

Product datasheet for **MG216537**

Mrgprx2 (NM_001034868) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mrgprx2 (NM_001034868) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mrgprx2
Synonyms: G370024M05Rik; MrgB10; Mrgprb10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216537 representing NM_001034868
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGAGGAAAGAAACATCAGTGGAGGGATCTAAGAGTGGATTCAAACATAACATACTGGGGAACAAACA
 TCACAGCTGTGAATGAAAGCAACCATACTGGAATGTCATTTTGTGAAGTCGTGCTTGTACCATGGTTTT
 TCTTCCCTCATTGTTGCCCTAGTTGGGCTGGTTGGAAATGCCACAGTGTGGTTCTGGGCTCCAG
 ATGCGCAGGAATGCATTCTGTTTACATCCTCAACCTCGCTGGTGTGACTTTCTTTCATTTGCTTTT
 AAATTGGATATTGTTTTACATGATCTTGGACATTGATCCATCCCCATTGAAATTGATCTGTTTTACCT
 TGTGTGTAAACTTTCCTTATTTTTGTGGCCTGAGTATCCTCAGTGCTATTAGCATTGAACGTTGCCTG
 TCTGTCATGTGGCCCATTTGGTATCACTGCCAACGCCAAGGCACACATCAGCTGTCATATGTACCTGC
 TTTGGGCTTGTCCCTAGTGTGTAGCCTCCTGGAAGGGAAGGAATGTGGCTTCTATATTACACTAGTGA
 CCCTGGTTGGTGAAGACATTTGATTTAATCACTGCTACATGGTTAATTGTTTTATTTGTAGCTCTTTG
 GGATCCAGTCTGGCCTTAGTGATTACCATCTTCTGGGGCTTACACAAGATTCTGTGACCAGGCTGTATG
 TGGCCATTGTGTTACAGTGCTTGTTCCTGCTCTTTGGTCTGCCCTATGGGATCTACTGGTTCCTCTT
 AGTGTGGATTGAGAAATTTATTATGTTTTACCTGTAGTATATATCCGGTCACAGTATTTCTCTCTGT
 GTTAACAGCTCTGAAAACCCATCATTTATTGCCTTGTAGGCTCCATTAGGCATCATCGATTTCAACGGA
 AGACTCTCAAGCTATTTCTGCAGAGGCCATGCAAGACACTCTGAGGAGGAAGAATGTGGAGAGATGGG
 TTCTCAGGAAGATCTAGAGAAATAAAAACAATCTGAAAAGGACTGAGAGCTGCTTTGATCAGGCATAAA
 GAGCTC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216537 representing NM_001034868
 Red=Cloning site Green=Tags(s)

MEERNISGRDLRVDSNITYWGTNITAVNESNHTGMSFCEVVSCTMVFLSLIVALVGLVGNATVLWFLGFQ
 MRRNAFSVYILNLAGADFLFICFQIGYCFHMILDIDSIPIDLFYLVVLNFPYFCGLSILSAISIERCL
 SVMWPIWYHCQRPRHTSAVICTLLWVLSLVCSLLEGKECGFLYYTSDPGWCKTFDLITATWLIVLIVFVALL
 GSSLALVITIFWGLHKIPVTRLVYAIIVFTLVFLLFGLPYGIYWFLLVWIEKFYYVLPCSIYPVTVFLSC
 VNSSAKPIIYCLVGSIRHHRFQRKTLKFLQRAMQDTPREEECGEMGSSGRSREIKTIWKLRAALIRHK
 EL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2233_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



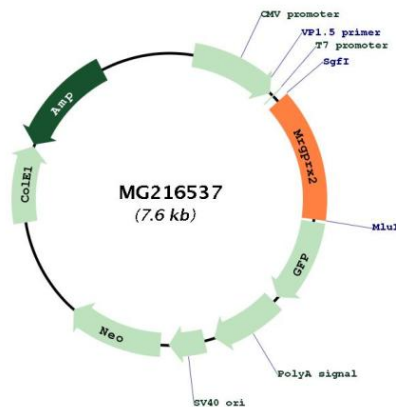
ACCN: NM_001034868

ORF Size: 1056 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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.
RefSeq:	<u>NM_001034868.3, NP_001030040.2</u>
RefSeq Size:	4559 bp
RefSeq ORF:	1059 bp
Locus ID:	243978
UniProt ID:	<u>Q3UG50</u>
Cytogenetics:	7 B4
Gene Summary:	Orphan receptor. Probably involved in the function of nociceptive neurons. 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 MG216537