

Product datasheet for **RR210564**

Hpd (NM_017233) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpd (NM_017233) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hpd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210564 representing NM_017233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACAACCTACAGCAACAAAGGACCAAGCCCTGAGAGAGGCCGGTTCCTCCATTTCCACTCTGTGACCT
TCTGGGTTGGCAACGCCAAGCAGGCTGCCTCCTTCTATTGCAACAAGATGGGCTTCGAACCGCTGCCTCA
CAAGGGCTGGAGACGGGCTCCCGGAGGTGGTCAGTCATGTCATCAAGCAAGGAAAATGTGTTTGT
CTCTGCTCTGCTCAATCCCTGGAACAAAGAGATGGGTGACCACCTGGTGAAGCATGGTATGGCGTAA
AGGACATCGCATTGAGGTGGAAGACTGTGAACACATTGTGCAGAAAGCCCGAGAACGGGGCGCTAAAAT
TGTACGGGAGCCATGGGTGGAGGAAGACAAATTCGGGAAGGTGAAGTTCGCTGTGCTGCAGACGTATGGA
GATACCACGCACACCCTGGTGGAGAAGATCAACTACACCGGTCGTTTCTTACCTGGATTCGAGGCCCCAA
CATACAAGGACACCCTACTTCCAAAACACCCAGCTGTAACCTGGAGATCATCGACCATATTGTAGGCAA
CCAGCCCGACCAGGAAATGGAGTCTGCCTCAGAATGGTACCTGAAAAACCTGCAGTTCACCCGGTCTGG
TCTGTAGACGACACAGGTGCACACGGAGTATAGCTCTCTGCGCTCCATCGTGGTGGCCAACTATGAGG
AGTCCATCAAAAATGCCATTAATGAACCGCCCGGGCAGGAAGAAGTCTCAGATCCAGGAATATGTGGA
CTATAATGGGGTGTGGGGTCCAGCACATCGCTCTCAGGACCGAAGACATCATCAACGATCCGCCAC
TTGAGGGAACGAGGCATGGAGTCTTGGCTGTCCCGTCTTCTTACTACAGACTGCTTCGGGAGAATCTCA
AGACCTCCAAGATCCAAGTGAAGGAGAACATGGATGTCTTGGAGGAGCTAAAAATCCTGGTAGACTACGA
TGAGAAAGGCTACCTCCTACAGATCTTCAACAAGCCCATGCAGGACCGGCCACGCTCTTCTTGGAAATC
ATCCAACGCCACAACCACAGGGCTTGGAGCAGGTAACCTCAACTCTCTGTTCAAAGCTTTCGAAGAGG
AGCAAGCCCTACGGGTAACCTCACTGACCTGGAGACCAACGGTGTGAGGTCTGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210564 representing NM_017233
Red=Cloning site Green=Tags(s)

MTTYSNKGPKPERGRFLHFHSVTFWVGNKQAASFYCNKMGFEPLAYKGLTGSREVVSHVIKQGKIVFV
 LCSALNPWNKEMGDHLVKHGDGVKDIAFEVEDCEHIVQKARERGAKIVREPWVEEDKFGVKVFAVLQTYG
 DTTHTLVEKINYTRFLPGFEAPTYKDTLLPKLPSCNLEIIDHIVGNQPDQEMESASEWYLNKLFHFRFW
 SVDDTQVHTEYSSLRSIIVVANYEESIKMPINEPAPGRKKSQIQEYVDYNGGAGVQHIALRTEDIITIRH
 LRERGMFLAVPSSYYRLLRENKTSKIQVKENMDVLEELKILVDYDEKGYLLQIFTKPMQDRPTLFLEV
 IQRHHHQGFAGNFNLSLFAFEEEQALRGNLTDLETNGVRSGM

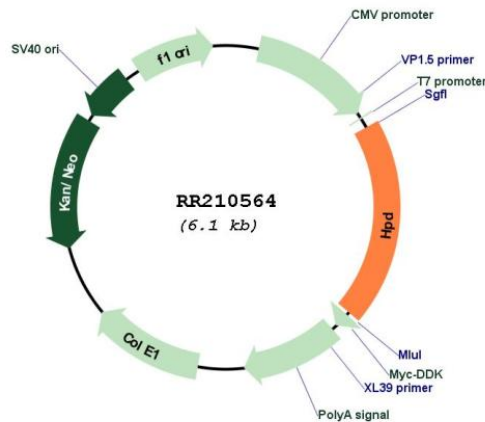
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017233

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_017233.1 , NP_058929.1
RefSeq Size:	1361 bp
RefSeq ORF:	1182 bp
Locus ID:	29531
UniProt ID:	P32755
Cytogenetics:	12q16
MW:	45.1 kDa
Gene Summary:	catalyzes the conversion of 4-hydroxyphenylpyruvate to homogenistate in tyrosine catabolism [RGD, Feb 2006]