

Product datasheet for MR223044

Mrgprd (NM_203490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrgprd (NM_203490) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrgprd
Synonyms:	Gm499; Mgrd; MrgD; TGR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223044 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCACTCTTGACAGCAGCCAGCTCCAGGTCTGACCATCAGTCCCACCATGGACCTTGTGACCT
GGATCTACTTTTCAGTGACATTCCTCGCCATGGCCACGTGTGGGGGGGATGGCAGGCAACTCATTGGT
GATTTGGCTCCTGAGCTGCAACGGCATGCAGAGGTCTCCCTTCTGTGTCTATGTGCTCAACTGGCGGTG
GCTGACTTCTCTTCTTATTCTGCATGGCCTCCATGCTCAGCCTGGAAACAGGGCCCTGCTCATAGTCA
ACATTTCTGCCAAATCTATGAAGGGATGAGGAGAATCAAGTACTTTGCCTATACAGCAGGCCTGAGCCT
GCTGACAGCCATCAGCACCCAGCGCTGCCTCTCCGTGCTTTCCCATCTGGTATAAGTGCCACCGGCC
CGGCACCTGTATCAGTGGTATCTGGTGCCTCTGGGCACTGGCCTTCTGATGAACTTCTGGCTTCTT
TCTTCTGCGTCCAATTCTGGCATCCCAACAAACACCAGTGCTTCAAGGTGGACATTGTTTTCAACAGTCT
TATCCTGGGGATCTTATGCCGGTATGATCCTGACCAGCACCATCCTTTCATCCGGGTGCGGAAGAAC
AGCCTGATGCAGAGACGGCGGCCCGGGGCTGTACGTGGTATCCTGACTTCCATCCTTGTCTTCTCA
CCTGTTCTCTGCCCTTGGGCATCAACTGGTCTTACTCTACTGGTGGATGTGAAACGGGATGTGAGGCT
ACTTTATAGCTGCGTATCAGCTTCTTTCATCTTTGAGCAGCAGTGCCAACCCGGTCATTTACTTCTCTC
GTGGGCAGCCAGAAGAGCCACCGGCTGCAGGAGTCCCTGGGTGCTGTGCTGGGGCGGCACTGCGGGATG
AGCCTGAGCCAGAGGGCAGAGAGACGCCATCCACGTGTACTAATGATGGGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223044 protein sequence
Red=Cloning site Green=Tags(s)

MNSTLDSSPAPGLTISPTMDLVTWIYFSVTFLAMATCVGGMAGNSLVIWLLSCNGMQRSPFCVYVLNLAV
 ADFLFLFCMASMLSLETGPLLIVNISAKIYEGMRRRIKYFAYTAGLSLLTAISTQRCLSVLFPIWYKCHRP
 RHLSSVVS GALWALAF LMNFLASFFCVQFWHPNKHQC FKVDIVFNSLILGIFMPVMILTSTILFIRVRKN
 SLMQRRRPRRLYVVILTSILVFLTCSLPLGINWFLLYWVDVKRDVRLLYSCVSRFSSSLSSANPVIYFL
 VGSQKSHRLQESLGAVLGRALRDEPEPEGRETPSTCTNDGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_203490

ORF Size: 966 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_203490.1](#), [NM_203490.2](#), [NM_203490.3](#), [NP_987075.1](#)

RefSeq Size: 3143 bp

RefSeq ORF: 966 bp

Locus ID: 211578

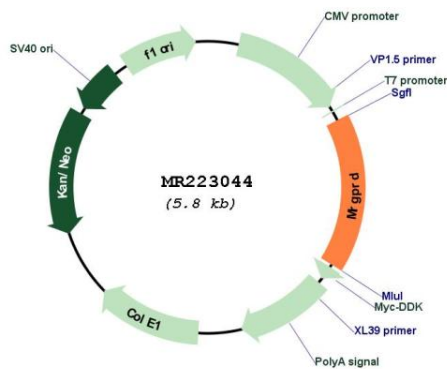
UniProt ID: [Q91ZB8](#)

Cytogenetics: 7 F5

MW: 36.1 kDa

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 MR223044