

Product datasheet for **RG206860**

HPD (NM_002150) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPD (NM_002150) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HPD
Synonyms:	4-HPPD; 4HPPD; GLOD3; HPPDASE; PPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206860 representing NM_002150 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGACTTACAGTGACAAAGGGGCAAAGCCTGAGAGAGGCCGATTCCCTCCACTTCCACTCTGTGACCT
TCTGGGTTGGCAACGCCAAGCAGGCCGCGTCATTCTACTGCAGCAAGATGGGCTTTGAACCTTAGCCTA
CAGGGGCTGGAGACCGGTTCCCGGGAGGTGGTCAGCCATGTAATCAAACAAGGGAAGATTGTGTTTGT
CTCTCCTCAGCGCTCAACCCCTGGAACAAAGAGATGGGCGATCACCTGGTAAAACACGGTGACGGAGTGA
AGGACATTGCGTTCGAGGTGGAAGATTGTGACTACATCGTGCAGAAAGCACGGGAACGGGGCGCCAAAAT
CATGCGGGAGCCCTGGGTAGAGCAAGACAAGTTTGGGAAGGTGAAGTTTGTCTGTGCTGCAGACGTATGGG
GACACCACACACCCCTGGTGGAGAAGATGAACTACATCGGCCAATTCTTGCCTGGATATGAGGCCCCAG
CGTTTATGGACCCCTACTTCTAAACTGCCAAATGCAGTCTGGAGATGATCGACCACATTGTGGGAAA
CCAGCCTGATCAGGAGATGGTGTCCGCCTCCGAATGGTACCTGAAAAACCTGCAGTTCCACCGCTTCTGG
TCCGTGGATGACACGCAGGTGCACACGGAATATAGCTCTCTGCGATCCATTGTGGTGGCCAACTATGAAG
AGTCCATCAAGATGCCCATCAATGAGCCAGCGCCTGGCAAGAAGAAGTCCCAGATCCAGGAATATGTGGA
CTATAACGGGGGCGCTGGGGTCCAGCACATCGCTCTCAAGACCGAAGACATCATCACAGCGATTCCGCCAC
TTGAGAGAGAGAGCCTGGAGTTCTTATCTGTTCCCTCCACGTAACAACAACCTGCGGGGAGAAGCTGA
AGACGGCCAAGATCAAGGTGAAGGAGAACATTGATGCCCTGGAGGAGCTGAAAATCCTGGTGGACTACGA
CGAGAAAGGCTACCTCCTGCAGATCTTACCAAACCGGTGCAGGACCGGCCACGCTCTTCTGGAAGTC
ATCCAGCGCCACAACCACAGGGTTTTGGAGCCGCAACTTCAACTCACTGTTCAAGGCTTTGAGGAGG
AGCAGAACCTGCGGGTAACCTACCAACATGGAGACCAATGGGGTGGTGCCTGGCATG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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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_002150.2](#), [NP_002141.1](#)

RefSeq Size: 1440 bp

RefSeq ORF: 1182 bp

Locus ID: 3242

UniProt ID: [P32754](#)

Cytogenetics: 12q24.31

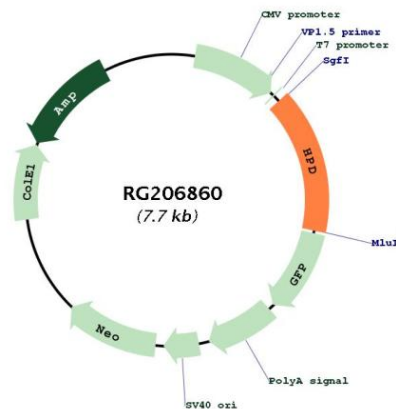
Domains: Glyoxalase

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism, Ubiquinone and other terpenoid-quinone biosynthesis

Gene Summary: The protein encoded by this gene is an enzyme in the catabolic pathway of tyrosine. The encoded protein catalyzes the conversion of 4-hydroxyphenylpyruvate to homogentisate. Defects in this gene are a cause of tyrosinemia type 3 (TYRO3) and hawkinsinuria (HAWK). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG206860