

Product datasheet for **RG214272**

Neurokinin A Receptor (TACR2) (NM_001057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurokinin A Receptor (TACR2) (NM_001057) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neurokinin A Receptor
Synonyms:	NK2R; NKNAR; SKR; TAC2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214272 representing NM_001057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACCTGTGACATTGTGACTGAAGCCAATATCTCATCTGGCCCTGAGAGCAACACCACGGGCATCA
CAGCCTTCTCCATGCCAGCTGGCAACTGGCACTGTGGGCCACAGCCTACCTGGCCCTGGTGCTGGTGCC
CGTGACGGGTAATGCCATCGTCATCTGGATCATCTGGCCATCGGAGGATGCGCACAGTACCAACTAC
TTCATCGTCAATCTGGCGCTGGCTGACCTCTGCATGGCTGCCTTCAATGCCGCCTTCAACTTTGTCTATG
CCAGCCACAACATCTGGTACTTTGGCCGTGCCTTCTGCTACTTCCAGAACCTTCCCCATCACAGCCAT
GTTTGTACAGCATCTACTCCATGACCGCCATTGCTGCCGACAGGTACATGGCCATCGTCCACCCCTTCCAG
CCTCGGCTTTCAGCTCCCAGCACCAAGGCGTTATTGCTGGCATCTGGCTGGTGGCTCTCGCCCTGGCCT
CCCCTCAGTGCTTCTACTCCACCGTCCCATGGACCAGGGTGCCACCAAGTGCCTGGTGGCTGGCCCGA
AGACAGCGGGGCAAGACGCTCCTCCTGTACCACCTCGTGGTGATCGCCCTCATCTACTTCTGCCGCTC
GCGGTGATGTTTGTAGCCTACAGCGTCATCGGCCCTCACGCTCTGGAGGCGCGCAGTGCCCGAACATCAGG
CGCACGGTGCCAACTGCGCCACCTGCAGGCCAAGAAGAAGTTTGTGAAGACCATGGTGTGGTGGTGTCT
GACGTTTGCCATCTGCTGGCTGCCCTACCACCTTACTTCATCTGGGCAGCTTCCAGGAGGACATCTAC
TGCCACAAGTTTCCAGCAAGTCTACCTGGCACTCTTCTGGTTGGCCATGAGCTTACCATGTACAATC
CCATCATCTACTGCTGTCTCAACCACAGGTTTCGCTCTGGATTCCGGCTTGCCTTCCGCTGCTGCCCATG
GGTCACACCCACCAAGGAAGATAAGCTCGAGCTGACTCCACGACCTCCCTCTCCACGAGAGTCAACAGG
TGTCACTAAGGAGACTTTGTTTCATGGCTGGGGACACAGCCCTCCGAGGCTACCAGTGGGGAGGCGG
GGCGTCCCAGGATGGATCAGGGCTATGGTTTGGGTATGGTTGCTTGCCTTCCACCAAACTCATGTTGA
AATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214272 representing NM_001057
 Red=Cloning site Green=Tags(s)

MGTCDIVTEANISSGPESNTTGITAFSMPSWQLALWATAYLALVLVAVTGNAIVIWIILAHRRMRTVTNY
 FIVNLALADLCMAAFNAAFNFVYASHNIWYFGRAFQNFQNLFPITAMFVSIYSMTAIAADRYMAIVHPFQ
 PRLSAPSTKAVIAGIWLVALALASPQCFYSTVTMDQGATKCVVAVPEDSGGKTLLEYHLVVIALIYFLPL
 AVMFVAYSVIGLTLWRRVPEHQAHGANLRHLQAKKKFVKTMVLVVLTFaicwLPYHLYFILGSFQEDIY
 CHKFIQQVYLALFWLAMSSTMYNPIIYCLNHRFRSGFRLAFRCCPWVPTPKEDKLELPTTSLSTRVNR
 CHTKETLFMAGDTAPSEATSGEAGRPDGSGLWFGYGLLAPT KTHVEI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001057

ORF Size: 1194 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_001057.1](#), [NP_001048.1](#)

RefSeq Size: 1197 bp

RefSeq ORF: 1197 bp

Locus ID: 6865

UniProt ID: [P21452](#)

Cytogenetics: 10q22.1

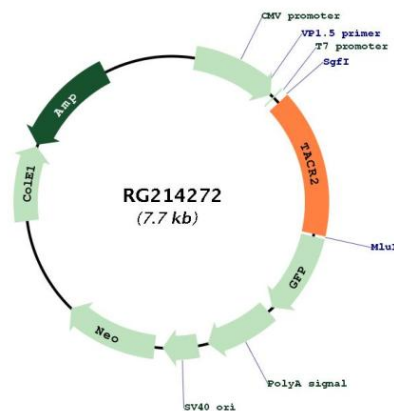
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

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

Gene Summary: This gene belongs to a family of genes that function as receptors for tachykinins. Receptor affinities are specified by variations in the 5'-end of the sequence. The receptors belonging to this family are characterized by interactions with G proteins and 7 hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin neuropeptide substance K, also referred to as neurokinin A. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214272