

## Product datasheet for **RG204556**

### MRGPRF (NM\_145015) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | MRGPRF (NM_145015) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | MRGPRF                                                                      |
| Synonyms:                 | GPR140; GPR168; MRGF; RTA                                                   |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG204556 representing NM_145015<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGAACTGCTCCTGGGAGGCCCATCCCGCAACAGGAACAAGATGTGCCCTGGCCTGAGCGAGG  
CCCCGGAACCTACAGCCGGGGCTTCTGACCATCGAGCAGATCGCGATGCTGCCGCTCCGGCCGTCAT  
GAACTACATCTTCTGCTCCTCTGCCTGTGTGGCCTGGTGGGCAACGGGCTGGTCTCTGGTTTTTCGGC  
TTCTCCATCAAGAGGAACCCCTTCTCCATCTACTTCTGCACCTGGCCAGCGCCGATGTGGGCTACCTCT  
TCAGCAAGGCGGTGTTCTCCATCCTGAACACGGGGGGCTTCTGGGCACGTTTGCCGACTACATCCGCAG  
CGTGTGCCGGGTCTGGGGCTCTGCATGTTCTTACCGGCGTGAGCCTCCTGCCGGCCGTGAGCGCCGAG  
CGCTGCGCCTCGGTCTCTTCCCGCCTGGTACTGGCGCCGGCGGCCAAGCGCCTGTGCGCCGTGGTGT  
GCGCCCTGCTGTGGGTCTGTCCCTCCTGGTCACTGCCTGCACAACCTACTTCTGCGTGTCTCTGGGCCG  
CGGGGCCCCCGGCGCGGCTGCAGGCACATGGACATCTTCTGGGCATCCTCCTGTTCTCTGCTCTGCTGC  
CCGCTCATGGTGCTGCCCTGCCTGGCCCTCATCTGCACGTGGAGTGCCGGGCCGACGGCGCCAGCGCT  
CTGCCAAGCTCAACCACGTCATCCTGGCCATGGTCTCCGTCTTCTGGTGTCTCCATCTACTTAGGGAT  
CGACTGGTCTCTTCTGGGTCTTCCAGATCCCGGCCCTTCCCGAGTACGTCACTGACCTGTGCATC  
TGCATCAACAGCAGCGCCAAGCCATCGTCTACTTCTGGCCGGGAGGACAAGTCGACGCGGCTGTGGG  
AGCCGCTCAGGTGGTCTTCCAGCGGGCCCTGCGGGACGCGCTGAGCTGGGGAGGCGGGGCCAGCAC  
GCCCAACACAGTCACCATGGAGATGCAGTGTCCCCGGGGAACGCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204556 representing NM\_145015  
 Red=Cloning site Green=Tags(s)

MAGNCSWEAHPGNRNKMCPGLSEAPELYSRGFLTIEQIAMLPPPAVMNYIFLLLCLCGLVGNGLVLWFFG  
 FSIKRNPFISIYFLHLASADVGYLFSKAVFSILNTGGFLGTADYIRSVCRVLGLCMFLTGVSLLPAVSAE  
 RCASVIFPAWYWRRRPKRLSAVVCALLWVLSLLVTCLHNYFCVFLGRGAPGAACRHMDFLIGILLFLLCC  
 PLMVLPLCLALILHVECRARRRQRSAKLNHVILAMVSVFLVSSIYLGIDWFLFWVFQIPAPFPEYVTDLCI  
 CINSSAKPIVYFLAGRDKSQRLWEPLRVVFQRLALRDGAELGEAGGSTPNTVTMEMQCPPGNAS

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145015

**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\\_145015.5](#)

**RefSeq Size:** 2153 bp

**RefSeq ORF:** 1032 bp

**Locus ID:** 116535

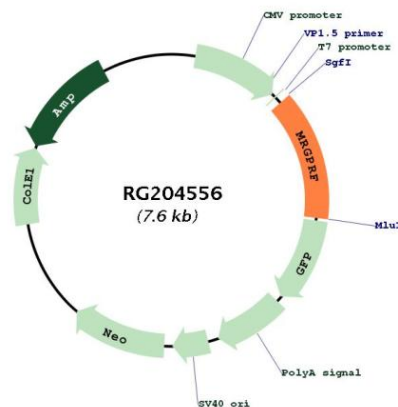
**UniProt ID:** [Q96AM1](#)

**Cytogenetics:** 11q13.3

**Domains:** 7tm\_1

**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 RG204556