

Product datasheet for MC207815

Ppif (NM_134084) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppif (NM_134084) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppif
Synonyms:	AW457192; CyP-D; CyP-F; CypD; PPIase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207815 representing NM_134084 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAGCGCTGCGTTGCGGCCCGCCTGCTCGGTCTGCTCTCCGGCCCGCTCCGCGCCGCTGCTCC
TCTCCGACCCGTACCTGCAGCGACGGCGGAGCCCGCGCGCAACTTCTCCGGGAACCCGCTCGT
GTACTTGGACGTGGCGCCGATGGACAGCCGCTCGGCCGCTGGTGTGGAGTTAAAGGCAGATGTCGTG
CCAAAGACTGCAGAGAACTTCAGAGCCCTATGCACTGGTGAAGGGCTTTGGCTACAAAGGCTCCACCT
TCCACAGGTGATCCCAGCCTTCATGTGCCAGGCTGGCGACTTACCAACCACAATGGCACAGGAGGGAG
GTCCATCTACGGAAGCCGCTTCCCGACGAGAATTCACACTGAAGCATGTGGGGCCAGGTGTCCTGTCC
ATGGCGAACGCAGGCCCAACACCAATGGCTCTCAGTTCTTTATCTGCACGATAAAGACAGACTGGCTAG
ATGGCAAGCATGTCGTGTTCCGCCATGTCAAAGAGGGCATGGATGTTGTGAAGAAAATAGAATCTTTCGG
CTCAAAAAGTGGGAAGACGTCTAAGAAGATTGTCATCACAGACTGTGGCCAGTTGAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_134084
Insert Size:	621 bp



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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:	<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:	<u>NM_134084.1, NP_598845.1</u>
RefSeq Size:	1560 bp
RefSeq ORF:	621 bp
Locus ID:	105675
UniProt ID:	<u>Q99KR7</u>
Cytogenetics:	14 A3
Gene Summary:	PPlase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding. Involved in regulation of the mitochondrial permeability transition pore (mPTP). It is proposed that its association with the mPTP is masking a binding site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP leading to apoptosis or necrosis; the requirement of the PPlase activity for this function is debated. In cooperation with mitochondrial TP53 is involved in activating oxidative stress-induced necrosis. Involved in modulation of mitochondrial membrane F(1)F(0) ATP synthase activity and regulation of mitochondrial matrix adenine nucleotide levels. Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis.[UniProtKB/Swiss-Prot Function]