

Product datasheet for **MC211346**

Hpf1 (NM_028299) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpf1 (NM_028299) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hpf1
Synonyms: 2700029M09Rik; C4orf27; C230006B22Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211346 representing NM_028299
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGGCGGTGGCGGAAGCGCCGGACGGCCGGGGCGGGACCGCAGTGTGAAAAGACAGTTGAGGTGA
AGAAGAGTAAGTTTTCTGAGGCTGATGTCTCCAGTGACCTTCGAAAAGAAGTGAAAATCTTTATAAGCT
TTCAGTGCCTGAAGATTTCTATCATTTCTGGAAGTTCTGTGAAGAGCTTGATCCTGAAAAGCCAGCTGAT
GCGCTTGCCACAAGCCTGGGTCTTCGGTTAGTGGTCTTATGATATCCTTGCTGGGAAACATAAAATGA
AGAAAAACCCACAGGCTTGAAGTGAATCTTCACTGGAGTTTTACTATGACCCCTCTGAGTCCAGAC
CATTATTATTGGAGATAATAAACTCAGTACCACATGGGGTATTTAGGGATTCTCTGATGAAGTTCCT
GTATACGTGGGTACAAATGAAGCAAAGAAAAATTTGATAATTATCAAAATGGAGACAATGTGTTTGCTG
CCATCAAATTATTTTAAATGAAAAACTCAAAGAAGTAACAGATAGAAAGAAAATAGCATTTTGAAAA
CATAGATGAAAAACTCACAGAAGCAGCCAGAAAAGTAACTAGGATACTCACTGGAACAGAGAACCGTGAAGATG
AGACAGAGAGATAAGAAGTTGTGACAAAGACTTTTCATGGTGCAGGCTTGGTTGTTCCAGTAGATAAAA
ATGATGTTGGTTACCGAGAGCTCCCTGAAACAGATGCTGACCTTAAGAGAATCTGCAAGGCAGTTGTCGA
CGCTGCAAGCGACGAGGAGAGACTGAAAGCATTGCTCCATTCAGGAGATGATGACTTTTGTGCAGTTT
GCTAATGATGAGTGTGATTATGGCATGGGGCTGGAATTAGGAATGGACCTCTTTGCTATGGCTCTCATT
ATTTTCACAAAGTTGCTGGTCAGCTTTTACCTCTTGCATATAATCTATTGAAGAGGGATCTGTTGCAAA
AATTATTGAAGATCATCTGGCAAGCAGAAGTGAAGAGAACATAGACCAGCTTGCAGGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_028299



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Insert Size:	1041 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:	<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_028299.1 , NP_082575.1
RefSeq Size:	1210 bp
RefSeq ORF:	1041 bp
Locus ID:	72612
UniProt ID:	Q8CFE2
Cytogenetics:	8 B3.1
Gene Summary:	Acts as a cofactor for serine ADP-ribosylation by conferring serine specificity on PARP1 and PARP2: interacts with PARP1 and PARP2 and is able to change amino acid specificity toward serine. Promotes histone serine ADP-ribosylation in response to DNA damage, limiting DNA damage-induced PARP1 hyper-automodification, and ensuring genome stability. Serine ADP-ribosylation of proteins constitutes the primary form of ADP-ribosylation of proteins in response to DNA damage. HPF1 also promotes tyrosine ADP-ribosylation, probably by conferring tyrosine specificity on PARP1.[UniProtKB/Swiss-Prot Function]