

## Specifications:

Gene:	hNK1R
Accession:	NP_001049
Insert size:	1236bp
Concentration:	10µg at 0.2µg/µL

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

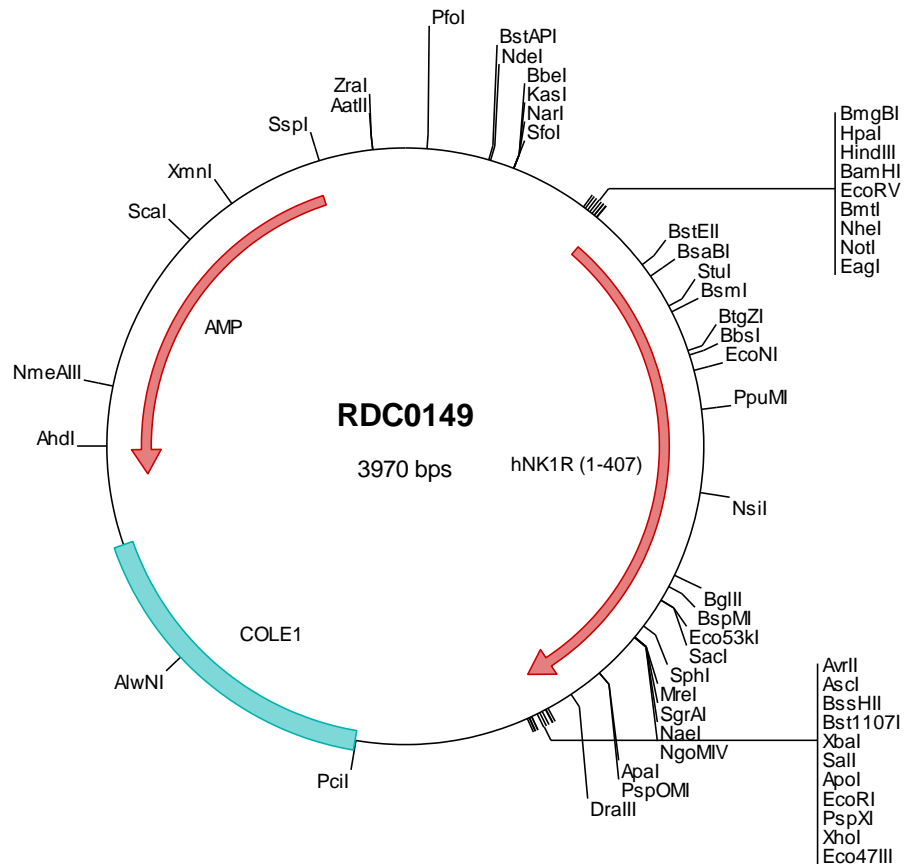
## hNK1R cDNA Plasmid

### TACR1 tachykinin receptor 1 [ *Homo sapiens* ]

**Also known as:** SPR; NK1R; NKIR; TAC1R

#### Summary:

NK1R (Neurokinin-1 receptor), gene name TACR1 (tachykinin receptor-1), is an ~80 kDa 7-transmembrane glycoprotein receptor for the proinflammatory tachykinin neuropeptide, substance P. NK1R is constitutively or inducibly expressed on a wide variety of cells, including monocytes, macrophages, microglia, lymphocytes, neutrophils, mast cells, and neurons. It is involved in the mediation of phosphatidylinositol metabolism of substance P. A ~50 kDa short isoform is the only form expressed in human monocytes and undifferentiated THP-1 cells.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0149 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccggggctg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacag gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taacccactc gaacccaatc agttcgtgca accagcctgg caaattgtcc tttgggcagc tgccctacag gtcattgtgg tgacctctgt ggtgggcaac
501 taacccactc gaacccaatc agttcgtgca accagcctgg caaattgtcc tttgggcagc tgccctacag gtcattgtgg tgacctctgt ggtgggcaac
601 gtggtagtga tgtggatcat cttagcccac aaaagaatga ggacagtgc gaactatctt ctggtgaacc tggccttcgc ggaggcctcc atggtgcat
701 tcaatacagt ggtgaacttc acctatgctg tccacaacga atggtactac ggctgttct actgcaagt ccacaacttc tttccatcg ccgctgtctt
801 cgccagatc tactocatag cggctgtggc ctttgatagg tacatggcca tcatacatcc cctccagccc oggctgtcag ccacagccac caaagtgtc
901 atctgtgtoa tctgggtcct ggtctctctg ctggccttcc cccagggcta ctaactcaacc acagagacca tgcccagcag agtctgtgca atgatcgaat
1001 ggccagagca tccgaaacaag atttatgaga aagtgtacca catctgtgtg actgtgtgta tetacttctc cccctctctg gtgattggct atgcatacac
1101 cgtagtggga atcaacatc atccagctg gatccccggg gactcctctg accgctacca cgagcaagtc tctgccaagc gcaaggtggt caaaatgatg
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1401 gcataccttc cggctgtgcc ccttcaatcag cgccggcgac tatgaggggc tggaaaatgaa atccaccggc tatctccaga cccagggcag tgtgtacaaa
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1701 caccgggga attcctcgag cgtcgtctc tagcttggcg taatcatggt catagctgtt tctgtgtgta aattgttatc cgtccacaat tccacacaac
1801 atacgagccg gaagcataaa gtgtaaagcc tggggtgccc aatgagttag ctaactcaca ttaattgcgt tgcgctcact gcccgcttcc cagtccggaa
