

Product datasheet for **MG216901**

Mpp7 (NM_001081287) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpp7 (NM_001081287) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mpp7
Synonyms:	1110068J02Rik; 2810038M04Rik; 5430426E14Rik; AI415104; Gm955
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216901 representing NM_001081287
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCCAGCGCTGGCCACAGGATCGGCTTGCACATGGGTCTGTATGAGCTGTTGGCTGCTCTGCCTGCCC
 AGCTGCAGCCACATGTGGATAGCCAGGAGACCTGACCTTCTCTGGGACGTGTTTGGTGAAAAGAGCCT
 GCATTCAGTGGTCAAGATTTCATGAAAACTTCACTGCTATGAGAAGCAGAATCCGTTGCCATTCTCCAT
 GGTGCAGCAGCGTTGGCTGATGATCTGACTGAAGAGCTACAGAACAAGCTACCAACAGTGAGATCAGAG
 AGCTGTTGAACTGCTGTCAAACCCAATGTCAAGGCTTTGCTGTCAGTACATGATACTGTGGCTCAAAA
 GAGTTATGATCCTGTATTGCCTCCCGTGCCTGACGATATTGATGATGAGGAAGACTCTGTGAAAATAATC
 CGCCTGGTCAAAAATAGCGAGCCCCTGGTGCTACCATTAAGAAAGATGAGCAGACCGGAGCAATCACTG
 TGGCCCAATCATGCGGGGAGGAGCTGCAGATAGAAGTGGTCTTATTCACGTGGGTGATGAGCTGAGGGA
 AGTGAATGGAATCCAGTGGAAGATAAGAGGCCTGAGGAAATAATAAAGATTTTGAGTCAGTCCAAGGGA
 GCAATTACATTTAAGATAATACCCAGCACCAAAGAGGAGACACCTTCGAAAGAAGGCAAGATATTTATCA
 AAGCCCTCTTTGACTACGATCCTAAGGAAGACAAGGCAATCCCGTGTAAAGAGGCAGGGCTGTCTTCAG
 GAAGGGGGACATTTCTCAGATTATGAGCCAAGATGATGTGACATGGTGGCAGGCTAAGCATGAAGGAGAT
 GCCAACCCAGAGCGGGCCTGATTCCTCCCAAGCACTTCAGGAACGGAGACTGGCTCTGAGACGACCAG
 AAATAGTAGTTTCAAGCTCTGAACTTTCCAACACGAAATCATCTGGTTTTAGAAGAAGTTTCCGCTTAG
 CAGAAAAAATAAGAAAAATAAAGTCCATGTATGAATGCAAAAAGAGTGAGCAGTATGACACGGCAGAT
 GTGCCCACATATGAGGAGGTGACACCTACCGCGGCAGATCCATGACAAATACAGACTCATTGTCCTGG
 TTGGTCTGTGCGAGTCGGGCTAAATGAGCTGAAGCGAAAGCTATTGATGAGTGATGCACAGCACTATGG
 TGTGATAGTGCCCCACACCACTAGAGCAAGAAGCAAGCAAGAGAGTGATGGTGTGGAATATATTTTTATT
 TCCAAACATTTGTTTGAACAGATGTACAAAATAACAAGTTCAATTGAGTATGGTGAATATAAAAAACACT
 ATTATGGTACAAGTATAGACTCGGTTGCTCTGTCTAGCTAAGAACAAGGTTTGTCTGTTGGATGTCCA
 GCCTCATACAGTGAAGCATTTAAGGACTGGAGTTCAAACCTATGTGATATTTATAAACCTCCATCC
 ATAGAGCGTTTGAGAGAGACAAGAAAAATGCAAAGATTATTTCAAGCAGAGATGACCAAGGAGTGCAA
 AGCCCTTCACGGAAGAAGACTTTAGGAAATGATTAAATCAGCACAGATAATGAAAGTCAATATGGCCA
 TCTTTTGAACAAATCATAATCAATGATGATCTTACTGTGGCATTATGAGCTAAAAACAACATTTGAC
 AAAGTAGAGACTGATACCATTTGGTCCAGTGAGTTGGTTACATTCA

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG216901 representing NM_001081287
 Red=Cloning site Green=Tags(s)

MPALATGSACDMGLYELLAALPAQLQPHVDSQEDLTFLLWVDFGEKSLHSLVKIHEKLHCYEKQNPLPILH
 GAAALADDLTELQNKLPNSEIRELLKLLSKPNVKALLSVHDTVAKQSYDPVLPVPDDIDDEEDSVKII
 RLKVNSEPLGATIKKDEQTGAITVARIMRGAADRSLIHVGDELREVNIPVEDKRPEEIIKILSQSKG
 AITFKIIPSTKEETPSKEGKIFIKALFDYDPKEDKAIPCKEAGLSFRKGDILQIMSQDDVTWWQAKHEGD
 ANPRAGLIPSKHFQERRLALRPEIVVQPLKLSNTKSSGFRRSFRLSRKNKKINKSMYECKKSEQYDTAD
 VPTYEEVTPYRRQIHDKYRLIVLGPVGVGLNELKRLLMSDAQHYGVIVPHTTRARRSQESDGEYEIFI
 SKHLFETDVQNNKFIEYGEYKNYYGTSIDSVRSVLAKNVCLLDVQPHTVKHLRTLEFKPYVIFIKPPS
 IERLRETRKNAKIISSRDDQGTAKPFTTEEDFQEMIKSAQIMESQYGHLLFDKIIINDDLTVAFNELKTTFD
 KLETDTHWVPVSWLHS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001081287

ORF Size: 1728 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_001081287.2](#), [NP_001074756.2](#)

RefSeq Size: 4975 bp

RefSeq ORF: 1731 bp

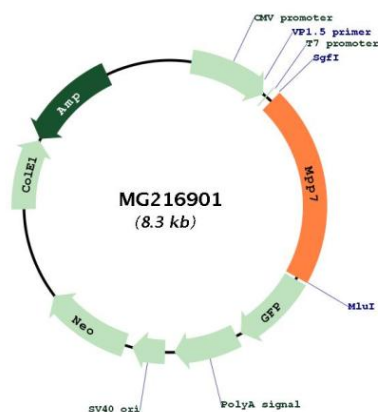
Locus ID: 75739

UniProt ID: [Q8BVD5](#)

Cytogenetics: 18 A1

Gene Summary: Acts as an important adapter that promotes epithelial cell polarity and tight junction formation via its interaction with DLG1. Involved in the assembly of protein complexes at sites of cell-cell contact (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216901