

Product datasheet for **MR223193**

Prp2 (NM_031499) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prp2 (NM_031499) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prp2
Synonyms:	MP1; MP14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223193 representing NM_031499, **codon optimized**.
 Due to the complexity of NM_031499, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCTGGTGGTCTTTTACAGTAGCGCTGCTGGCACTCAGCTCCGCACAGGAGCCTAGAGAAGAACTTC
 AGAATCAGATTAGATTCTAATCAGCGCCCCCTCAAGCGGGAGCCAGCCGAGGCCGCCGTTAACGG
 CTCCCAACAAGGACCTCTCCACAGGCGGACCTCAACCCCGTCTCCACAAGTCTCCACCTCCAGGA
 GGTCACAGCCAAGACCTCCACAGGGACCCCTCCACCTGGGGGTCCACAACCACGTCCGCCTCAGGGTC
 CGCTCTCTCAGGTGGTCTCAGCCAAGGCCACCTCAGGGTCCCCCTCTCTGGAGGACCACAACCTCG
 GCCTCTCAGGGTCCACACCTCTGGGGTCCACAGAACGGCCCCCTCAGGGTCCACCTCCACAGGC
 GGTCTCAACAGAGGCCTCTCAGGACCCCCACCTCTGGTGGACCACAGCCTCGGCCACCACAGGGAC
 CCCCTCTCCAGCAGGCCCTCAGCCAAGACCTCTCAGGGCCACCACCACCGGGCCCTCATCTGAGGCC
 AACTCAGGGGCCACCACAACCGGTGGTCCACAGCAGAGGTATCCACAGTCCCCGCCACCGCCTGGAGGC
 CCTCAACCTAGGCCACCTCAAGTCTCCCCCTCCGGGAGGGCCACACCTCGCCCCACCCAGGGTCCCC
 CGCCACCGGACCCAGCCGCGCCCAACTCAGGGCCACCTCCACCGGTGGCCACAACAGCGACCACC
 ACAAGGCCCTCCACACCGGGTGGACCACAGCCTAGGCCACCTCAGGGACCTCCGCCTCTACCGGCCCT
 CAGCCTAGGCCTACACAAGGACCACACCAACTGGAGGTCCCCAGCAGACCCCTCACTTCTGGAACC
 CACAAGGACCTCCGCAGGTAGGCTCAGGGACCACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

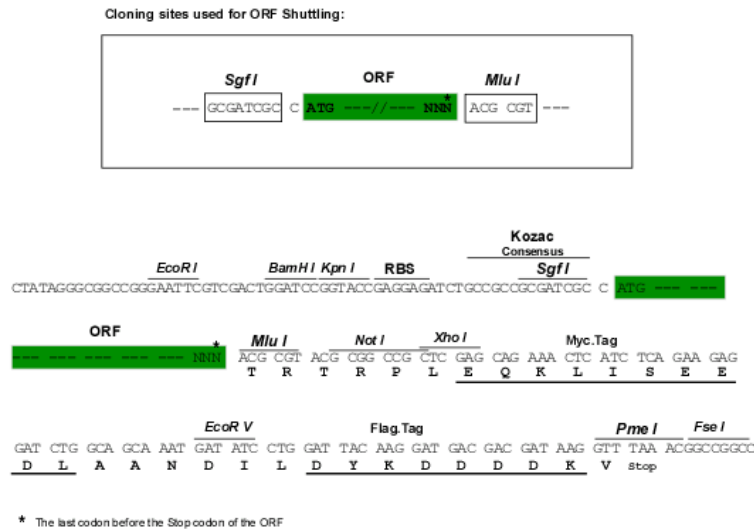
>MR223193 representing NM_031499
 Red=Cloning site Green=Tags(s)

MLVVLFTVALLALSSAQEPREELQNQIQIPNQRPPPSGSQPRPPVNGSQGGPPPPGGPQPRPPQGGPPPG
 GPQPRPPQGGPPPGGPQPRPPQGGPPPGGPQPRPPQGGPPPGGPQPRPPQGGPPPGGPQPRPPQGGPPPG
 GPQPRPPQGGPPPGGPQPRPPQGGPPPGAGPQPRPPQGGPPPGPHLRPTQGPPPTGGPQQRYPQSPPPPGG
 PQRPPQGGPPPGGPHRPTQGPPPTGPQPRPTQGPPPTGGPQQRPPQGGPPPGGPQPRPPQGGPPPTGP
 QPRPTQGPHTGGPQQTPLAGNPQGGPQGRPQGPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031499

ORF Size: 948 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_031499.1](#), [NM_031499.2](#), [NP_113687.2](#)

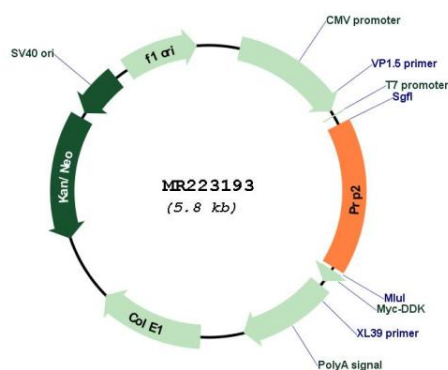
RefSeq Size: 951 bp

RefSeq ORF: 951 bp

Locus ID: 83380

Cytogenetics:	6 G1
MW:	31.8 kDa
Gene Summary:	This gene encodes a member of the heterogeneous family of proline-rich salivary glycoproteins. The expression of this gene is dramatically induced in the parotid and submandibular glands of mice by beta-adrenergic stimulation. The encoded protein serves an important dental function by protecting mice against toxic dietary polyphenols such as tannins and influence the visco-elastic properties of the mucus. This gene is located in a cluster of closely related salivary proline-rich proteins on chromosome 6. [provided by RefSeq, Nov 2015]

Product images:



Circular map for MR223193