

Product datasheet for **MG224480**

Mpp6 (NM_001164734) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpp6 (NM_001164734) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mpp6
Synonyms:	P55t; Pals2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224480 representing NM_001164734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCAAGTTTGGAAAACCTTACAGAGCTGCCTCATCTACAGGAGCAGAGGAGATAGACCTAATTT
 TCCTCAAGGGGATTATGGAGAATCCTATTGTGAAGTCACTTGCTAAGGCTCATGAGAGACTTGAAGATTC
 AAAGTTAGAAGCTGTGAGTGACAATAAATTGGAATTAGTGAATGAAATCTTGAAGATATCACTCCTCTG
 ATTAGTGTGGATGAAAATGTGGCAGAGCTAGTTGGGATACTCAAGGAGCCTCACTTCCAGTCGCTCCTGG
 AGGCCCATGATATTGTGGCATCAAAGTGTATGATTCGCCTCCTCCAGCCAGAAATGAATATTCCTTC
 TCTCAATAATCAATTGCCAGTAGATGCCATCCGTATTCTCGGTATTCACAAAAAGCTGGAGAGCCATTG
 GGTGTAACATTTAGAGTTGAAAATAATGATCTGGTAATCGCCGAATCCTTCATGGAGGAATGATAGATC
 GACAAGGTCTGCTTACGTGGGAGATATCATTAAAGGAAGTCAATGGTCATGAGGTTGAAAACAATCCAAA
 GGAATTACAAGAATTATTGAAAAATATTAGTGGAAAGTGCACCCTAAAAATTTTACCAAGTTACAGAGAT
 ACTATTACTCCTCAGCAGAGTACGTCAATATGGAGAGGCACCCAGCCACGTCCGTGAGGATTTGTCA
 AGTGTCATTTTATTATAATCCATTCAATGATAACCTGATACCCTGCAAAGAAGCAGGACTAAAAATTTTC
 CAAAGGAGAAATCTTCAGATTGTAACAGAGAAGACCCAAATTTGGTGGCAGGCTAGCCATGTGAAAGAG
 GGAGGAAGTGCTGGTCTGATTCCAAGCCAGTTCCTGGAAGAGAAGAGAAAGGCATTTGTTCCGCCGAGACT
 GGGACAATTCAGGACCCTTTTGTGGAACATAAGCAACAAGAAAAAGAAAAAGATGATGTACCTCACAAC
 CAGGAATGCAGAGTTTGTATCGTCATGAAATTCAGATCTATGAGGAAGTAGCAAAAATGCCACCCTCCAA
 CGGAAAACGTTAGTTTGTATCGGAGCTCAAGGTGTGGCAGAAGGAGCTGAAAAACAGGTTTCATAGTAC
 TGAATCCTGCTAGATTTGGAACAACGGTGCCATTTACTTCACGGAAGCCAAAGAGAAGACGAAAAGGATGG
 ACAAGCATATAAAATTTGTGTCCTCCGATCAGAGATGGAAGCAGATATTAAGGCTGGGAAGTATTTGGAGCAT
 GGGGAGTACGAAGGAAACCTGTATGGAACCAAGATCGACTCTATTCTCGAGGTTGTCCAGACTGGGCGGA
 CTTGCATTTTGGACGTCAACCCACAAGCACTGAAAGTGTAAAGGACTTCTGAATTCATGCCTTATGTGGT
 GTTTATTGCTGCTCCAGAGCTAGAGACCTTGCCTGCCATGCACAAGGCTGTGGTGGATGCGGGAATCACC
 ACCAAGCTTTTGGCGACTCTGACTTGAAGAAAACAGTGGATGAAAGTGCCCGAATTCAGAGAGCATACA
 ACCACTACTTTGATTTGATCATCGTAAATGACAATCTAGACAAAGCCTTTGAGAACTACAACTGCCAT
 TGAGAAACTGAGGATGGAGCCACAGTGGTCCCAATTAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224480 representing NM_001164734
 Red=Cloning site Green=Tags(s)

MQQVLENLTELPSSTGAEEDLIFLKGIMENPIVKSLAKAHERLEDSKLEAVSDNNELELVNEILEDITPL
 ISVDENVAELVGILKEPHFQSLLEAHDIVASKCYDSPSPPEMNIPSLNQLPVDAIRILGIHKKAGEPL
 GVTFRVENNDLVIARILHGGMIDRQGLLHVGDIIKEVNGHEVGNPKELQELLKNI SGSVTLKILPSYRD
 TITPQQSYVNMERHPAHVRQVFVKCHFDPNPNLIPCKEAGLKF SKGEILQIVNREDPNWQASHVKE
 GGSAGLIPSQFLEEKRAKAFVRRDWDNSGPF CGTISNKKKKMMYL TTRNAEFDRHEIQIYEEVAKMPFFQ
 RKTLVLIGAQGVGRRSLKNRFIVLNPARFGTTVPFTRKPREDEKDGQAYKFVSRSEMEADIKAGKYLEH
 GEYEGNLYGTKIDSILEVVQTGRTCILDVNPQALKVLR TSEFMPYVVFIAAPELET LRAMHKAVVDAGIT
 TKLLTDSDLKKTVD SARIQRAYNHFDLIIVNDNL DKA FEKLQTAIEKLRMEPQWVPI SWVY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I *BamH I* *Kpn I* RBS *Sgf I* *Asc I*

CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III *Nhe I* *Rsr II* *Mlu I* *Not I* *Xho I* GFP Tag

CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

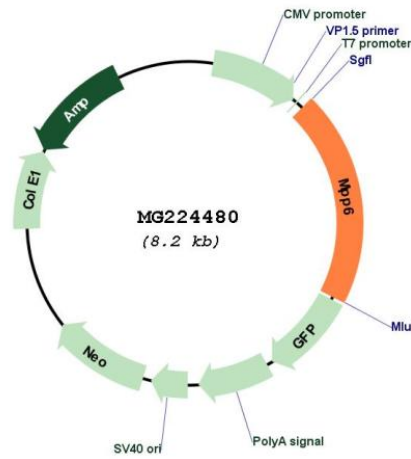
T R T R P L E M E S D - - -

Pme I *Fse I*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN:	NM_001164734
ORF Size:	1659 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001164734.1 , NP_001158206.1
RefSeq Size:	2222 bp
RefSeq ORF:	1662 bp
Locus ID:	56524
UniProt ID:	Q9JLB0
Cytogenetics:	6 24.13 cM