

Product datasheet for **MG220705**

Plpbp (NM_054057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plpbp (NM_054057) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plpbp
Synonyms:	1700024N20Rik; 2200002F22Rik; Prosc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220705 representing NM_054057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGAGAGGTGGCAGCATGACGGCGGAGCTGGGAGTCGGGTTTCGCGCTGCGGGCCGTGAACGAGCGAG
TCCAGCAGAGTGTGGCGCGGCCGCGGGACCTCCCAGCCATCCAACCCGGCTCGTTGCGGTGAGCAA
AACAAAACCTGCAGACATGGTGATCGAGGCCTATGGCCACGGCCAGCGCACTTTTGGAGAGAAGTATGTT
CAGGAAGTACTAGAAAAAGCATCAAACCCTAAGATTCTGTCTTCTGTCCCGAGATCAAGTGGCACTTCA
TTGGTCATTTACAGAAAACAAACGTCAACAACTGATGGCCGTCCCAACCTCTCTATGCTGAAACCGT
AGACTCGGTGAAGCTGGCAGACAAGGTGAATAGCTCCTGGCAGAAGAAAGGTCTACAGAACCAGTGAAG
GTGATGGTCCAGATTAACACCAGCGGAGAGGACAGTAAACACGGCCTGCTGCCTTACAGAGCCATAGCTG
TCGTGGAACACATAAAGGCCAGTTGTCCCAGCCTGGAGTTCGTGGGTCTCATGACCATAGGAAGCTTTGG
ACATGATCTAAGTCAAGGACCAACCCAGACTTCCAGAGGCTGCTGACCTGCGGCGGGAGCTGTGTGAA
AAGCTGGCATTCCGGTGGAGCAGGTGGAATTAGCATGGCATGTCCATGGACTTCCAGCATGCTATTG
AAGTAGGATCTACAAATGTCCGGATAGGGAGCACTATTTTTGGAGAGCGGGACTACTCAAAGAAGCCTGC
CCTAGACAAGACAGCAGACGCGAAGCCCTCAGTACCACTGGTGAAGGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220705 representing NM_054057
 Red=Cloning site Green=Tags(s)

MLRGGSMTAELGVGFALRAVNERVQQSVARRPRDLPAIQPRLVAVSKTKPADMVEAYGHGQRTFGENYV
 QELLEKASNPKILSSCPEIKWHFIGHLQKQNVNKLMAVPNLSMLETVDVSVKLADKVNSSWQKKGPTPLK
 VMVQINTSGEDSKHGLLPSETIAVVEHIKASCPSELEFVGLMTIGSFVGHDLVSGQPNPDFQRLLTLRRELCE
 KLGIPVEQVELSMGMSMDFQHAIEVGSTNVRIGSTIFGERDYSKKPALDKTADAKASVPLVQGH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_054057

ORF Size: 822 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_054057.4](#), [NP_473398.1](#)

RefSeq Size: 3619 bp

RefSeq ORF: 825 bp

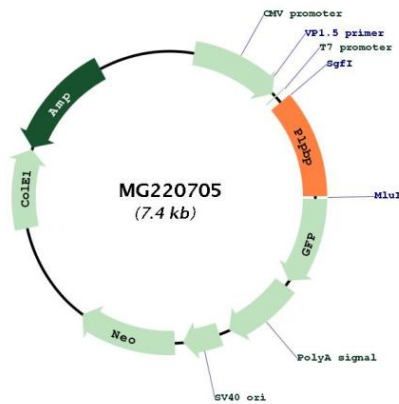
Locus ID: 114863

UniProt ID: [Q9Z2Y8](#)

Cytogenetics: 8 A2

Gene Summary: Pyridoxal 5'-phosphate (PLP)-binding protein, which may be involved in intracellular homeostatic regulation of pyridoxal 5'-phosphate (PLP), the active form of vitamin B6. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220705