

Product datasheet for **MR220938**

Npffr2 (NM_133192) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Npffr2 (NM_133192) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Npffr2
Synonyms: Gpr74; HG31; NPFF2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220938 representing NM_133192
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGAGAAATGGGACTCAAACCTCTTCAGAAAGCTGGAATCACATCTGGAGTGCCAATGATACACAGC
ATCACTGGTATTCAGATATCAACATTACCTATGTGAACACTATCTCCACCAGCCCCAAGTGGCAGCTGT
CTTCATCAGCTCCTACCTCCTGATCTTTGTCTTGTGCATGGTGGGAAATACTGTCGTTTGTCTTATTGTG
ATAAGGAATAGACACATGCACACAGTCACTAATTTCTTCATCTTAAACCTTGCCATAAGTGATTTACTGG
TTGGAATATTCTGTATGCCTATCACATTGCTGGACAACATCATAGCAGGATGGCCATTCCGAAGCAGCAT
GTGCAAGATCAGTGGGCTGGTGAAGGGATATCAGTTGCGGCTTCCGTCTTCACCTTGGTTGCAATAGT
GTGGACAGATTCCGCTGTGTGGTCTACCCCTTTAAGCCAAAGCTCACTGTCAAGACAGCCTTTGTACCGA
TTGTGATCATCTGGGCTGGCCATCGCCATTATGACTCCATCTGCAATAATGTTACATGTACAAGAAGA
AAAATACTACCGTGTGAGACTCAGCTCCCAATAAAAACCAGCACAGTCTACTGGTGTGGGAGGACTGG
CCAAGACACGAAATGAGGAGGATCTATACCACGGTGTATTTGCCACCATCTATCTTGTCTCTCTCAC
TCATTGTTATCATGTATGCAAGGATTGGGGCTTCCCTCTCAAGACGGCAGCACACTGCACAGGCAAGCA
GCGTCCAGTGCAGTGGCATGTATCCAAGAAGAAACAGAAGGTCAAGATGCTGCTGACTGTGGCCCTC
CTTTTCATCCTTTCTGGCTTCCCTGTGGACCCTGATGATGCTCTCAGACTACTGACCTGTCTCCTA
ACAAACTGCGTATCATCAACATCTACATCTACCCTTTCCGCCACTGGCTCGCCTTCTGCAACAGCAGTGT
CAACCCTATTATTTATGATTCTTTAATGAAAATTTTCGCAATGTTTTCAAGATGCTTTCCAGATCTGC
CAAAAGAAAGCCAAAGCCCAAGGAAAGCCTATTCCCTGAGAGCGAAACGCAACATAGTCATAAACACATCGG
GCCTGCTGGTGCAGGAACCGGTGTCTCAAACCCAGGTGGGAAAATTTGGGATGTGAAAAAGTGCAGA
CAATCCCACACAGGAATCCTTGATAGAGGAAATGGGAGAAGCTACTAACAGTACTGTGGCT

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220938 representing NM_133192
Red=Cloning site Green=Tags(s)

MSEKWDSSNESWNHIWSDGNDTQHHWYSDINITYVNYLHQPVAAVFISSYLLIFVLCMVGNTVVCFIV
 IRNRHMHTVTNFFILNLAISDLLVGIFCMPITLLDNIAGWPFGSSMCKISGLVQGISVAASVFTLVAIA
 VDRFRCVVYFPKPKLTKTAFVTIVIIWGLAIAIMTPSAIMLHVQEEKYRVRLLSSHNTSTVYWCREDW
 PRHEMRRYYTTVLFATIYLAPLSLIVIMYARIGASLFKTAAHCTGKQRPVQWHVSKKKQKVIKMLLTVAL
 LFILSWLPLWTLMLSDYDLSPNKLRINIYIYPFAHWLAFCNSSVNPPIYGFNFNFRNGFQDAFQIC
 QKKAKPQEAYSLRAKRNIIVINTSGLLVQEPVSNPGGENLGCCKSADNPTQESLIEEMGEATNSTVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_133192

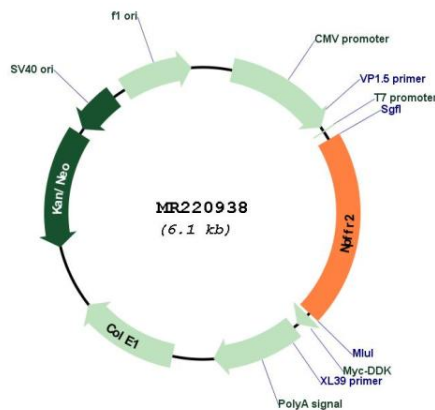
ORF Size: 1251 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_133192.3</u> , <u>NP_573455.2</u>
RefSeq Size:	1643 bp
RefSeq ORF:	1254 bp
Locus ID:	104443
UniProt ID:	<u>Q924H0</u>
Cytogenetics:	5 E1
MW:	47.9 kDa
Gene Summary:	Receptor for NPAF (A-18-F-amide) and NPFF (F-8-F-amide) neuropeptides, also known as morphine-modulating peptides. Can also be activated by a variety of naturally occurring or synthetic FMRF-amide like ligands. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220938