1901 acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc ggggagaggg ggtttgcgta ttgggcgctc tccgcttcc tcgctcactg actcgtcgg
2001 ctcggtcgtt ccgctgccc gagcggatc agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaagaa catgtgagca
2101 aaaggccagc aaaaggccag gaaccgtaaa aaggccgctg tgcctggcgt ttccatagg ctcccctccc ctgacgagca tcacaaaaat cgacgctcaa
2201 gtcagaggtg gcgaaacccc acaggactat aaagatacca ggcgtttccc cctggaagct cctcctgtg ctctcctgtt ccgacctgc cgcttaccgg
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2401 tgtgtgcaac aacccccctg tcagcccgac cgtcgcctc tatccggtaa ctatctctt gactccaacc cggtaagaca cgacttatcg ccaactggcag
2501 cagccactgg taacaggatt agcagagcga ggtatgtagg cgggtctaca gacttcttga agtgggtggc taactacggc tacactagaa ggacagtatt
2601 tggatctgc gctctgctga agccagttac cttcgaaaaa agagttggtg gctcttgatc cggcaaaaa accaccgctg gtacgggtgg tttttttgtt
2701 tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag aagatcctt gatctttct acggggtctg acgctcagtg gaacgaaaac tcaactgaa
2801 ggattttgt catgagatta tcaaaaagga tcttacccta gatcctttaa aatataaaat gaagtttaa atcaatctaa agtatatag agtaaaactg
2901 gtctgacagt taccatgct taatcagtg ggcacatc tcagcgatct gcttatttcg ttcaccata gttgctgac tccccgctg gtatataact
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3201 tttgcgaac gttgttgcca ttgctacagg catcgtggtg tcacgctcgt cgtttggtat ggcttcatc agctccggt ccaacagatc aaggcgagtt
3301 acatgatccc coactgtgtg caaaaaagcg gttagctcct tcggtctctc gatcgtgtgc agaagtaagt tggccgcat gttatcact atggttatg
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3601 ctctcaagga tcttaccgct gttgagatcc agttcgatg aacccactcg tgcaccaaac tgatcttcag catcttttac tttcaccagc gtttctgggt
3701 gagcaaaaaa aggaagcga aatgcccga aaaagggaaat aaggggcaca cggaaatggt gaatactcat actcttctt tttcaatatt atgaaagcat
3801 ttatcagggg tattgtctca tgagcggata catattgaa tgtatttaga aaaaaaaca aataggggtt ccgcgcaat tccccgaaa agtgccacct
3901 gacgtctaag aaaccattat tatcatgaca ttaactata aaaaataggc tatcacgag cctttctgct

> RDC0149 Translated Insert Sequence

1 mdnvlpvdsd lspnistnts epnqfvqpw qivlwaaayt vivvtsvvn vvmwiilah krmrtvtnyf lvnlafaeas maafntvvnf tyavhnewy
101 glfyckfhnf fpiaavfasi ysmtavafdr ymaihplqp rlsatatkvv icviwvlall lafpqgyyst tetmpsrvc miewpehpnk iyekvyhicv
201 tvliyflplll vigyaytvvg itlwaseipg dssdryheqv sakrvvkm m invvctfaic wlpfhifll pyinpdylyk kfiiqqvylai mwlamsstmy
301 npiiyclnd rfrlrgfkhaf rccpfasagd yeglemkstr ylqtqgsvyk vsrlettist vvgahheepe dgpkatpssl dltsncsrsr sskmtmesfs
401 fssnvl