

Product datasheet for **RG212087**

NPTXR (NM_014293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPTXR (NM_014293) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPTXR
Synonyms:	NPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212087 representing NM_014293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

CTGAAGTTCCTGGCCGTGCTGCTGGCCGCGGGCATGCTGGCGTTCCTCGGTGCCGTATCTGCATCATCG
 CCAGCGTGCCCTGGCGGCCAGCCCGGCCGCGGGCGCTGCCCGGCCGCGCCGACAATGCTTCGGTCGCCTC
 GGGCGCCGCCCGCTCCCGGGCCCGCAGCGGAGCCTGAGCGCGTGCACGGCGCGGGCGTTTCAGCCGGG
 CCCCCGCGTGCCCGGGGACCCCGCGGCCAGCGCGCACCCGCTGCCCGCCGGGCCCTGTTTCAGCCGCT
 TCCTGTGCACGCCGTGGCTGCTGCCTGCCCGTGGGGGCCAGCAGGGGGACCGGGCGGGCGTGCAGCAG
 GGGCGAGCGGAAGAGCTGCTGCTGCTGCAGAGCACGGCCGAGCAGTGCAGCAGCGGCGCTGCAGCAG
 GAGGCGCGCATCCGCGCCGACCAGGACACCATCCGTGAGCTCACCGCAAGCTGGCCGCTGCGAGAGCG
 GCCTGCCGCGCGCTCCAGGGCGCCGGCCCCCGCGCACACCATGGCCGACGGGCCCTGGGACTCGCC
 TGGCTCATTCTGGAGCTGGAGGACGCCGTGCGCGCCCTGCGGGACCGCATCGACCGCTGGAGCAGGAG
 TTCCAGCCCGTGAACCTCTCAGCTGCCCCAGCCCCAGTCTCTGCTGTGCCACCGGCCCTACACTCCA
 AGATGGACCAGCTGGAGGGGAGCTGCTGGCCAGGTGCTGGCACTGGAGAAGGAGCGTGTGGCCCTCAG
 CCACAGCAGCCCGCGCAGAGGCAGGAAGTGGAAAAGGAGTTGGACGTCCTGCAGGGTCTGTGGCTGAG
 CTGGAGCAGGGTCTCAGCCTACAGTCTCCAGATGCCCTCAAGATCAGCATCCCCATCCGTAACAAC
 ACATGTACGCCCGCTGCGGAAGGCTCTGCCCGAGCTCTACGCATTCACCGCCTGCATGTGGCTGCGGTC
 CAGGTCCAGCGGCCAGCGCCAGGGCACCCCTTCTCTACTCAGTGGCCGGCAGGCCAACGAGATTGTA
 CTGCTAGAGGCGGGCCATGAGCCCATGGAGTCTGCATCAACGACAAGGTGGCCAGCTGCCCTGAGCC
 TGAAGACAATGGCTGGCACACATCTGCATCGCCTGGACCACAAGGGATGGCCTATGGTCTGCCTACCA
 GGACGGGAGCTGCAGGGCTCCGGTGAGAACCTGGCTGCCACCCCATCAAGCCTCATGGGATCCTT
 ATCTTGGGCCAGGAGCAGGATACCCTGGGTGGCCGGTTTATGCCACCCAGGCCTTTGTCGGTGACATTG
 CCCAGTTTAACTGTGGGACCACGCCCTGACACCAGCCAGGTCCTGGGCATTGCCAACTGCACTGCGCC
 ACTGCTGGCAACGTCCTTCCCTGGGAAGACAAGTTGGTGGAGGCCTTTGGGGTGCAACAAGGCTGCC
 TTCGATGTCTGCAAGGGGAGGCCAAGGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212087 representing NM_014293
 Red=Cloning site Green=Tags(s)

LKFLAVLLAAGMLAFLGAVICIIASVPLAASPARALPGGADNASVASGAAASPGPQRSLALHGAGGSAG
 PPALPGAPAASAHPLPPGPLFSRFLCTPLAAACPSGAQQGDAAGAAPGEREELLLLQSTAEQLRQTALQQ
 EARIRADQDTIRELTGKLRCEGLPRGLQGAGPRRDTMADGPWDSPALILELEDAVRALRDRIDRLEQE
 LPARVNL SAAPAVSAVPTGLHSKMDQLEGQLLAQVLALEKERVLSHSSRRQRQVEKELDVLQGRVAE
 LEHGSSAYSPPDAFKISIPIRNNMYARVRKALPELYAFTACMWLRSRSGTGQGPFSYSVPGQANEIV
 LLEAGHEPMELLINDKVAQLPLSLKDNQWHHICIAWTTTRDGLWSAYQDGELQSGENLAAWHPKPHGIL
 ILGQEQDTLGGRFDATQAFVGDIAQFNLDHALTPAQVLGIANCTAPLLGNVLPWEDKLVEAFGGATKAA
 FDVCKGRAKA

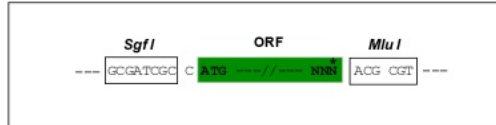
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



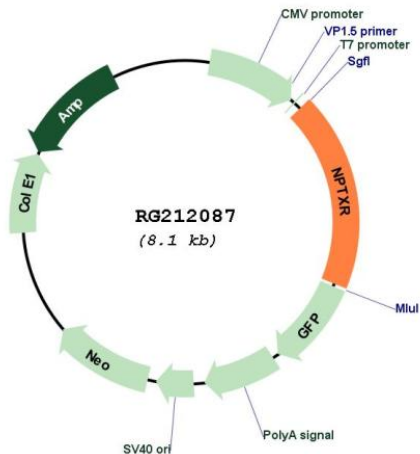
Cloning sites used for ORF Shutting:

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ----
T R T R P L E M E S D - - -

PmeI FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
- - E E R V Stop

Plasmid Map:



ACCN: NM_014293

ORF Size: 1500 bp

OTI Disclaimer:	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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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:	<ol style="list-style-type: none"> 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_014293.4
RefSeq Size:	5814 bp
RefSeq ORF:	1503 bp
Locus ID:	23467
UniProt ID:	O95502
Cytogenetics:	22q13.1
Domains:	PTX
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a protein similar to the rat neuronal pentraxin receptor. The rat pentraxin receptor is an integral membrane protein that is thought to mediate neuronal uptake of the snake venom toxin, taipoxin, and its transport into the synapses. Studies in rat indicate that translation of this mRNA initiates at a non-AUG (CUG) codon. This may also be true for mouse and human, based on strong sequence conservation amongst these species. [provided by RefSeq, Jul 2008]