

Product datasheet for **RR209455**

Mrgprf (NM_153722) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Mrgprf
Synonyms:	MrgF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RR209455 representing NM_153722
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGAACTGCTCATGGGAAGCTCACTCCACCAACCAGAACAAGATGTGTCTGGTATGAGCGAGG
CTCTGGAACTCTACAGCAGAGGCTTCTGACCATTGAACAGATTGCCACACTCCCTCCACCAGCCGTCAC
AACTACATCTTCTGCTGCTTTGCCTGTGTGGCTGGTGGAAACGGGCTGGTCTCTGGTTTTTTGGC
TTCTCCATCAAGAGGACCCCTTCTCCATCTACTTCTGCACCTGGCCAGCGCTGATGGGATATACCTCT
TCAGCAAGGCCGTGATTGCTCTCCTGAACATGGGGACCTTCTGGGCTCCTTCCCGACTACGTTTCAAG
AGTGTCCCGGATCGTGGGTCTCTGCACATTCTTCGCCGGTGTGAGCCTCCTTCGGCCATTAGCATCGAA
CGCTGTGTGTCGTCATCTTTCCCATGTGGTACTGGCGTCGGAGGCCAAGCGCCTGTCCGCTGGGGTCT
GTGCCCTTGCTGGCTGCTGCTTCTGCTCACCAGTATCCACAATACTTCTGTATGTTCTGGGCCA
TGAGGCCTCTGGAACAGCCTGCCTCAACATGGACATCTCCCTGGGCATCTTGCTTTTCTTCTTCTGCTC
CCTCATGTGTAATCCCTGCCTGGCACTCATCTTGATGTAGAGTGCCGAGCCCGGCCGCCAACGCT
CTGCCAAGCTCAATCACGTGGTCTGGCCATCGTCTGTCTTCTCGTGTATCCATTTATTTGGGGAT
CGACTGGTTCTCTTCTGGGTCTTCCAGATCCCGGCCCTTCCCGGAGTACGTCACTGACTTATGTATC
TGCATCAACAGCAGTGCCAAGCCATTGTCTACTTCTGGCTGGGAGAGACAAGTCCAGCGCCTGTGGG
AACCTCTCAGGGTGGTCTTCCAGCGGGCCCTCCGAGATGGTGCCGAGCCAGGGGACGCTGCTAGCAGCAC
ACCAACACGGTCACCATGGAGATGCAGTGCCCTCTGGGAACGCATCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RR209455 representing NM_153722

Red=Cloning site Green=Tags(s)

MAGNCSWEAHSTNQNMCPGMSEALELYSRGLTIEQIATLPPAVTNYIFLLCLCGLVGNGLVLWFFG
FSIKRTPFSIYFLHLASADGIYLFKAVIALLMGTFLGSFPDYVRRVSRIVGLCTFFAGVSLLPAISIE
RCVSVIFPMWYWRRPKRLSAGVCALLWLLSFLVTSIHNYFCMFLGHEASGTACLNMDISLGILLFFLFC
PLMVLPCALILHVECRARRRQRSAKLNHVLAIVSVFLVSSIYLGIDWFLFWFQIPAPFPEYVTDLCI
CINSSAKPIYVFLAGRDKSQRLWEPLRVVFQALRDGAEPGDAASSTPNTVTMEMQCPSGNAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3804_g05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_153722

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_153722.2, NP_714944.1](#)

RefSeq Size: 2071 bp

RefSeq ORF: 1032 bp

Locus ID: 266762

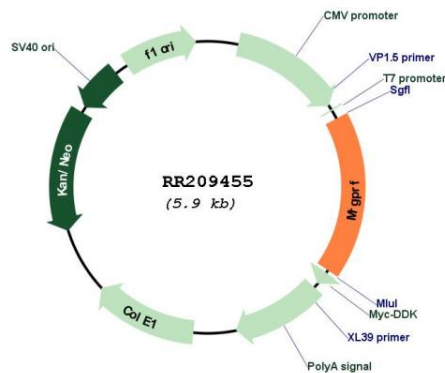
UniProt ID: [P23749](#)

Cytogenetics: 1q42

MW: 38.4 kDa

Gene Summary: seven transmembrane domain G-protein coupled receptor; most often found in sensory neurons [RGD, Feb 2006]

Product images:



Circular map for RR209455