

## Product datasheet for MR204931

### Mpg (NM\_010822) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mpg (NM_010822) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpg
Synonyms:	9830006D05; Aag; AI326268; APNG; Mid1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204931 representing NM_010822 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCCCGCGCGGTGGTAGTGCAGCCCGGGCAGAGGAGCCCTAAAACCGGTGTCCGTGACCCTGCTCC  
CCGACACCGAGCAGCCTCCATTTCTTGGACGAGCCCGCCAGGGAATGCCAGAGCAGGATCCCTAGT  
GACCGGATATCATGAGGTCGGCCAGATGCCAGCGCCGCTTCCCGAAAGATTGGGCAAAAAAGCAGCGA  
CTGGCAGATTAGAGCAGCAGCAGACCCCTAAAGAGAGACTCCTGTGACCCCGGCCTCCGGCGGAGTA  
TCTACTTCTCCAGCCAGAGGACCATTCTGGCCGGCTAGGACCAGAGTTTTTTGACCAGCCAGCAGTCAC  
CCTAGCCCGTGCAATTTCTGGGACAGTTCTTGTCCGGCGACTCGCTGATGGAACAGAAGCTCCGTGGGCGC  
ATTGTGGAGACTGAGGCATACTTGGGGCCAGAAGTGAAGCTGCTCACTCAAGAGGTGGCCGGCAGACCC  
CCCGGAACCGTGGCATGTTTCAAGAACCTGGGACCCTGTATGTGTACCTCATCTATGGCATGTAATCTGT  
CTTGAATGTCTCTAGTCAAGGGGCTGGGCTTGTGTCTTGTCTAAGAGCACTAGAGCCCTGGAGGGCCTG  
GAGACCATGCGGCAGCTTCGTAACCTCCGAAAAAGCACTGTCGGCCGTTCCCTCAAGGACCGTGAAC  
TCTGTAGTGGTCCCTCCAAGCTGTGCCAGGCCCTGGCCATTGATAAGAGCTTTGACCAGCGAGACCTGGC  
TCAAGATGATGCTGTGTGGCTGGAGCATGGCCCTCTGGAGTCCAGTAGCCAGCTGTGGTGGTGGCAGCA  
GCCCGTATAGGTATTGGTCATGCAGGGGAGTGGACACAGAAGCCCTTGGCCTTCTATGTCCAGGGCAGCC  
CATGGGTCAAGTGTGGTAGACAGAGTGGCTGAACAGATGGATCAGCCTCAGCAAACAGCCTGCTCTGAGGG  
GCTTTTAATTGTTCAAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204931 representing NM\_010822  
 Red=Cloning site Green=Tags(s)

MPARGGSARPGRGALKPVSVTLLPDTEQPPFLGRARRPGNARAGSLVTGYHEVGQMPAPLSRKIGQKKQR  
 LADSEQQQTPKERLLSTPGLRRSIYFSSPEDHSGRLGPEFFDQPAVTLARAF LGQVLVRRLLADGTELRR  
 IVETEAYLGPEDAAHSRGRQT PRNRGMFMKPGTLYVYLIYGMVFC LNVSSQGAGACVLLRALEPLEGL  
 ETMRQLRNSLRKSTVGRSLKDRELCSGPSKLCQALAIKSFDRDLAQDDAVWLEHGPLESSPAVVVAA  
 ARIGIGHAGEWTQKPLRFYVQGSPPWVSVDRVAEQMDQPQQTACSEGLLIYVQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9020\\_e05.zip](https://cdn.origene.com/chromatograms/mm9020_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010822

**ORF Size:** 999 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\\_010822.3](#), [NP\\_034952.2](#)

**RefSeq Size:** 1745 bp

**RefSeq ORF:** 1002 bp

**Locus ID:** 268395

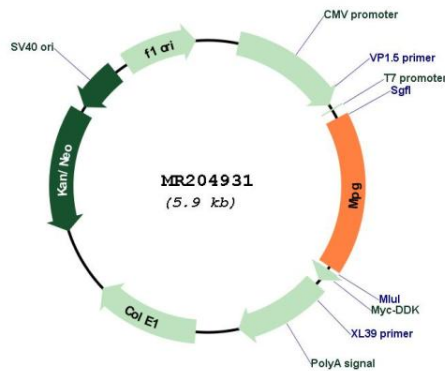
**UniProt ID:** [Q04841](#)

**Cytogenetics:** 11 18.83 cM

**MW:** 36.9 kDa

**Gene Summary:** Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions.  
[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204931