

## Product datasheet for **MG216115**

### Mrgpra4 (NM\_153524) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** Mrgpra4  
**Synonyms:** Mgrgl0; MrgA4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG216115 representing NM\_153524  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCACCCACAACAACAAATCCAATGAACGAAACCATCCCTGGAAGTATTGACATCGAGACCCTGATCC  
 CAAACTTGATGATCATCATCTTCGGACTGGTCGGGCTGACAGGAAATGTCATTTGTTTTGGCTCCTGGG  
 CTTCCACTTGACAGGAATGCCTTCTTAGTCTACATCCTAACTTGGCCCTGGCTGACTTCTCTTCCTT  
 CTCTGTCACATCATAAATCCACAATGCTTCTTCTCAAGGTTACCTACCAACAATATTTGAACCATT  
 GCTTTGACATCATGACAGTTCTCTACATCACAGGCCTGAGCATGCTCAGTGCCATCAGCACTGAGCG  
 CTGCTGTCTGTCTGTGCCCATCTGGTATCGGTGCCGCCGCCGAGAACACATCAACTGTCCTGTGT  
 GCTGTGATCTGGTTCCTGCCCTGTTGATCTGCATTCTGAATGGATATTTCTGTCATTTCTTTGGTCCCA  
 AATATGTAATTGACTCTGTGTCTGGCAACGAACTCTTTATCAGAACATACCCGATGTTTTGTTTAT  
 AGTCTCTGTCTGCCACCCTGGCTCTGCTGGCCAGGTTGTTCTGTGGTCTGGGAAGACGAAATTTACC  
 AGATTATTCGTGACCATCATGCTGACCGTTTTGGTTTTCTCTCTGTGGGTTGCCCTGGGCTTCTTCT  
 GGTTTCTGGTGCCCTGGATTAACCGTGATTTCACTGTACTAGATTATACTTTTTCAGACATCACTTGT  
 CCTAACTTCTGTTAACAGCTGTGCCAACCCCATCATTTACTTCTTTGTGGGCTCCTTCAGGCATCGGTTG  
 AAGCACAAAGACCCTCAAATGGTTCTCCAGAGTGCATTGCAGGACACTCCTGAGACACTGAAAACATGG  
 TGGAGATGTCAAGAAGCAAAGCAGAGCCG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG216115 representing NM\_153524  
Red=Cloning site Green=Tags(s)

MAPTTTNPMMNETIPGSIDIETLIPNLMIIIFGLVGLTGNVILFWLLGFHLHRNAFLVYILNLALADFLFL  
 LCHIIINSTMLLLKVLHPNNILNHCFDIIMTVLYITGLSMLSAISTERCLSVLCPWYRCRRPEHTSTVLC  
 AVIWFLLPICILNGYFCHFFGPKYVIDSVCLATNFFIRTYPMFLFIVLCLSTLALLARLFCGAGKTKFT  
 RLFVTIMLTVLVLLCGLPLGFFWFLVPWINRDFSVLDYILFQTSVLVTSVNSCANPIIYFFVGSFRHRL  
 KHKTLKMLVQSALQDTPETPENMVMESRSKAEP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_153524

**ORF Size:** 939 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\\_153524.2](#), [NP\\_705744.2](#)

**RefSeq Size:** 1503 bp

**RefSeq ORF:** 942 bp

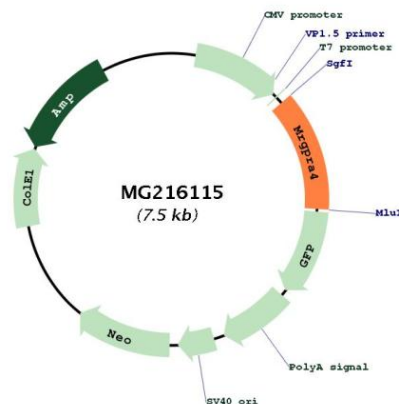
**Locus ID:** 235854

**UniProt ID:** [Q9IWW2](#)

**Cytogenetics:** 7 B4

**Gene Summary:** Orphan receptor. May be a receptor for RFamide-family neuropeptides such as NPFF and NPAF, which are analgesic in vivo. May regulate nociceptor function and/or development, including the sensation or modulation of pain.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216115