

## Product datasheet for **RG210395**

### Neurokinin 1 Receptor (TACR1) (NM\_001058) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurokinin 1 Receptor (TACR1) (NM_001058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neurokinin 1 Receptor
Synonyms:	NK1R; NKIR; SPR; TAC1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210395 representing NM_001058 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATAACGTCCTCCCGGTGGACTCAGACCTCTCCCAAACATCTCCACTAACACCTCGGAACCAATC  
AGTTCGTGCAACCAGCCTGGCAAATTGCTTTGGGCAGCTGCCTACACGGTCATTGTGGTGACCTCTGT  
GGTGGGCAACGTGGTAGTGATGTGGATCATCTTAGCCACAAAAGAATGAGGACAGTGACGAACATTTT  
CTGGTGAACCTGGCCTTCGCGGAGGCCTCCATGGCTGCATTCAATACAGTGGTGAACCTTCACCTATGCTG  
TCCACAACGAATGGTACTACGGCCTGTTCTACTGCAAGTCCACAACCTTCTTCCCATCGCCGCTGTCTT  
CGCCAGTATCTACTCCATGACGGCTGTGGCCTTTGATAGGTACATGGCCATCATACATCCCTCCAGCCC  
CGGCTGTGAGCCACAGCCACAAAGTGGTCATCTGTGTACTCTGGTCTCTGGCTCTCTGCTGGCCTTCC  
CCCAGGGCTACTACTCAACCACAGAGACCATGCCAGCAGAGTCGTGTGCATGATCGAATGGCCAGAGCA  
TCCGAACAAGATTTATGAGAAAGTGTACCACATCTGTGTGACTGTGCTGATCTACTTCTCCCCCTGCTG  
GTGATTGGCTATGCATACACCGTAGTGGGAATCACACTATGGCCAGTGAGATCCCCGGGGACTCCTCTG  
ACCGCTACCACGAGCAAGTCTCTGCCAAGCGCAAGGTGGTCAAATGATGATTGTCGTGGTGTGCACCTT  
CGCCATCTGCTGGCTGCCCTTCCACATCTTCTCTCTGCCCTACATCAACCCAGATCTCTACCTGAAG  
AAGTTTATCCAGCAGGTCTACCTGGCCATCATGTGGCTGGCCATGAGCTCCACCATGTACAACCCCATCA  
TCTACTGCTGCCTCAATGACAGTTCCGTCTGGGCTTCAAGCATGCCTTCCGGTGTGCTGCCCTTTCATCAG  
CGCCGGCGACTATGAGGGGCTGAAATGAAATCCACCCGGTATCTCCAGACCCAGGGCAGTGTGTACAAA  
GTCAGCCGCTGGAGACCACCATCTCCACAGTGGTGGGGCCACGAGGAGGAGCCAGAGGACGGCCCCA  
AGGCCACACCCTCGTCCCTGGACCTGACCTCCAAGTCTTTCACGAAGTACTCCAAGACCATGACAGA  
GAGCTTCAGTCTCTCTCCAATGTGCTCTCC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210395 representing NM\_001058  
 Red=Cloning site Green=Tags(s)

MDNVLPVDSLDSPNISTNTSEPNQFVQPAWQIVLWAAAYTVIVVTSVVGNNVVMWII LAHKRMRTVTNYF  
 LVNLAF AEASMAAFNTVVNFTYAVHNEWYYGLFYCKFHNFPPIAAVFASIYSMTAVAFDRYMAIIHPLQP  
 RLSATATKVVVICVIWVLLALLLAFPOGYSTTETMPSRVVCMIEWPEHPNKIYEKVVYHICVTVLIYFLPLL  
 VIGYAYTVVGITLWASEIPGDSSDRYHEQVS AKRKVVKMMIVVCTFAICWLPFHIFLLPYINPDLYLK  
 KFIQVVYLAIMWLAMSSMTMYPNPIIYCCLNDRFRLGFKHAFRCPPISAGDYEGLMKSTRYLQQTQGSVYK  
 VSRLETTISTVGAHEEPEPDGPKATPSSLDLTSNCSSRSDSKTMTESFSFSSNVLS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001058

**ORF Size:** 1221 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\\_001058.4](#)

**RefSeq Size:** 1766 bp

**RefSeq ORF:** 1224 bp

**Locus ID:** 6869

**UniProt ID:** [P25103](#)

**Cytogenetics:** 2p12

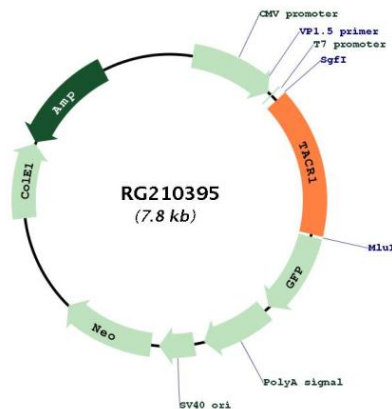
**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction

**Gene Summary:** This gene belongs to a gene family of tachykinin receptors. These tachykinin receptors are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin substance P, also referred to as neurokinin 1. The encoded protein is also involved in the mediation of phosphatidylinositol metabolism of substance P. [provided by RefSeq, Sep 2008]

## Product images:



Circular map for RG210395