

Product datasheet for RC218624

NPFFR2 (NM_053036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPFFR2 (NM_053036) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPFFR2
Synonyms:	GPR74; HLWAR77; NPFF2; NPGPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218624 representing NM_053036 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGAGAAATGGGACACAACTCTTCAGAAAAGTGGCATCCCATCTGGAATGTCAATGACACAAAGC
ATCATCTGTACTCAGATATTAATATTACCTATGTGAAGTACTATCTTCACCAGCCTCAAGTGGCAGCAAT
CTTCATTATTTCTACTTTCTGATCTTCTTTTGTGCATGATGGGAAATACTGTGGTTTGTCTTTATTGTA
ATGAGGAACAAACATATGCACACAGTCACTAATCTCTTCATCTTAAACCTGGCCATAAGTGATTTACTAG
TTGGCATATTCTGCATGCCTATAACACTGCTGGACAATATTATAGCAGGATGGCCATTTGAAACACGAT
GTGCAAGATCAGTGGATTGGTCCAGGGAATATCTGTCGACGCTTCAAGTCTTTACGTTAGTTGCAATTGCT
GTAGATAGTTCCAGTGTGTGGTCTACCCTTTTAAACCAAGCTCACTATCAAGACAGCGTTTGTCTATTA
TTATGATCATCTGGTCCCTAGCCATCACCATTATGTCTCCATCTGCAGTAATGTTACATGTGCAAGAAGA
AAAATATTACCGAGTGAGACTCACTCCAGAATAAAACCAAGTCCAGTCTACTGGTGGCCGGAAGACTGG
CCAAATCAGGAAATGAGGAAGATCTACACCACTGTGCTGTTTGGCAACATCTACCTGGCTCCCCTCTCC
TCATTGTCATCATGTATGGAAGGATTGGAATTTCACTCTTCAGGGCTGCAGTTCCTCACACAGGCAGGAA
GAACCAGGAGCAGTGGCACGTGGTGTCCAGGAAGAAGCAGAAGATCATTAAAGATGCTCCTGATTGTGCC
CTGCTTTTATTCTCTCATGGCTGCCCTGTGGACTCTAATGATGCTCTCAGACTACGCTGACCTTTCTC
CAAATGAACTGCAGATCATCAACATCTACATCTACCTTTTGCACACTGGCTGGCATTCCGCAACAGCAG
TGCAATCCCATCATTTATGGTTTCTTCAACGAGAATTTCCGCCGTGGTTTCCAAGAAGCTTTCCAGCTC
CAGCTCTGCCAAAAAGAGCAAAGCCTATGGAAGCTTATGCCCTAAAAGCTAAAAGCCATGTGCTCATAA
ACACATCTAATCAGCTTGTCCAGGAATCTACATTTCAAACCTCATGGGAAACCTTGCTTTATAGGAA
AAGTGCTGAAAAACCCCAACAGGAATTAGTGATGGAAGAATTAAGAAACTACTAACAGCAGTGAGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218624 representing NM_053036
 Red=Cloning site Green=Tags(s)

MNEKWDTNSSENWHPIWNVNDTKHHLYS DINITIYVNYLHQPVAAIFIISYFLIFFLCMMGNTVVCFIV
 MRNKHMTVTNLFILNLAISDLLVGIFCMPITLLDNIAGWPFNGMTMCKISGLVQGISVAASVFTLVAIA
 VDRFQCVVYFPKPKLTIKTA FVIIMIIVLAIITIMSPSAVMLHVQEEKYRVR LNSQKTS PVYWCREDW
 PNQEMRKIYTTVLFANIYLAPLSLIVIMYGRIGISLFRAAVPHTGRKNQE QWHVVSRRKKQKIIKMLLIVA
 LLFILSWLPLWTLMMLS DYADLSPNELQIINIYIY PFAHWLAFGNSSVNP IYGFNFENFRRGFQEAFL
 QLCQKRAKPM EAYALKAKSHVLINTSNQLVQESTFQNP HGETLLYRKS AEKPQQELVMEELKETTNSSEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053036

ORF Size: 1260 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_053036.2](#), [NP_444264.1](#)

RefSeq Size: 1941 bp

RefSeq ORF: 1263 bp

Locus ID: 10886

UniProt ID: [Q9Y5X5](#)

Cytogenetics: 4q13.3

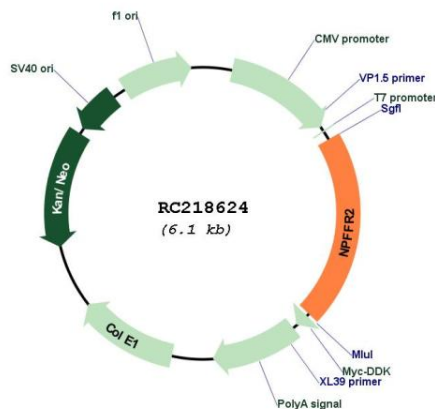
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 48.7 kDa

Gene Summary: This gene encodes a member of a subfamily of G-protein-coupled neuropeptide receptors. This protein is activated by the neuropeptides A-18-amide (NPAF) and F-8-amide (NPFF) and may function in pain modulation and regulation of the opioid system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RC218624