

Product datasheet for **RG211425**

Neurokinin 3 Receptor NK3 (TACR3) (NM_001059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurokinin 3 Receptor NK3 (TACR3) (NM_001059) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neurokinin 3 Receptor NK3
Synonyms:	HH11; NK-3R; NK3; NK3R; NKR; TAC3R; TAC3RL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211425 representing NM_001059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCACTCTCCAGCAGCAGAAACCTGGATAGACGGGGTGGAGGCGTGGGTGCAGACGCCGTGAACC
 TGACCGCCTCGCTAGCTGCCGGGGCGGCCACGGGGCAGTTGAGACTGGGTGGCTGCAACTGCTGGACCA
 AGCTGGCAACCTCTCCTCCTCCCCTTCCGCGCTGGGACTGCCTGTGGCTTCCCCCGGCCCTCCAGCCC
 TGGGCCAACCTCACCAACCAGTTCGTGCAGCCGCTCTGGCGCGTCGCGCTCTGGTCCCTGGCGTATGGTG
 TGGTGGTGGCAGTGGCAGTTTTGGGAAATCTCATCGTCATCTGGATCATCTGGCCACAAGCGCATGAG
 GACTGTCACCAACTACTTCTTGTGAACCTGGCTTCTCCGACGCTCCATGGCCGCTTCAACACGTTG
 GTCATTTTCATCTACGCGCTTCATAGCGAGTGGTACTTTGGCGCAACTACTGCCGCTTCCAGAATTCT
 TTCTATCACAGCTGTGTTGCCAGCATCTACTCCATGACGGCCATTGCGGTGGACAGGTATATGGCTAT
 TATTGATCCCTTGAACCCAGACTGTCTGCTACAGCAACCAAGATTGTCATTGGAAGTATTTGGATTCTA
 GCATTTCTACTTGCTTCCCTCAGTGTCTTTATCCAAAACCAAAAGTCATGCCAGGCCGACTCTCTGCT
 TTGTGCAATGGCCAGAAGGTCCCAAACAACATTTCACTTACCATATTATCGTCATTATACTGGTGTACTG
 TTTCCATTGATCATCATGGGTATTACATACACCATTGTTGGAATTACTCTCTGGGGAGGAGAAATCCCA
 GGAGATACCTGTGACAAGTATCATGAGCAGCTAAAGGCCAAAAGAAAGGTTGTCAAAATGATGATTATG
 TTGTCATGACATTTGCTATCTGCTGGCTGCCCTATCATATTTACTTCATTCTCACTGCAATCTATCAACA
 ACTAAATAGATGGAAATACATCCAGCAGGTCTACCTGGCTAGCTTTTGGCTGGCAATGAGCTCAACCATG
 TACAATCCCATCATCTACTGCTGTCTGAATAAAAGATTTGAGCTGGCTTCAAGAGAGCATTTCGCTGTT
 GTCCTTTTCATCAAAGTTTCCAGCTATGATGAGCTAGAGCTAAGACCACCAGGTTTCATCCAAACCGGCA
 AAGCAGTATGTACACCGTGACCAGAATGGAGTCCATGACAGTCGTGTTGACCCCAACGATGCAGACACC
 ACCAGGTCAGTCGGAAGAAAAGAGCAACGCCAAGAGACCCAAGTTTCAATGGCTGCTCTCGCAGGAATT
 CCAAATCTGCCTCGCCACTTCAAGTTTCATAAGCTCACCTATACTCTGTGGATGAATATTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211425 representing NM_001059
 Red=Cloning site Green=Tags(s)

MATLPAAETWIDGGGGVADAVNLTASLAAGAATGAVETGWLQLLDQAGNLSSSPSALGLPVASAPSPQ
 WANL TNQFVQPSWRVALWSLAYGVVAVAVLGNL IVIWIILAHKRMRTVTNYFLVNLAFSDASMAAFNTL
 VNF IYALHSEWYFGANYCRFQNFPIITAVFASIYSMTAIAVDRYMAIIDPLKPRLSATATKIVIGSIWIL
 AFLLAFPQCLYSKTKVMPGRTL CFVQWPEGPKQHFTYHIIVIIILVYCFPLIIMGITYTIVGITLWGGEIP
 GDTCDKYHEQLKAKRKVKMMIIVVMTFAICWLPYHIYFILTAIYQQLNRWKYIQQVYLASFWLAMSSTM
 YNP I IYCCLNKRFRAFGRWCPFKIKVSSYDELELKTTRFHPNRQSSMYTVTRMESMTVVFDPNDADT
 TRSSRKKRATPRDPSFNGCSRNSKSASATSSFISSPYTSVDEYS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001059

ORF Size: 1395 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_001059.1](#), [NP_001050.1](#)

RefSeq Size: 1755 bp

RefSeq ORF: 1398 bp

Locus ID: 6870

UniProt ID: [P29371](#)

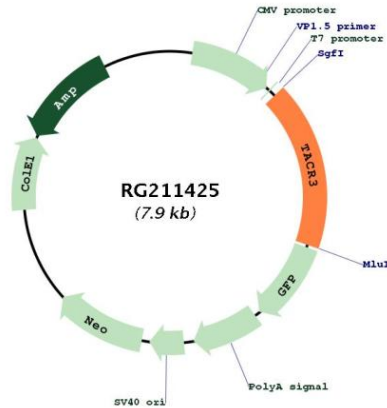
Cytogenetics: 4q24

Protein Families: Druggable Genome, 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 neurokinin 3, also referred to as neurokinin B. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211425