

Product datasheet for **RN200931**

Mpp5 (NM_001108034) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpp5 (NM_001108034) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mpp5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200931 representing NM_001108034
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAACATCGTATATGAATGGGCATGTGACAGAGGAATCAGACAGCGGAATAAAAAATCTTGGTCTTG
 CATCACCAGAGGAACATCCGAAACACAGAGAGATGGCTGTTGACTGCCCTGGAGATTTGGGCACCAGATT
 GATGCCAGTGCGAAGAAGTGCACAGTTAGAGCGCATTTCGACAGCAACAGGAGGATATGAGACGTAGGCGT
 GAAGAAGAAGGAAAAAGCAAGAAGCTTACCTAAATTCTCCATGAGACTTAAGAACTAGCTCAAATTC
 CTCCGAAGACTGGAATAGATAACCTATATTTGACACAGAAGAAGGAATTGTTTTAGAAAGTCTCACTA
 TGCTGTGAAAATATTAGAAGTTGAAGACTTGTCTCTTCACTTAAACATATCCAGCACACTTTGGTTGAT
 TCTCAGAGCCAGGAGGATATTTCACTGCTTTACAGCTTGTACAAAATAGAGATTTTCAGAATGCATTCA
 AGATACACAATGCTGTCACAGTGCACATGAACAAGGCCAGCCCTCCGTTTCTCTTATCGCCAATGTACA
 AGACCTTGTACAAGAGGTACAACTGTCTTAAAGCCAGTCCATCAGAAGGAAGGACAAGAATTAAGTCT
 TTGTTAAATGCTCCACATATTCAGGCACCTTTACTGGCCCATGATAAGGTTGCTGAGCAGGAAATGCAGC
 TAGAGCCCATACAGATGAGAGAGTCTATGAAAGTATCGGCCATTATGGGGGAGAACTGTAAAAATAGT
 TCGTATAGAAAAGGCTCGGGATTTCCATTGGGTGCCACGGTTCGTAATGAGATGGATTCTGTCATCATA
 AGTCGGATAGTGAAGGAGGCGCGGCAGAGAAGAGCGGGCTTCTGCACGAAGGAGACGAAGTCTTAGAGA
 TCAATGGCATCGAAATCCGGGGCAAGGACGTCAATGAGTTTTGACTTGTGTCTGATATGCACGGTAC
 GTTGACATTTGTTCTGATTCTAGTCAACAGATCAAGCCTCTCCCGCAAAGAACTGTAACTCACGTG
 AAAGCTCATTTTGACTATGACCCCTCAGATGACCCTTATGTTCCCTGTCGAGAGTTAGGACTGTCTTTTC
 AAAAAGGAGATATACTTCATGTGATTAGTCAAGAAGATCCGAATTGGTGGCAGGCCTATAGAGAAGGAGA
 CGAAGACAATCAGCCTCTAGCTGGACTTGTCCAGGGAAAAGTTTTTCAGCAGCAAAGGGAAGCCATGAAG
 CAAACTATAGAAGAAGATAAGGAGCCAGAAAAATCAGGAAAACTATGGTGTGCAAAGAAGAATAAAAAAGA
 AGAGGAAAAAGGTTTTATATAATGCCAATAAAAAATGATGATTATGACAATGAAGAGATCCTAACGTATGA
 AGAAATGTCACCTTACCATCAGCCAGCAAATAGGAAAAGACCTATCATCTTGATTGGTCCCAGAACTGT
 GGCCAGAAATGAACTGCGCCAGAGACTCATGAACAAAGAAAAGACCGCTTTCATCTGCAGTTCCTCATA
 CAACTCGGAATAGGCGAGACCACGAAGTAGCTGGGAGAGATTACCACTTTGTTTTACGGCAAGCATTGGA
 AGCAGATATAGCAGCTGGCAAGTTCATTGAACATGGTGAATTTGAGAAAACTGTATGGAACCAGCATA
 GATTCTGTACGACAAGTAATCAACTCTGGCAAAATATGTCTTTAAGTCTTCGAGCACAGTCTTGAAGA
 CCTCCGGAATCAGATTTGAAACCATACATCATCTTATTGCACCACCTTCACAAGAGAGACTTCGGGC
 GTTGTTAGCCAAGGAAGGCAAGAACCCTAAAGCCGGAAGAATTAAGGGAGATTATTGAGAAGCAGAGAGAG
 ATGGAACAGAACAACGGCCACTACTTCGACACTGCGATTGTGAATTCAGATCTTGATAAAGCCTATCAGG
 AACTGCTTAGGCTTATTAACAACTGGACACCGAGCCTCAGTGGTGCCATCCACCTGGCTAAGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001108034
- Insert Size:** 2028 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001108034.1](#), [NP_001101504.1](#)

RefSeq Size: 2703 bp

RefSeq ORF: 2028 bp

Locus ID: 314259

UniProt ID: [B4F7E7](#)

Cytogenetics: 6q24

Gene Summary: Plays a role in tight junction biogenesis and in the establishment of cell polarity in epithelial cells (By similarity). Also involved in adherens junction biogenesis by ensuring correct localization of the exocyst complex protein EXOC4/SEC8 which allows trafficking of adherens junction structural component CDH1 to the cell surface (By similarity). Plays a role through its interaction with CDH5 in vascular lumen formation and endothelial membrane polarity (By similarity). Required during embryonic and postnatal retinal development (By similarity). Required for the maintenance of cerebellar progenitor cells in an undifferentiated proliferative state, preventing premature differentiation, and is required for cerebellar histogenesis, fissure formation and cerebellar layer organization (By similarity). Plays a role in the radial and longitudinal extension of the myelin sheath in Schwann cells (By similarity). May modulate SC6A1/GAT1-mediated GABA uptake by stabilizing the transporter (By similarity). May play a role in the T-cell receptor-mediated activation of NF-kappa-B (By similarity). Required for localization of EZR to the apical membrane of parietal cells and may play a role in the dynamic remodeling of the apical cytoskeleton (By similarity). Required for the normal polarized localization of the vesicular marker STX4 (By similarity). Required for the correct trafficking of the myelin proteins PMP22 and MAG (PubMed:20237282).
[UniProtKB/Swiss-Prot Function]