

Product datasheet for RC210395

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:	Myc-DDK
Symbol:	Neurokinin 1 Receptor
Synonyms:	NK1R; NKIR; SPR; TAC1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210395 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAACGTCCTCCCGGTGGACTCAGACCTCTCCCAAACATCTCCACTAACACCTCGGAACCAATC
AGTTCGTGCAACCAGCCTGGCAAATTGCCTTTGGGCAGCTGCCTACACGGTCATTGTGGTGACCTCTGT
GGTGGGCAACGTGGTAGTGATGTGGATCATCTTAGCCACAAAAGAATGAGGACAGTGACGAACATTTT
CTGGTGAACCTGGCCTTCGCGGAGGCCTCCATGGCTGCATTCAATACAGTGGTGAACCTCACCTATGCTG
TCCACAACGAATGGTACTACGGCCTGTTCTACTGCAAGTCCACAACCTCTTTCCCATCGCCGCTGTCTT
CGCCAGTATCTACTCCATGACGGCTGTGGCCTTTGATAGGTACATGGCCATCATACATCCCTCCAGCCC
CGGCTGTGAGCCACAGCCACAAAGTGGTCATCTGTGTCATCTGGGTCTGGCTCTCTGCTGGCCTTCC
CCCAGGGCTACTACTCAACCACAGAGACCATGCCAGCAGAGTCGTGTGCATGATCGAATGGCCAGAGCA
TCCGAACAAGATTTATGAGAAAGTGTACCACATCTGTGTGACTGTGCTGATCTACTTCTCCCTGCTG
GTGATTGGCTATGCATACACCGTAGTGGGAATCACACTATGGGCCAGTGAGATCCCCGGGGACTCCTCTG
ACCGCTACCACGAGCAAGTCTCTGCCAAGCGCAAGGTGGTCAAATGATGATTGTCGTGGTGTGCACCT
CGCCATCTGCTGGCTGCCCTTCCACATCTTCTCTCTGCCCTACATCAACCCAGATCTCTACCTGAAG
AAGTTTATCCAGCAGGTCTACCTGGCCATCATGTGGCTGGCCATGAGCTCCACCATGTACAACCCCATCA
TCTACTGCTGCCTCAATGACAGTTCCGTCTGGGCTTCAAGCATGCCTTCCGGTGTGCCCCCTTCATCAG
CGCCGGCGACTATGAGGGGCTGAAATGAAATCCACCCGGTATCTCCAGACCCAGGGCAGTGTGTACAAA
GTCAGCCGCTGGAGACCACCATCTCCACAGTGGTGGGGCCACGAGGAGGAGCCAGAGGACGGCCCCA
AGGCCACACCCTCGTCCCTGGACCTGACCTCCAAGTCTTCCAGAAAGTACTCCAAGACCATGACAGA
GAGCTTCAGTCTCTCTCCAATGTGCTCTCC

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210395 protein sequence
Red=Cloning site Green=Tags(s)

MDNVLVSDLSPNISTNTSEPNOFVQPAWQIVLWAAAYTVIVVTSVVGNVVVMWII LAHKRMRTVTNYF
 LVNLAF AEASMAAFNTVVNFTYAVHNEWYYGLFYCKFHNFPPIAAVFASIYSMTAVAFDRYMAIIHPLQP
 RLSATATKVVICVIWVLLALLAFPOGYSTTETMPSRVVCMIEWPEHPNKIYEKVVHICVTVLIYFLPLL
 VIGYAYTVVGITLWASEIPGDSSDRYHEQVSAKRKVVKMMIVVCTFAICWLPFHIFLLPYINPDLYLK
 KFIQQVYLAIMWLA MSSTMYNPIIYCCLNDRFRLGFKHAFRCPPFISAGDYEGLMKSTRYLQTQGSVYK
 VSRLETTISTVGAHEEPEPDGPKATPSSLDLTSNCSSRSDSKTMTESFSFSSNVLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6374_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001058.4](#)

RefSeq Size: 4795 bp

RefSeq ORF: 1224 bp

Locus ID: 6869

UniProt ID: [P25103](#)

Cytogenetics: 2p12

Domains: 7tm_1

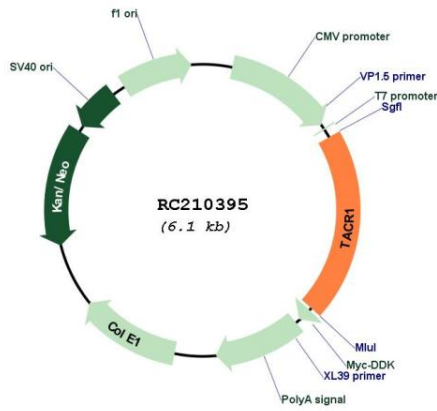
Protein Families: Druggable Genome, GPCR, Transmembrane

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

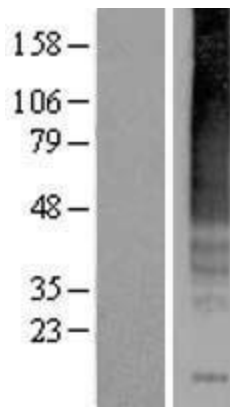
MW: 46.3 kDa

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 RC210395



Western blot validation of overexpression lysate (Cat# [LY420738]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210395 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).