

## Product datasheet for MR206139

### Hpd (NM\_008277) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hpd (NM_008277) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hpd
Synonyms:	4HPPD; Fla; Flp; Hppd; Laf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206139 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGACAACCTACAACAACAAAGGACCAAGCCTGAGAGAGGCCGGTTCTCCATTTCCACTCGGTGACCT  
TCTGGGTTGGCAATGCCAAGCAGGCTGCTTCTTCTACTGCAACAAGATGGGCTTTGAACCTCTGGCCTA  
CAGGGGCTAGAGACTGGCTCCCGGGAGGTAGTCAGCCACGTATCAAGCAAGGGAAAATGTGTTTGT  
CTCTGCTCTGCTCAATCCCTGGAACAAAGAGATGGGCGACCACTTGGTGAAGCATGGCGACGGGTGA  
AAGACATCGCATTGAGGTGGAAGACTGCGACCACATTGTGCAGAAAGCTCGAGAACGGGGCGCCAAAAT  
TGTGCGGGAGCCATGGGTGGAGCAAGACAAATTTGGGAAGGTGAAGTTTGTCTGTGCTGCAGACGTATGGA  
GATACCACACACACCCTGGTGGAGAAGATCAACTACACTGGCCGTTTCTTACCTGGATTCGAGGCCCCAA  
CATAACAAGGATACCCTGCTTCCAAAACCTACCCAGATGTAACTTGAGATCATTGACCACATTGTAGGCAA  
CCAACCCGACCAAGAAATGCAGTCTGCCTCAGAATGGTACCTGAAAAACCTGCAGTTCCACCGGTTCTGG  
TCCGTGGACGACACGCAGGTGCACACGGAGTACAGCTCTTGGCGTCCATTGTGGTGACCAACTACGAGG  
AATCCATCAAAAATGCCATCAACGAGCCAGCTCCGGGCAGGAAGAAGTCTCAGATCCAGGAATATGTGGA  
CTATAATGGGGGTGCTGGGTCCAGCACATCGCTCTCAAGACGGAAGACATCATCACAGCAATCCGCCAC  
TTGAGGAGCGAGGCACGGAGTTCTTGGCCGCCCATCTTCTTACTACAAACTGCTTCGGGAGAATCTCA  
AGTCAGCCAAGATCCAGGTGAAAGAGAGCATGGACGTCCTGGAGGAGCTGCATATCCTAGTCGACTATGA  
CGAGAAAGGCTACCTCCTACAGATCTTACCAAGCCCATGCAGGACCGGCCACACTCTTCTGGAAGTC  
ATTCAACGTACAAACCACAGGGCTTTGGAGCGGGCAACTTCAACTCTCTGTTCAAGGCTTCGAGGAGG  
AGCAAGCCCTACGGGCAACCTCACTGACCTGGAGCCCAATGGTGTGAGGTCTGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206139 protein sequence  
 Red=Cloning site Green=Tags(s)

MTTYNNKGPKPERGRFLHFHSVTFWVGNKQAASFYCNKMGFEPLAYRGLTGSREVVSHVIKQGGKIVFV  
 LCSALNPWNKEMGDHLVKHGDGVKDIAFEVEDCDHIVQKARERGAKIVREPWVEQDKFGVKVFAVLQTYG  
 DTHTLVEKINYTGRFLPGFEAPTYKDTLLPKLPRCNLEIIDHIVGNQPDQEMQSASEWYLNQLQFHRFW  
 SVDDTQVHTEYSSLRSIVVTNYEESIKMPINEPAPGRKKSQIQEYVDYNGGAGVQHIALKTEDIITAIRH  
 LRERGTEFLAAPSSYYKLLRENLKSAKIQVKESMDVLEELHILVDYDEKGYLLQIFTKPMQDRPTLFLEV  
 IQRHHNQGFAGNFSLFKAFAEEEQALRGNLTDLEPNGVRSGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008277

**ORF Size:** 1182 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\\_008277.3](#)

**RefSeq Size:** 1408 bp

**RefSeq ORF:** 1182 bp

**Locus ID:** 15445

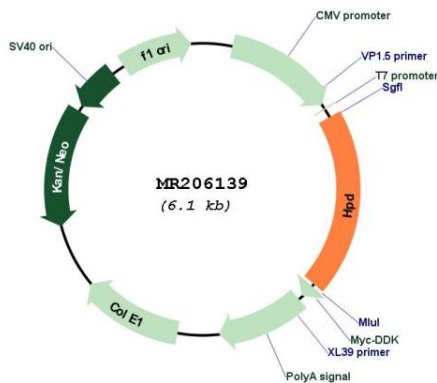
**UniProt ID:** [P49429](#)

**Cytogenetics:** 5 62.82 cM

**MW:** 45.1 kDa

**Gene Summary:** Key enzyme in the degradation of tyrosine.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206139