

## Product datasheet for MR200640

### Qrfp (NM\_183424) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids

**Tag:** Myc-DDK

**Symbol:** Qrfp

**Synonyms:** P51; P518; QR

**Mammalian Cell:** Neomycin

**Selection:**

**Vector:** pCMV6-Entry (PS100001)

**E. coli Selection:** Kanamycin (25 ug/mL)

**ORF Nucleotide Sequence:** >MR200640 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATCGACTCACTATAAGGCGGCCGGAATTCTCGACTGGATCCGGTACCGAGGAGATCTGCC  
**GGCGCGATCGCC**

ATGAGGGGCTTCGGCTTTGCTTCCCTACTTCTCCCTGAGTCCCTGCTTCCCTGCTGGACAGAA  
 GGGGACCCACAGACATCGGTGACATCGGAGCCAGGATGAGCTGGGCCAGCTGGCTGAGGGACACCCCC  
 CAACTCGGTTCAAATCCACAGCCACAGGCCCTGCTTGTTGCAAGGAGCAGCAGGCCCTCCACAGG  
 GAGCACACCGGCTCCGTCTAGGGAGGAAGACGGTAGCAGTGAGGCCAGGGTCTGCCAGGGACT  
 CGGAGAAGGCCAGGGCCCTCTGGGACTCTGGCAGAGGAGCTGGCAGCTACAGCCGGAGGAAGGGAGG  
 CTTCAGCTTCCGCTTGGACGG

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGTTAA

**Protein Sequence:** >MR200640 protein sequence  
 Red=Cloning site Green=Tags(s)

MRGFRPLLSLLPLSACFPILLDRRGPTIDIGIGARMSWAQLAEGHPPNSVNPQPQALLVVAKEQQASHR  
 EHTGFRRLGRQDGSSSEAAGFLPADSEKASGPLTLAEELSSYSRRKGGSFRFGR

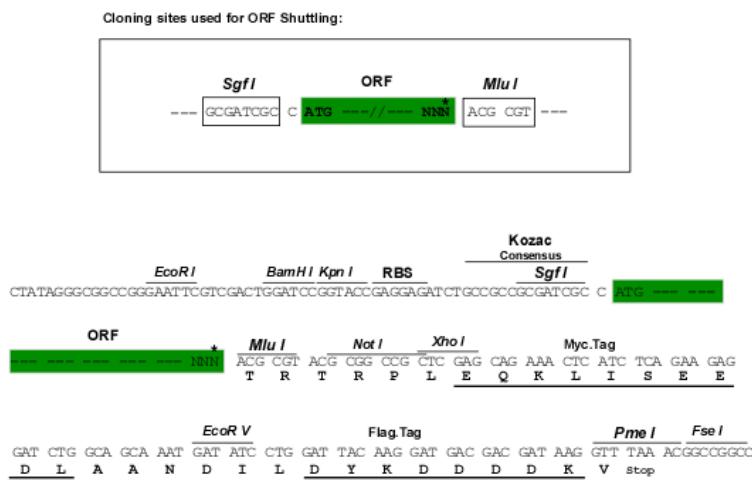
**TRTRPLEQKLISEEDLAANDILDYKDDDKV**

**Restriction Sites:** Sgfl-Mlul



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## Cloning Scheme:



ACCN: NM\_183424

ORF Size: 372 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\\_183424.1](#), [NM\\_183424.2](#), [NM\\_183424.3](#), [NM\\_183424.4](#), [NP\\_906269.1](#)

**RefSeq Size:** 2863 bp

**RefSeq ORF:** 375 bp

**Locus ID:** 227717

**UniProt ID:** [Q8CE23](#)

**Cytogenetics:** 2 B

**MW:** 13.4 kDa

**Gene Summary:** This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. The encoded products are members of the RFamide family of neuropeptides, characterized by their common protein C-terminus consisting of an arginine (R) and an amidated phenylalanine (F). These products include the neuropeptides QRFP-26 (26RFa) and the N-terminally extended form, QRFP-43 (43RFa). Both of these neuropeptides bind to the pyroglutamylated RFamide peptide receptor (QRFPR) and may regulate blood pressure, reproduction and food intake. [provided by RefSeq, Sep 2015]

### Product images:

