

Product datasheet for SC328566

HPD (NM_001171993) Human Untagged Clone

Product data:

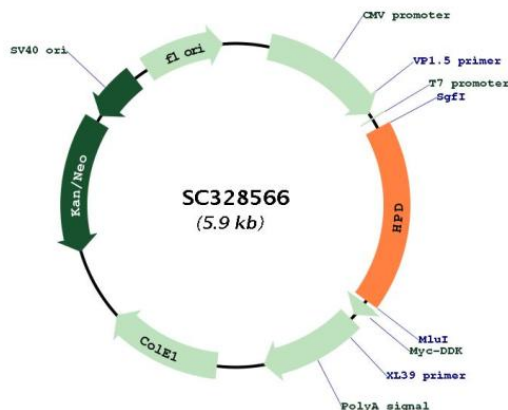
Product Type:	Expression Plasmids
Product Name:	HPD (NM_001171993) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPD
Synonyms:	4-HPPD; 4HPPD; GLOD3; HPPDASE; PPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328566 representing NM_001171993. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCTTTGAACCTCTAGCCTACAGGGGCTGGAGACCGGTTCCCGGGAGGTGGTCAGCCATGTAATC
AAACAAGGAAGATTGTGTTTGCCTCTCCTCAGCGCTCAACCCCTGGAACAAAGAGATGGGCGATCAC
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GCCCTGGAGGAGCTGAAAATCCTGGTGGACTACGACGAGAAAGGCTACCTCCTGCAGATCTTCACCAAA
CCGGTGCAGGACCGGCCACGCTCTTCTGGAAGTCATCCAGCGCCACAACCACAGGTTTTGGAGCC
GGCAACTTCAACTCACTGTTCAAGGCTTTCGAGGAGGAGCAGAACCCTGCCGGGTAACTCACCAACATG
GAGACCAATGGGGTGGTCCCGGCATGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001171993

Insert Size: 1065 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001171993.1](#)

RefSeq Size: 1916 bp

RefSeq ORF: 1065 bp

Locus ID: 3242

UniProt ID:	<u>P32754</u>
Cytogenetics:	12q24.31
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism, Ubiquinone and other terpenoid-quinone biosynthesis
MW:	40.5 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.</p>