

Product datasheet for **RG212934**

Neurokinin 1 Receptor (TACR1) (NM_015727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurokinin 1 Receptor (TACR1) (NM_015727) 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:	>RG212934 representing NM_015727 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAACGTCCTCCCGGTGGACTCAGACCTCTCCCAACATCTCCACTAACACCTCGGAACCAATC
AGTTCGTGCAACCAGCCTGGCAAATTGCCTTTGGGCAGCTGCCTACACGGTCATTGTGGTGACCTCTGT
GGTGGCAACGTGGTAGTGATGTGGATCATCTTAGCCACAAAAGAATGAGGACAGTGACGAACTATTTT
CTGGTGAACCTGGCCTTCGCGGAGGCCTCCATGGCTGCATTCAATACAGTGGTGAACCTCACCTATGCTG
TCCACAACGAATGGTACTACGGCCTGTTCTACTGCAAGTCCACAACCTTCTTCCCATCGCCGCTGTCTT
CGCCAGTATCTACTCCATGACGGCTGTGGCCTTTGATAGGTACATGGCCATCATACATCCCTCCAGCCC
CGGCTGTGAGCCACAGCCACAAAGTGGTCATCTGTGTCATCTGGGTCTGGCTCTCCTGCTGGCCTTCC
CCCAGGGCTACTACTCAACCACAGAGACCATGCCAGCAGAGTCGTGTGCATGATCGAATGGCCAGAGCA
TCCGAACAAGATTTATGAGAAAGTGTACCACATCTGTGTGACTGTGCTGATCTACTTCTCCCCCTGCTG
GTGATTGGCTATGCATACACCGTAGTGGGAATCACACTATGGCCAGTGAGATCCCCGGGGACTCCTCTG
ACCGTACCACGAGCAAGTCTCTGCCAAGCGCAAGGTGGTCAAAATGATGATTGTCGTGGTGTGCACCTT
CGCCATCTGCTGGCTGCCCTTCCACATCTTCTCCTCCTGCCCTACATCAACCCAGATCTCTACCTGAAG
AAGTTTATCCAGCAGGTCTACCTGGCCATCATGTGGCTGGCCATGAGCTCCACCATGTACAACCCCATCA
TCTACTGCTGCCTCAATGACAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212934 representing NM_015727
 Red=Cloning site Green=Tags(s)

MDNVLPVDSDLSPNISTNTSEPNOQFVQPAWQIVLWAAAYTVIVVTSVVGNNVVMWII LAHKRMRTVTNYF
 LVNLAF AEASMAAFNTVVNFTYAVHNEWYYGLFYCKFHNFFPIAAVFASIYSMTAVAFDRYMAIIHPLQP
 RLSATATKVVICVIWVLLALLAFPOGYSTTETMPSRVVCMIEWPEHPNKIYEKVVHICVTVLIYFLPLL
 VIGYAYTVVIGITLWASEIPGSDSDRYHEQVSAKRKVVKMMI VVCTFAICWLPFHIFLLPYINPDLYLK
 KFIQQVYLAIMWLAMSSMYPNPIIYCCLNDR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015727

ORF Size: 933 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_015727.3](#)

RefSeq Size: 1268 bp

RefSeq ORF: 936 bp

Locus ID: 6869

UniProt ID: [P25103](#)

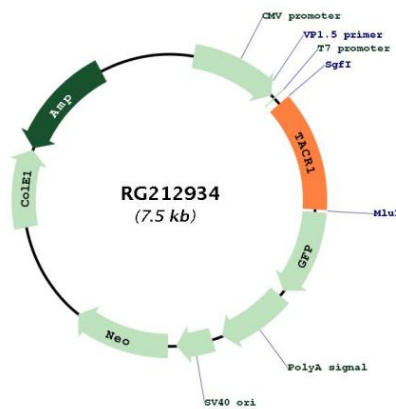
Cytogenetics: 2p12

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 RG212934