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Product datasheet for MC203712

Ppp1cc (NM_013636) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1cc (NM_013636) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppp1cc
Synonyms:	dis2m1; PP-1G; PP1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC010613
GCAGCGGCGCCGCCGCTGCTGCTGCTGCTGCGGGAGGGTCGGCGGCGGGACGGCGATGGCGGATATCGAC
AAACTCAACATCGACAGCATCATCCAACGGCTGCTGGAAGTGAGAGGGTCCAAGCCAGGCAAGAATGTCC
AGCTCCAGGAGAACGAGATCCGAGGACTCTGCCTGAAGTCTCGGGAGATCTTCCTCAGTCAGCCTATCCT
TTTAGAACTTGAAGCACCACTCAAGATATGTGGTGACATCCACGGGCAGTACTATGATTTGCTCCGTCTG
TTTGAATACGGTGGCTTTCCTCCAGAGAGCAACTATTTGTTTCTCGGGGACTATGTGGACAGGGGCAAGC
AGTCCCTGGAGACAATCTGCCTCTTGCTGGCCTACAAAATCAAGTATCCGGAGAACTTCTTTCTTCTCAG
AGGGAACCACGAGTGCGCCAGCATCAATAGGATCTACGGATTTTATGATGAGTGTAAAAGAAGATACAAC
ATTAAGCTGTGGAAAACGTTCACAGACTGTTTTAACTGCTTGCCGATAGCAGCCATCGTGGACGAGAAGA
TATTCTGCTGTCATGGAGGTTTATCACCAGATCTTCAATCTATGGAGCAGATTCGGCGAATTATGAGACC
AACTGATGTACCAGATCAAGGTCTTCTTTGTGATCTTTTGTGGTCTGACCCCGATAAAGATGTCTTAGGC
TGGGGTGAAAATGACAGAGGAGTGTCCTTCACATTTGGTGCAGAAGTGGTTGCAAAATTTCTCCATAAGC
ATGATTTGGATCTTATATGTAGAGCCCATCAGGTGGTTGAAGATGGCTATGAGTTTTTTGCAAAGAGGCA
GTTAGTCACTCTGTTTTCTGCACCCAACTACTGTGGCGAGTTTGACAATGCAGGCGCCATGATGAGTGTG
GATGAGACCCTCATGTGTTCCTTCCAGATTTTAAAGCCTGCAGAGAAAAAGAAGCCCAACGCCACGAGAC
CTGTCACACCACCACGGGGTATGATCACAAAGCAAGCAAAGAAATAGATGTCACTTGACACTGCCTGGTT
GGGACTTGTAACATAGCGTTCATAACCTTCCTTTTTAAACTGTGATGTGCTGGTCAGCTTGCCCAGGTAG
ACCTGTCTGTCGGGCCCTCCTCCATTTGATTACTGCTGGCACTTGCTGGTTATAGCAGCAAGCCAAGCAC
TTCATTCTCAAGAGAGCATTTTGTTTTGAACCTCTGTTCCCTTTGTGGACAGCTCTGATGATGGTGTTAA
GCTGTACACCCTGGCAGGTTATCCTGTCTGAGGAGAAAGTGTACAATTGATCTTTTTTTAATTTAGTATA
AGTCATGAATAATGTAAATGCCTGTTTTCTTTAGGATATAAAGAGAGCCTTAGAGTGCGTGAGTCTCTAC
ATGTAATTGTCATAAATGCATTCTGTTGATACAAACCACTGTGAACAATTTTTTTTCCAGTTTGTTTGAA
AGGGACTGCTTTCCCTCATTGTCTTGTCATGTACAAACTAGTGTCTGCAGCTGTGGCAGCAGGAGTGACC
TGCCTGCCGCCAGCCCTGCCCAGACTATCTGAAGCACACTCCTTCCCACTGCACATTTAATAATGATTAA
AGCCATTCTTTTCAATGTCTGTGATTCCTTCCTAAAGCCAAAGTTTCTGTTGGACTGTATGGCACGCCCT
GGGGATGAGGTGGCCAGGGCATCGAGGCTGCGTGCGCAGGCCGCCTCCCTCCGTGGGGCCTCAGAAGCAG
GTTATTTTAACTAGCAATAGTGGTATAGTGCTGAGTAAGCTATTAATGATGGAAGTTAATGACACTTTGT
ACAGTTCCCATATAGTCTATTCACTGAGTGATCTTTTTACAGTTGGATCAGGCCTGAACCCGTCCATTCA
GAAAGCTTCAAATTATAGAAACAACACTGTCCTATACGAGTGACCGATAATGCTTTCTTTGGCTACATTC
TTTATTCTGCGGTGACATTGAGGCTTATAAATCAAAAGGAACTAACTTGCCGTCCACCGGTTTATACAGA
ACTCACAGTATCTATGACTTTTTTAAACTACGACCTGTTAAATGAATCTGTTTGCACAGATGCCCGTGTA
CAATGCCATGTGCTGAGAATGGTTTCAGACTTATTAAATGCAAGCTTGTTAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_013636

Insert Size: 972 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:	BC010613, AAH10613
RefSeq Size:	2166 bp
RefSeq ORF:	972 bp
Locus ID:	19047
UniProt ID:	P63087
Cytogenetics:	5 F
Gene Summary:	Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Dephosphorylates RPS6KB1. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E.[UniProtKB/Swiss-Prot Function]