

Product datasheet for **RG219980**

MPP4 (NM_033066) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP4 (NM_033066) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPP4
Synonyms:	ALS2CR5; DLG6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG219980 representing NM_033066
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATACAGTCAGACAAAGGAGCAGATCCACCAGACAAGAAGGACATGAAGCTTTCTACAGCCACCAATC
 CACAGAATGGCCTCTCCAGATCCTGAGGCTTGTGCTGCAAGAGCTGAGTCTGTTCTACAGCAGAGATGT
 GAATGGAGTGTGTCTTGTACGATCTCCTCCACTCGCCGTGGCTTCAGGCTCTGCTAAAGATTTATGAC
 TGCCTCCAGGAATTTAAAGAAAAGAACTAGTTCTGCCACACCACATGCACAGGTGTTATCCTATGAGG
 TAGTGGAGTTATTACGTGAAACCCCTACTTCCCCTGAGATCCAAGAGCTGAGACAAATGCTCCAGGCTCC
 ACACCTCAAGGCCTTGCTCAGTGGCCATGACACGATAGCTCAGAAAGATTTTGAACCCCTTCTCCCTCCA
 CTGCCAGACAATATCCCTGAGAGTGAGGAAGCAATGAGGATTGTTGTTTGTAGTAAAAACCAACAGCCCC
 TGGGAGCCACCATCAAGCGCCACGAGATGACAGGGGACATCTTGGTGGCCAGGATCATCCACGGTGGCT
 GCGGAGAGAAGTGGTTGCTATATGCTGGAGACAACTGGTAGAAGTGAATGGAGTTTCAGTTGAGGGA
 CTGGACCTGAACAAGTATCCATATTCTGGCCATGTCTCGAGGCACAATCATGTTCAAGGTGGTTCCAG
 TCTCTGACCCCTCTGTGAATAGCCAGCAGATGGTGTACGTCCGTGCCATGACTGAGTACTGGCCCCAGGA
 GGATCCCGACATCCCCTGCATGGACGCTGGATTGCCTTTCCAGAAGGGGGACATCCTCCAGATTGTGGAC
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 CAAGTCAACCTTATCAATTTCTATGGAAGAAGAAGATGACATGAAGATTGATGAGAAATGTGTGGAAGCA
 GATGAAGAAACATTTGAATCTGAGGAACCTTTCAGAAGACAAGGAGGAGTTTGTGGCTACGGTCAGAAGT
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 TCCTTGTGCAAGGAAAGATCTGTGTCATGGACCTAGAGCCTCAGGATATTCAAGGGGTCGAACCCATGA
 ACTGAAGCCCTATGTCATATTTATAAGCCATCGAATATGAGGTGTATGAAACAATCTCGGAAAAATGCC
 AAGGTTATTACTACTATGTGGACATGAAGTTCAAGGATGAAGACCTACAAGAGATGGAAAAATTAG
 CCCAAAGAAATGGAAGTCAAGTTTGGCCAAATTTTTTGATCATGTGATTGTGAATGACAGCTTGCACGATGC
 ATGTGCCAGTTGTTGTCTGCCATACAGAAGGCTCAGGAGGAGCCTCAGTGGGTACCAGCAACATGGATT
 TCCTCAGATACTGAGTCTCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

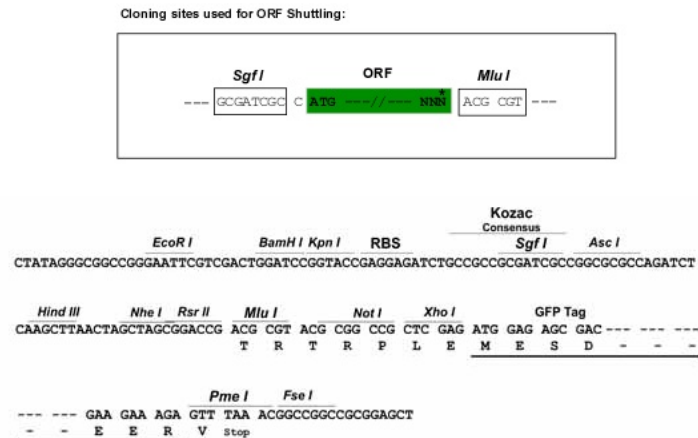
>RG219980 representing NM_033066
 Red=Cloning site Green=Tags(s)

MIQSDKGADPPDKMKLSTATNPQNGLSQILRLVLQELSLFYSRDVNGVCLLYDLLHSPWLQALLKIYD
 CLQEFKEKKLVPAATPHAQVLSEYVVELLRETPTSPEIQELRQMLQAPHFKALLSAHDTIAQKDFEPLPP
 LPDNIPESEEAMRIVCLVKNQQLGATIKRHEMTGDILVARIHGGLAERSGLLYAGDKLVEVNGVSVEG
 LDPEQVIHILAMSRGTIMFKVVPVSDPPVNSQQMVYVRAMTEYWPQEDPDIPCMDAGLPFQKGDILQIVD
 QNDALWWQARKISDPATCAGLVPSNHLKRRKQREFWWSQPYQPHTCLKSTLSISMEEDDMKIDEKCEVA
 DEETFESEELSEDKEEFVGYGQKFFIAGFRRSMRLCRRKSHLSPLHASVCCTGSCYSAVGAPYEEVVRQ
 RRPSPDKYRLIVLMGSPGVGVNELRRQLIEFNPSHFQSAVPHHTTRTKSYEMNGREYHYVSKETFENLIYS
 HRMLEYGEYKGHLYGTSVDAVQTVLVEGKICVMDLEPQDIQGVRTHELKPYVIFIKPSNMRCMKQSRKNA
 KVITDYYVDMKFKDEDLQEMENLAQRMETQFGQFFDHVIVNDSLHDACAQLLSAIQKAQEPEQWPATWI
 SSDTESQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033066

ORF Size: 1911 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_033066.2](#), [NP_149055.1](#)

RefSeq Size: 2435 bp

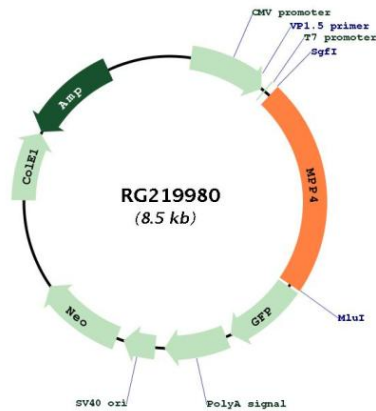
RefSeq ORF: 1914 bp

Locus ID: 58538

UniProt ID: [Q96JB8](#)

Cytogenetics:	2q33.1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) protein family, with an N-terminal PDZ domain, a central src homology 3 region (SH3), and a C-terminal guanylate kinase-like (GUK) domain. The protein is localized to the outer limiting membrane in the retina, and is thought to function in photoreceptor polarity and the organization of specialized intercellular junctions. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219980