

Product datasheet for **RR209512**

Npffr2 (NM_023980) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npffr2 (NM_023980) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npffr2
Synonyms:	Gpr74; Npff2; Npgpr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR209512 representing NM_023980
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAGAGATGGGACTCAAACCTCTTCAGGAAGCTGGGATCACATCTGGAGTGGCAATGACACACAGC
 ATCCTTGGTATTAGATATCAACATCACATACATGAACTACTATCTCCACCAGCCCCACGTGACAGCTGT
 CTTCAATTAGCTCCTACTTCTGATCTTCTTCTGTGCATGGTGGGAAACACTGTCGTTTGTCTTTGTGTA
 ATAAGGAATAGGTACATGCACACGGTACTAATTTCTTCATCTTCAACCTCGCAATAAGTGACTTACTGG
 TTGGAATATTCTGCATGCCTATCACATTGCTGGACAACATCATAGCAGGATGGCCGTTTGGGAAGCAGCAT
 GTGCAAGATCAGCGGGCTGGTGAAGGGATATCGGTTGCCGTTCTGTCTTACCTTGGTTGCCATAGCC
 GTAGACAGATCCGGTGTGTGGTCTACCCCTTTAAGCCCAAGCTCACTGTCAAGACAGCCTTTGTCATGA
 TCGTGATCATCTGGGCTGGCCATCACCATTATGACCCCATCTGCAATCATGTTACATGTACAGGAAGA
 AAAATACTACCGTGTGAGGCTCAGTCCCACAATAAAACCAGCACAGTCTACTGGTGTGGGAGGATTGG
 CCAAACAGGAAATGAGGAGGATCTACACCACCGTCTCTTTGCCACTATCTACCTGGCTCCACTCTCCC
 TCATTGTTATCATGTATGCAAGGATTGGGGCTTCCCTCTTCAAGACCTCAGCACACAGCAGGTAAGCA
 GCGCCTGGAGCAGTGGCATGTATCCAAGAAGAAACAGAAGGTCATCAAGATGCTGCTGACTGTGGCCCTC
 CTTTTATCCTTTCTGGCTTCCCTGTGGACTCTGATGATGCTCTCAGACTATGCTGACCTGTCACCTA
 ACAAACTACGTGTCAATATTTATGTCTACCCTTTGCCACTGGCTCGCCTTCTGCAATAGCAGTGT
 CAACCCATCATTATGGTTTCTTAAATGAAAATTTTCGAGTGGTTTCCAAGATGCTTCCAGTTCTGC
 CAAAAGAAAGTCAAACCCAGGAAGCCTATGGCCTAAGAGCTAAACGCAACCTGGACATAAACACATCTG
 GCCTGTTGGTCCATGAACCTGCATCTCAAACCCAAAGTGGGAAAACCTGGGATGTAGAAAAAGTGCAGA
 CAATCCACACAGGAATCCTTGATGGAGGAAACGGGAGAAGCTACCAACAGTACTGAGACTCAATCCAC
 ACAGGAATCCTTGATGGAGGAAACGGGAGAAGCTACCAACAGTACTGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209512 representing NM_023980
 Red=Cloning site Green=Tags(s)

MGKRWDSNSSGSWDHIWSGNDTQHPWYS DINITYMNYLHQPHVTAVFISSYFLIFFLCMVGNTVVCV
 IRNRYMHTVTNFFIFNLAISDLLVGFICMPITLLDNIAGWPF GSSMCKISGLVQGISVAASVFTLVAIA
 VDRFRCVVYFPKPKLTVKTA FVMIVIIWGLAITIMTPSAIMLHVQEEKYRVRLLSSHNTSTVYWCREDW
 PNQEMRRIYTTVLFATIYLAPLSLIVIMYARIGASLFKTS AHSTGKQRLEQWHVSKKKQKVIKMLLTVAL
 LFILSWLPLWTLMLSDYADLSPNKL RVINIYVYPF AHWLAFCNSSVNPIIYGFNFENFRSGFQDAFQFC
 QKKVKPQEAYGLRAKRNLDINTSGLLVHEPASQNP SGENL GCRKSADNPTQESLMEETGEATNSTETQSH
 TGILDGGNGRSYQY*D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_023980

ORF Size: 1251 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).

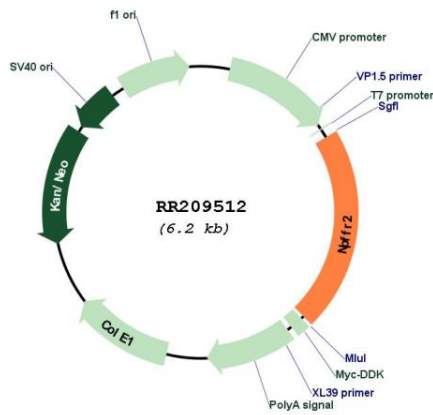
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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 Size: 1254 bp

RefSeq ORF: 1254 bp
 Locus ID: 78964
 UniProt ID: [Q9EQD2](#)
 Cytogenetics: 14p22
 MW: 47.7 kDa

Gene Summary: a receptor for neuropeptide FF (NPFF); may be involved in pain modulation and opiate tolerance [RGD, Feb 2006]

Product images:



Circular map for RR209512