

Product datasheet for **RC212343**

MRGPRF (NM_001098515) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MRGPRF
Synonyms:	GPRI40; GPRI68; MRGF; RTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC212343 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGAAGTCTCTGGGAGGCCCATCCCGCAACAGGAACAAGATGTGCCCTGGCCTGAGCGAGG
CCCCGGAATCTACAGCCGGGGCTTCTGACCATCGAGCAGATCGCGATGCTGCCGCCTCCGGCCGTCAT
GAACTACATCTTCTGCTCCTTGCTGTGGCTGGTGGCAACGGGCTGGTCTCTGGTTTTTCGGC
TTCTCCATCAAGAGGAACCCCTTCTCCATCTACTTCTGCACCTGGCCAGCGCCGATGTGGCTACCTCT
TCAGCAAGGCGGTGTTCTCCATCCTGAACACGGGGGGCTTCTGGGCACGTTTGCCGACTACATCCGCAG
CGTGTGCCGGTCTGGGCTCTGCATGTTCTTACCAGCGTGAGCCTCTGCCGGCCGTACGCGCCGAG
CGCTGCGCCTCGGTCACTTCCCCGCCTGGTACTGGCGCCGGCGGCCAAGCGCCTGTGGCCGTGGTGT
GCGCCCTGCTGGGTCTGTCCCTCTGGTCACTGCCTGCACAACCTACTTCTGCGTGTCTGGGCCG
CGGGGCCCCCGGCGCGCCTGCAGGCACATGGACATCTTCTGGGCATCCTCCTGTTCTGCTCTGCTGC
CCGCTCATGGTGTGCCCTGCCTGGCCCTCATCTGCACGTGAGTGCCGGGCCGACGGCGCCAGCGCT
CTGCCAAGCTCAACCACGTCACTTGGCCATGGTCTCCGTCTTCTGGTGTCTCCATCTACTTAGGGAT
CGACTGGTTCCTCTTGGGTCTTCCAGATCCCGGCCCTTCCCCGAGTACGTCACTGACCTGTGCATC
TGCATCAACAGCAGCGCCAAGCCCATCGTCTACTTCTGGCCGGGAGGGACAAGTCGCAAGCGCTGTGGG
AGCCGCTCAGGGTGGTCTTCCAGCGGGCCCTGCGGGACGGCGCTGAGCTGGGGAGGCCGGGGCAGCAC
GCCAACACAGTCACCATGGAGATGCAGTGTCCCCGGGGAACGCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC212343 protein sequence
Red=Cloning site Green=Tags(s)

MAGNCSWEAHPGNRNKMCPGLSEAPELYSRGFLTIEQIAMLPPAVMNYIFLLCLCGLVGNGLVLWFFG
FSIKRNPFSIYFLHLASADVGYLFSKAVFSILNTGGFLGTFADYIRSVCRVLGLCMFLTGVSLPAVSAE
RCASVIFPAWYRRRPKRLSAVVCALLWVLSLLVTCLHNYFCVFLGRGAPGAACRMDIFLGILLFLLCC
PLMVLPCALILHVECRARRRQRSAKLNHVILAMVSVFLVSSIYLGIDWFLFWVFQIPAPFPEYVTDLCI
CINSSAKPIVYFLAGRDKSQRLWEPLRVVFQRALRDGAELGEAGGSTPNTVTMEMQCPPGNAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

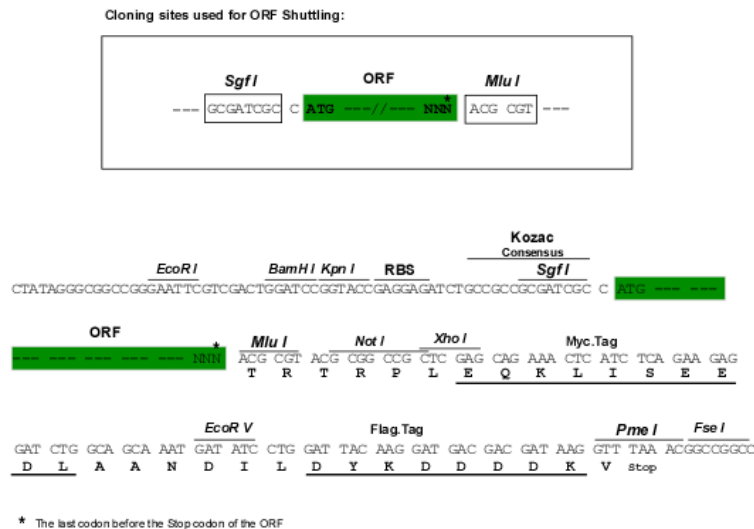
Chromatograms:

https://cdn.origene.com/chromatograms/mk6010_h04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001098515

ORF Size:

1029 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001098515.1](#), [NP_001091985.1](#)

RefSeq Size: 2319 bp

RefSeq ORF: 1032 bp

Locus ID: 116535

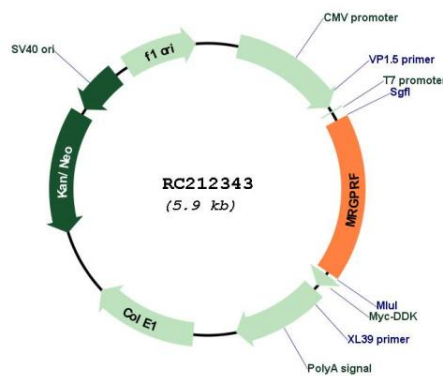
UniProt ID: [Q96AM1](#)

Cytogenetics: 11q13.3

MW: 38.2 kDa

Gene Summary: Orphan receptor. May bind to a neuropeptide and may regulate nociceptor function and/or development, including the sensation or modulation of pain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC212343

Western validation with an anti-DDK antibody
* L: Control HEK293 lysate R: Over-expression lysate

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