

Product datasheet for **MG206139**

Hpd (NM_008277) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpd (NM_008277) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hpd
Synonyms:	4HPPD; Fla; Flp; Hppd; Laf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206139 representing NM_008277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAACCTACAACAACAAAGGACCAAGCCTGAGAGAGGCCGGTTCTCCATTTCCACTCGGTGACCT
TCTGGGTTGGCAATGCCAAGCAGGCTGCTTCTTCTACTGCAACAAGATGGGCTTTGAACCTCTGGCCTA
CAGGGGCTAGAGACTGGCTCCCGGGAGGTAGTCAGCCACGTATCAAGCAAGGGAAAATTTGTGTTGTT
CTCTGCTCTGCTCAATCCCTGGAACAAAGAGATGGGCGACCACTTGGTGAAGCATGGCGACGGGGTGA
AAGACATCGCATTGAGGTGGAAGACTGCGACCACATTGTGCAGAAAGCTCGAGAACGGGGCGCCAAAAT
TGTGCGGGAGCCATGGGTGGAGCAAGACAAATTTGGGAAGGTGAAGTTTGTCTGTGCTGCAGACGTATGGA
GATACCACACACACCCTGGTGGAGAAGATCAACTACACTGGCCGTTTCTTACCTGGATTGAGGCCCCAA
CATAAAGGATACCCTGCTTCCAAAACCTACCCAGATGTAACTTGAGATCATTGACCACATTGTAGGCAA
CCAACCCGACCAAGAAATGCAGTCTGCCTCAGAATGGTACCTGAAAAACCTGCAGTTCCACCGGTTCTGG
TCCGTGGACGACACGCAGGTGCACACGGAGTACAGCTCTTGGCGTCCATTGTGGTGACCAACTACGAGG
AATCCATCAAAAATGCCCATCAACGAGCCAGCTCCGGGCAGGAAGAAGTCTCAGATCCAGGAATATGTGGA
CTATAATGGGGGTGCTGGGGTCCAGCACATCGCTCTCAAGACGGAAGACATCATCACAGCAATCCGCCAC
TTGAGGAGCGAGGCACGGAGTTCTTGGCCGCCCATCTTCTTACTACAAACTGCTTCGGGAGAATCTCA
AGTCAGCCAAGATCCAGGTGAAAGAGAGCATGGACGTCCTGGAGGAGCTGCATATCCTAGTCGACTATGA
CGAGAAAGGCTACCTCCTACAGATCTTACCAAGCCCATGCAGGACCGGCCACACTCTTCTGGAAGTC
ATTCAACGTACAAACCACAGGGCTTTGGAGCGGGCAACTTCAACTCTCTGTTCAAGGCTTCGAGGAGG
AGCAAGCCCTACGGGCAACCTCACTGACCTGGAGCCCAATGGTGTGAGGTCTGGAATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206139 representing NM_008277
 Red=Cloning site Green=Tags(s)

MTTYNNKGPKEGRFLHFHSVTFWVGNKQAASFYCNKMGFEPLAYRGLTGSREVVSHVIKQGGKIVFV
 LCSALNPWNKEMGDHLVKHGDGVKDI AFEVEDCDHIVQKARERGA KIVREPWVEQDKFGKVKFAVLQTYG
 DTHTLVEKINYTRFLPGFEPTYKDTLLPKLPRCNLEIIDHIVGNQPDQEMQSA SEWYLNKLFHFRFW
 SVDDTQVHTEYSSLRSIVVTNYEESIKMPINEPAPGRKKSQIQEYVDYNGGAGVQHIALKTEDIITAIRH
 LRERGTEFLAAPSSYYKLLRENLSAKIQVKESMDVLEELHILVDYDEKGYLLQIFTKPMQDRPTLFLEV
 IQRHHQGFAGNFNSLFKAFEEEEQALRGNLTDLEPNGVRSGM

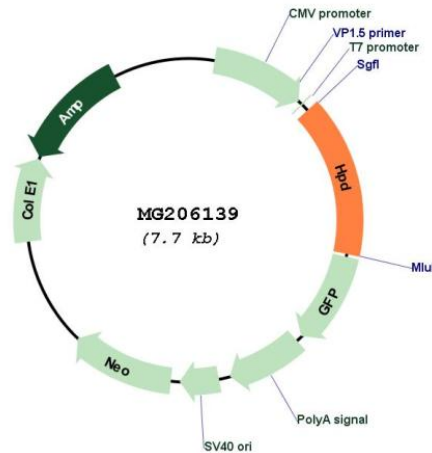
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008277

ORF Size:	1179 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:	<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_008277.3
RefSeq Size:	1432 bp
RefSeq ORF:	1182 bp
Locus ID:	15445
UniProt ID:	P49429
Cytogenetics:	5 62.82 cM
Gene Summary:	Key enzyme in the degradation of tyrosine.[UniProtKB/Swiss-Prot Function]