

Product datasheet for **MG217753**

Ppm1k (NM_175523) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1k (NM_175523) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppm1k
Synonyms:	2900063A19Rik; A930026L03Rik; PP2Cm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217753 representing NM_175523 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTATCAGCGGCCCTTCATTACTTTGTTGAGAAGTGGTGGGAATCAGGTGAAGAAGAGAGTGTGTTAA
GCTCCATCCTCTGCAGGACCACAGGCAGGCGACTCTGCCTGCTACTTCTCCACTTCAGAGGCCAGGTG
TTCTCGGTTTGATCCAGATGGAAGTGGCAGCCAGCCACTTGGGACAATTTGGGATCTGGGATAACCGC
ATTGATGAGCCAATTCTGCTGCCACCTAGCATCAAGTACGGCAAACCAATCCCAAAATTAGCCTGGAGA
ACGTGGGCTGTGCTCTCTCATTGGCAAACGAAAGAAAACGAAGATCGATTTGGGTTTGCACAGCTGAC
AGAAGAGGTGCTATACTTCGCAGTCTATGATGGACATGGGGGCCCTGCAGCCGCTGACTTCTGTCACACA
CACATGGAGAAATGTGTTATGGATTTGCTTCTCGGGAGAAAGACTTGGAAACTGTCTGACCTTGGCCT
TTCTAGAAATAGATAAAGCCTTCGCGAGTTATGCCACCTGTCTGCAGATGCAAGCCTCCTGACCTCTGG
GACTACTGCAACAGTAGCCCTGTTGAGAGATGGTGTGAACTGGTGGTAGCCAGTGTGGAGACAGCCGG
GCTCTTTGTGTAGAAAAGGAAAACCATGAAGCTGACCACTGACCATACCCAGAAAAGAAAAGATGAGA
AAGAAAGGATCAAGAAATTCGGTGGGTTGTAGCTTGAATAGTTGGGACAGCCCCATGTAATGGCAG
ACTTGAATGACAAGGAGTATCGGAGATTTGGATCTTAAAGCCAGTGGGTAATTGCAGAACCTGAGACA
ACAAGGATTAAGCTCTACCATGCTGACGACAGTTTCTGGTCTTACCACAGATGGGATTAACCTCATGG
TGAATAGTCAAGAGATCTGCGACTTTGTCAACCAAGTCCAGATCCTAAAGAAGCAGCTCATTCCGGTGAC
TGAGCAGGCAATACAGTACGGTACCGAAGACAACAGCACTGCAGTAGTGGTGCCTTTGGTCTTGGGGA
AAATACAAGAACTCTGAAATTACCTTCTCATTACGAGAAAGCTTTGCCTCCAGTGGGAGATGGCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217753 representing NM_175523
 Red=Cloning site Green=Tags(s)

MLSAAFITLLRSGGNQVKKRVLLSSILLQDHRQATPACYFSTSEARCSRFDPDGGSGQPATWDFNGIWDNR
 IDEPILLPPSIKYGKPIPKISLENVGCASLIGKRKENERDFGFAQLTEEVLYFAVYDGHGGPAAADFCHT
 HMEKCVMDLLPREKDLETVLTFLAFLEIDKAFASYAHLSDASLLTSGTTATVALLRDGVELVVASVGD
 SR ALLCRKGGKPMKLTDDHTPERKDEKERIKKFGGFVAWNSLGQPHVNGRLAMTRSIGDLDLKASGVIAEPET
 TRIKLYHADDNFLVLTDDGINFMVNSQEICDFVNQCHDPKEAAHSVTEQAIQYGTEDNSTAVVVPFGAWG
 KYKNSEITFSRSRFASSGRWA

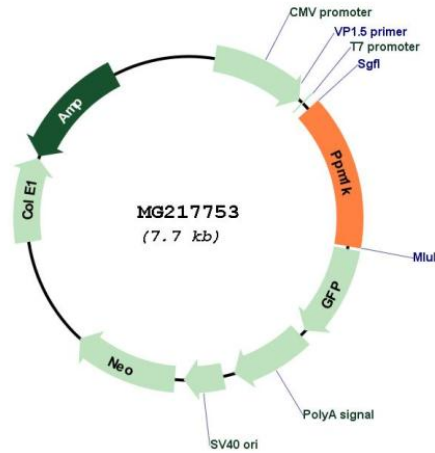
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_175523

ORF Size:	1116 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:	<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_175523.5
RefSeq Size:	5560 bp
RefSeq ORF:	1119 bp
Locus ID:	243382
UniProt ID:	Q8BXN7
Cytogenetics:	6 B3
Gene Summary:	Regulates the mitochondrial permeability transition pore and is essential for cellular survival and development.[UniProtKB/Swiss-Prot Function]