

Product datasheet for **RG218229**

NPFFR2 (NM_004885) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPFFR2 (NM_004885) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPFFR2
Synonyms:	GPR74; HLWAR77; NPFF2; NPGPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218229 representing NM_004885
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATAGCTTCTTCGGAACCCAGCGGCCAGCTGGTGCCTCCTGGAAAGTGACGTCTCATCTGCACCGG
 ACAAGGAGGGCGGGAGGGAGCGCAGAGCACTCAGCGTCCAGCAGCGCGGGGCCAGCCTGGAGCGGAAG
 CCTGGAGTGGAGCAGGCAGTCCGCGGGGACAGACGTCGGCTGGGATTGAGCCGGCAGACTGCGAAAAGT
 AGCTGGAGCCGGAGCAGGGACAGAACCTGTTGCTGCAGACGGGCTTGGTGGATTCTGTTCTGCCGCCG
 ACAGGGCTCGCCGGGAGAGGTTTCATCATGAATGAGAAAATGGGACACAACTCTTCAGAAAATGGCATCC
 CATCTGGAATGTCAATGACACAAAGCATCATCTGTACTCAGATATTAATATTACCTATGTGAACTACTAT
 CTTACCAGCCTCAAGTGGCAGCAATCTCATTATTTCTACTTTCTGATCTTCTTTTGTGCATGATGG
 GAAATACTGTGGTTTGTCTTATTGTAATGAGGAACAAACATATGCACACAGTCACAACTCTTTCATCTT
 AACCTGGCCATAAGTGATTTACTAGTTGGCATATTCTGCATGCCTATAAAGTCTGGACAATATTATA
 GCAGGATGGCCATTTGGAACACGATGTGCAAGATCAGTGGATTGGTCCAGGGAATATCTGTCCGAGCTT
 CAGTCTTTACGTTAGTTGCAATTGCTGTAGATAGGTTCCAGTGTGTGGTCTACCCTTTTAAACCAAGCT
 CACTATCAAGACAGCGTTTGTCAATTATTATGATCATCTGGGTCCAGCCATCACCATTATGTCTCCATCT
 GCAGTAATGTTACATGTGCAAGAAGAAAAATATTACCGAGTGAGACTCACTCCAGAAATAAACCAAGTC
 CAGTCTACTGGTCCCGGGAAGACTGGCCAAATCAGGAAATGAGGAAGATCTACCCACTGTGCTGTTTGC
 CAACATCTACCTGGTCCCCTCTCCCTCATTGTATCATGTATGGAAGGATTGGAATTTCACTCTTCAGG
 GCTGCAGTTCCTCACACAGGCAGGAAGAACCAGGAGCAGTGGCACGTGGTGTCCAGGAAAAAGCAGAAGA
 TCATTAAGATGCTCCTGATTGTGGCCCTGCTTTTATTCTCTCATGGCTGCCCTGTGGACTCAATGAT
 GCTCTCAGACTACGCTGACCTTTCTCAAATGAACTGCAGATCATCAACATCTACATCTACCCTTTTGCA
 CACTGGCTGGCATTTCGGCAACAGCAGTGTCAATCCCATCATTTATGGTTTCTTCAACGAGAAATTCGCC
 GTGGTTTCCAAGAAGCTTTCAGCTCCAGCTCTGCCAAAAAGAGCAAAGCCTATGGAAGCTTATACCTT
 AAAAGCTAAAAGCCATGTGCTCATAAACACATCTAATCAGCTTGTCCAGGAATCTACATTTCAAACCTT
 CATGGGAAACCTTGCTTTATAGGAAAAGTGTGAAAAACCCCAACAGGAATTAGTGATGGAAGAATTAA
 AAGAACTACTAACAGCAGTGAGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218229 representing NM_004885
 Red=Cloning site Green=Tags(s)

MNSFFGTPAASWCLLESVDVSSAPDKEAGRERRALS VQQRGGPAWSGSLEWSRQSAGDRRRLGLSRQTAKS
 SWSRSRDRTCRRRAWILVPAADRARRERFIMNEKWDTNSSSENWHPiWNVNDTKHHLYS DINITIVVNY
 LHQPQVA AIFII SYFLIFFLCMMGNTVVC FIVMRNKHMTVTNLFILNLAI SDLLVGFICMPITLLDNII
 AGWPFNGT MCKISGLVQGISVAASVFTLVAI A VDRFQCVVYFPKPLTIKTA FVIIMI IWVLAITMSPS
 AVMLHVQEEKYRVR LNSQNK TSPVYWCREDWPNQEMRKIYTTVLFANIYLAPLSLIVIMYGRIGISLFR
 AAVPHTGRKNQE QWHVSRKKQKI I KMLL I VALLFILSWLPLWTL MMLSDYADLSPNELQIINIYIYPFA
 HWLAFGNSSVNP I IYGFNENFRRGFQEAFLQLCQKRAKPM EAYTLKAKSHVLINTSNQLVQESTFQNP
 HGETLLYRKS A EKPQQLVMEELKETTNSSEI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004885

ORF Size: 1566 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_004885.1](#), [NP_004876.1](#)

RefSeq Size: 1936 bp

RefSeq ORF: 1263 bp

Locus ID: 10886

UniProt ID: [Q9Y5X5](#)

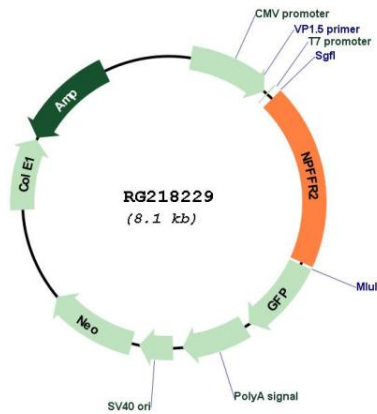
Cytogenetics: 4q13.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG218229