSGSVANNWIEIYNFVQQLA  
 ERFVSPMRLSFIVFSSQATIIILPLTGDRGKISKGLEDLKRVSPVGETYIHEGLKLANEQIQKAGGLKTS  
 SIIIALTDGKLDGLVPSYAEKEAKISRSLGASVYCVGLDFEQQLERIASKEQVFPVKGGFQALKGII  
 NSILAQSCTEILELQPSSVYCVGEEFQIVLSGRGFMLGSRNGSVLCTYTVNETYTTSVKPVSVQLNSMLCP  
 APILNKAGETLDVSVSFGGKSVISGSLIVTATECSNGIAAIIIVILVLLLLLIGLMMWFWPLCCKVVIK  
 DPPPPPAPAPKEEEEEPLPTKKWPTVDASYGGRGVGGIKRMEVVRWGDKGSTEEGARLEKAKNAVVKIPE  
 ETEEPIRPPRPKPTHQPPQTKWYTPIKGRDLALWALLRRQYDRVSLMRPQEGDEVCIWECIEKELTA

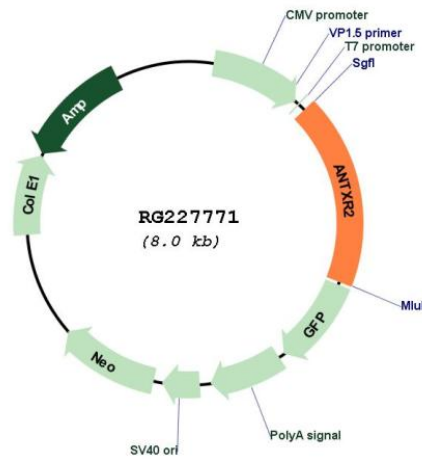
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**


ACCN: NM\_001145794  
 ORF Size: 1467 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_001145794.1</a>, <a href="#">NP_001139266.1</a></p>
<b>RefSeq Size:</b>	<p>2314 bp</p>
<b>RefSeq ORF:</b>	<p>1470 bp</p>
<b>Locus ID:</b>	<p>118429</p>
<b>UniProt ID:</b>	<p><a href="#">P58335</a></p>
<b>Cytogenetics:</b>	<p>4q21.21</p>
<b>Protein Families:</b>	<p>Druggable Genome, Transmembrane</p>
<b>Gene Summary:</b>	<p>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]</p>