

Product datasheet for **RC211425**

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:	Myc-DDK
Symbol:	Neurokinin 3 Receptor NK3
Synonyms:	HH11; NK-3R; NK3; NK3R; NKR; TAC3R; TAC3RL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211425 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCACTCTCCAGCAGCAGAAACCTGGATAGACGGGGTGGAGGCGTGGGTGCAGACGCCGTGAACC
 TGACCGCCTCGCTAGCTGCCGGGGCGGCCACGGGGCAGTTGAGACTGGGTGGTGCACACTGCTGGACCA
 AGCTGGCAACCTCTCCTCCTCCCCTTCCGCGCTGGGACTGCCTGTGGCTTCCCCCGCGCCCTCCAGCCC
 TGGGCCAACCTCACCAACCAGTTCGTGCAGCCGCTCTGGCGCGTCGCGCTCTGGTCCCTGGCGTATGGTG
 TGGTGGTGGCAGTGGCAGTTTTGGGAAATCTCATCGTCTCTGGATCATCTGGCCACAAGCGCATGAG
 GACTGTCACCAACTACTTCTTGTGAACCTGGCTTCTCCGACGCTCCATGGCCGCTTCAACACGTTG
 GTCATTTTCATCTACGCGCTTCATAGCGAGTGGTACTTTGGCGCAACTACTGCCGCTTCCAGAACTTCT
 TTCCTATCACAGCTGTGTGCCAGCATCTACTCCATGACGGCCATTGCGGTGGACAGGTATATGGCTAT
 TATTGATCCCTTGAACCCAGACTGTCTGCTACAGCAACCAAGATTGTCATTGGAAGTATTGGATTCTA
 GCATTTCTACTTGCTTCCCTCAGTGTCTTTATCCAAAACCAAAGTCATGCCAGGCCGACTCTCTGCT
 TTGTGCAATGGCCAGAAGGTCCCAAACAACATTTCACTTACCATATTATCGTCATTATACTGGTGTACTG
 TTTCCATTGATCATCATGGGTATTACATACACCATTGTTGGAATTACTCTCTGGGGAGGAGAAATCCCA
 GGAGATACCTGTGACAAGTATCATGAGCAGCTAAAGGCCAAAAGAAAGGTTGTCAAAATGATGATTATTG
 TTGTCATGACATTTGCTATCTGCTGGCTGCCCTATCATATTTACTTCATTCTCACTGCAATCTATCAACA
 ACTAAATAGATGGAAATACATCCAGCAGGTCTACCTGGCTAGCTTTTGGCTGGCAATGAGCTCAACCATG
 TACAATCCCATCATCTACTGCTGTCTGAATAAAAGATTCGAGCTGGCTCAAGAGAGCATTTCGCTGGT
 GTCCTTTTCATCAAAGTTCCAGCTATGATGAGCTAGAGCTCAAGACCACAGGTTTCCATCCAAACCGGCA
 AAGCAGTATGTACACCGTGACCAGAATGGAGTCCATGACAGTCGTGTTTGACCCCAACGATGCAGACACC
 ACCAGGTCAGTCGGAAGAAAAGAGCAACGCCAAGAGACCCAAGTTTCAATGGCTGCTCTCGCAGGAATT
 CCAAATCTGCCTCGCCACTTCAAGTTTCATAAGCTCACCTATACTCTGTGGATGAATATTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211425 protein sequence
 Red=Cloning site Green=Tags(s)

MATLPAAETWIDGGGGVADAVNLTASLAAGAATGAVETGWLQLLDQAGNLSSSPSALGLPVASAPSQP
 WANL TNQFVQPSWRVALWSLAYGVVAVAVLGNLIVIIWII LAHKRMRTVTNYFLVNLAFSDASMAAFNTL
 VNFIIYALHSEWYFGANYCRFQNFPIITAVFASIYSMTAIAVDRYMAIIDPLKPRLSATATKIVIGSIWIL
 AFLLAFPQCLYSKTKVMPGRTLFCVQWPEGPKQHFTYHIIIVIIILVYCFPLIIMGITYTIVIGITLWGGEIP
 GDTCDKYHEQLKAKRKVVKMMIIVVMTFAICWLPYHIYFILTAIYQQLNRWKYIQQVYLASFWLAMSSTM
 YNPPIIYCLNKRFRAGFKRAFRWCPFIKVSSYDELELKTTRFHPNRQSSMYTVTRMESMTVVFDPNADT
 TRSSRKKRATPRDPSFNGCSRNSKSASATSSFISSPYTSVDEYS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6562_g05.zip

Restriction Sites:

Sgfl-Mlul

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_001059.3](#)

RefSeq Size: 1753 bp

RefSeq ORF: 1398 bp

Locus ID: 6870

UniProt ID: [P29371](#)

Cytogenetics: 4q24

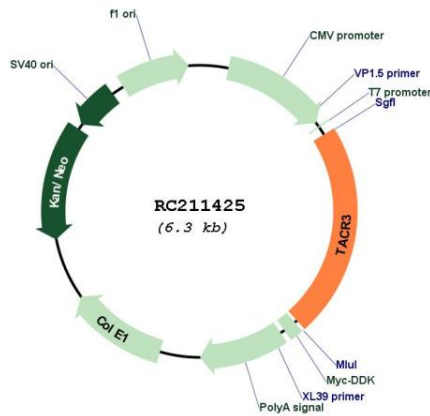
Protein Families: Druggable Genome, Transmembrane

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

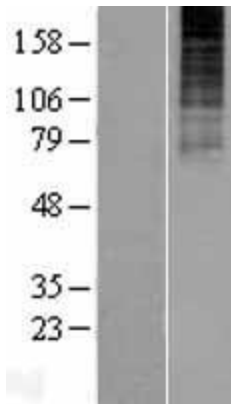
MW: 52.2 kDa

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 RC211425



Western blot validation of overexpression lysate (Cat# [LY420739]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).