

Product datasheet for **MG223044**

Mrgprd (NM_203490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrgprd (NM_203490) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mrgprd
Synonyms:	Gm499; Mgrd; MrgD; TGR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223044 representing NM_203490 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCTCACTCTTGACAGCAGCCAGCTCCAGGTCTGACCATCAGTCCCACCATGGACCTTGTGACCT
GGATCTACTTTTCAGTGACATTCTCGCCATGGCCACGTGTGGGGGGGATGGCAGGCAACTATTGGT
GATTTGGCTCCTGAGCTGCAACGGCATGCAGAGGTCTCCCTTCTGTGTCTATGTGCTCAACTGGCGGTG
GCTGACTTCTCTTATTCTGCATGGCCTCCATGCTCAGCCTGGAAACAGGGCCCTGCTCATAGTCA
ACATTTCTGCCAAATCTATGAAGGGATGAGGAGAATCAAGTACTTTGCCTATACAGCAGGCCTGAGCCT
GCTGACAGCCATCAGCACCCAGCGCTGCCTCTCCGTGCTTTCCCATCTGGTATAAGTGCCACCGGCC
CGGCACCTGTATCAGTGGTATCTGGTGCCTCTGGGCACTGGCCTTCTGATGAACTTCTGGCTTCTT
TCTTCTGCGTCCAATTCTGGCATCCCAACAAACACCAGTGCTTCAAGGTGGACATTGTTTTCAACAGTCT
TATCCTGGGGATCTTCATGCCGGTATGATCCTGACCAGCACCCTCTTCCATCCGGGTGCGGAAGAAC
AGCCTGATGCAGAGACGGCGGCCCGCGGCTGTACGTGGTATCCTGACTTCCATCCTTGTCTTCTCA
CCTGTTCTCTGCCCTTGGGCATCAACTGGTCTTACTCTACTGGTGGATGTGAAACGGGATGTGAGGCT
ACTTTATAGCTGCGTATCAGCTTCTTTCATCTTTGAGCAGCAGTGCCAACCCGGTCATTTACTTCTCT
GTGGGCAGCCAGAAGAGCCACCGGCTGCAGGAGTCCCTGGGTGCTGTGCTGGGGCGGCACTGCGGGATG
AGCCTGAGCCAGAGGGCAGAGAGACGCCATCCACGTGTACTAATGATGGGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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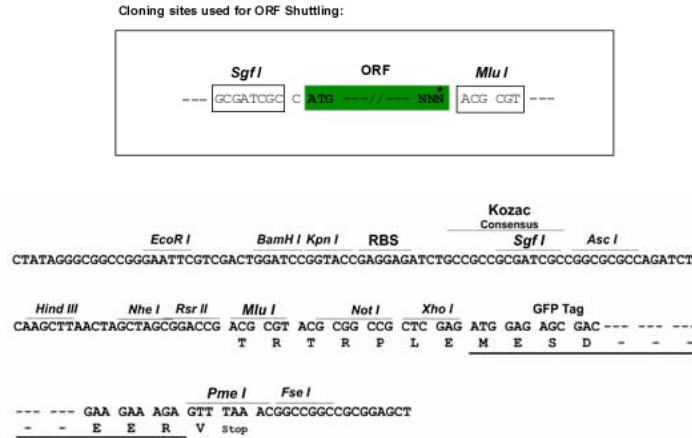
Protein Sequence: >MG223044 representing NM_203490
 Red=Cloning site Green=Tags(s)

MNSTLDSSPAPGLTISPTMDLVTWIYFSVTFLAMATCVGGMAGNSLVIWLLSCNGMQRSPFCVYVLNLAV
 ADFLFLFCMASMLSLETGPLLIVNISAKIYEGMRRIKYFAYTAGLSLLTAISTQRCLSVLFPIWYKCHRP
 RHLSSVVS GALWALAF LMN FLASF FCVQFWHPNKHQC FKVDIVFNSLILGIFMPVMILTSTILFIRVRKN
 SLMQRRRPRRLYVVILTSILVFLTCSLPLGINWFLLYWVDVKRDVRLLYSCVSRFSSSLSSANPVIYFL
 VGSQKSHRLQESLGAVLGRALRDEPEPEGRETPSTCTNDGV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_203490

ORF Size: 963 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.

RefSeq: [NM_203490.3](#), [NP_987075.1](#)

RefSeq Size: 3143 bp

RefSeq ORF: 966 bp

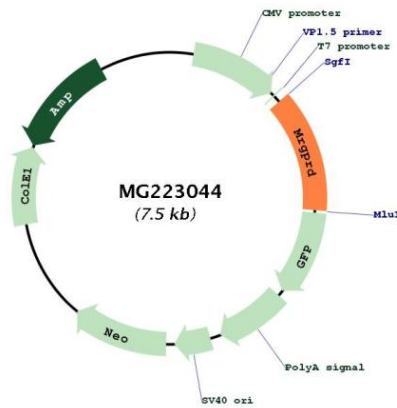
Locus ID: 211578

UniProt ID: [Q91ZB8](#)

Cytogenetics: 7 F5

Gene Summary: May regulate nociceptor function and/or development, including the sensation or modulation of pain. Functions as a specific membrane receptor for beta-alanine. The receptor couples with G-protein G(q) and G(i) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223044