

Product datasheet for **MG223439**

Prg2 (NM_008920) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prg2 (NM_008920) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prg2
Synonyms:	EMBP; MBP; mMBP; mMBP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223439 representing NM_008920 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAATCCCTCTACTTCTGGCTCTTCTAGTCGGGGAGCGTCTGCTCTTCATCTGAGCTCTGAACTT
 CTGACTCCAAAAGCCCATTGATGGATGAGAACTTGCCTAGGGATGCAGAGATATCAGGACCAGAAGGAGA
 AGAGTGTCTCCAGGGGAAGAGCTAATGCCACTGGAGGGGAGAAGGAAGAAGTTCTGGAAGTGAAGGT
 GTTCTGGGGATGAAGGAGCTGTCTCAGGTCAGGATGTGACAGACGTGGACCTTCAGTGCCCAAGGAAG
 AGGACACAACAAGTCTTATGGGTGACTCTGGATGCAAGACCTGTCGCTACCTCCTAGTCAGGAGGGCTGA
 ATGCTTTGACAAAGCTCAGTCAGTTTGCCGGCGCTGCTACCGGGCACCTCGCCTCCATCCACAGTTTC
 AGTGTTAACTTCGGAATCCAGTCCGCTGTGAGGGGAATCAACCAGGGTCAAGTCTGGATTGGAGGCAGGA
 TCAAGGGCTGGGGCCGATGCAAACGCTTTCGATGGGTTGATGGAAGTTCTTGGAATTTGCATACTGGGC
 TGCTGGGCAGCCTTGCCCTGGTGGTGGCAGATGTGTGACCCTGTGTACTCAAGGAGGCCACTGGCGTCTA
 TCTCACTGTGTCAAGAGACGTCCCTTCATCTGTTCTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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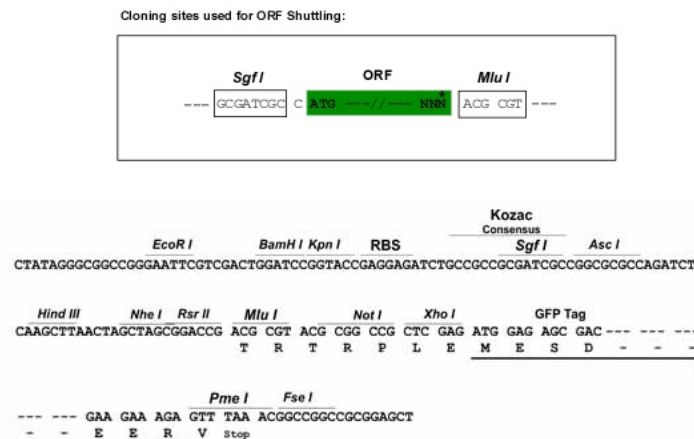
Protein Sequence: >MG223439 representing NM_008920
 Red=Cloning site Green=Tags(s)

MKFPLLLALLVGGASALHLSSETSDKSPLMDENLPRDAEISGPEGEECPPGEELMPLEGEKEEGSGSEG
 VPGDEGAVSGQDVTVDVLQCPKEEDTTSLMGDSGCKTCRYLLVRRACFDKAQSVCRRCYRGTLASIHSE
 SVNFGIQSAVRGINQGQVWIGGRIGKGRCKRFRWVDGSSWNFAywaagQPCPGGRCVTLCTQGGHWRL
 SHCVKRRPFICSY

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008920

ORF Size: 669 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_008920.4](#), [NP_032946.1](#)

RefSeq Size: 838 bp

RefSeq ORF: 672 bp

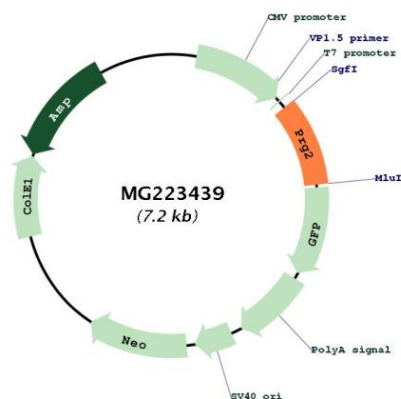
Locus ID: 19074

UniProt ID: [Q61878](#)

Cytogenetics: 2 49.45 cM

Gene Summary: Cytotoxin and helminthotoxin. MBP also induces non-cytolytic histamine release from basophils. It is involved in antiparasitic defense mechanisms and immune hypersensitivity reactions (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223439