

## Product datasheet for **MG200640**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Qrfp (NM\_183424) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Qrfp  
**Synonyms:** P51; P518; QR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200640 representing NM\_183424  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGGGCTTCCGGCCTTTGCTTTCCCTACTTCTCCCTCTGAGTGCCTGCTTTCCCTGCTGGACAGAA  
 GGGGACCCACAGACATCGGTGACATCGGAGCCAGGATGAGCTGGGCCAGCTGGCTGAGGGACACCCCC  
 CAACTCGTTCAAATCCACAGCCACAGGCCCTGCTTGTGGTGGCCAAGGAGCAGCAGGCCCTCCACAGG  
 GAGCACACCGGTTCCGTCTAGGGAGGCAAGACGGTAGCAGTGAAGCCGAGGGTTCTGCCCGCCGACT  
 CGGAGAAGGCCAGCGCCCTCTGGGACTCTGGCAGAGGAGCTGAGCAGCTACAGCCGGAGGAAGGGAGG  
 CTTACAGCTCCGCTTTGGACGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200640 representing NM\_183424  
 Red=Cloning site Green=Tags(s)

MRGFRPLLSLLLPLSACFPLDRRGPTDIDIGARMSWAQLAEGHPPNSVQNPQPQALLVVAKEQQASHR  
 EHTGFRQLGRQDGSSEAAGFLPADSEKASGPLGLAEELSSYSRRKGGFSFRFRG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_183424.1</a> , <a href="#">NP_906269.1</a>
<b>RefSeq Size:</b>	2866 bp
<b>RefSeq ORF:</b>	375 bp
<b>Locus ID:</b>	227717
<b>UniProt ID:</b>	<a href="#">Q8CE23</a>
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	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 (QRFP) and may regulate blood pressure, reproduction and food intake. [provided by RefSeq, Sep 2015]