

Product datasheet for **RG203550**

HPDL (NM_032756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPDL (NM_032756) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HPDL
Synonyms:	4-HPPD-L; GLOXD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203550 representing NM_032756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCCCGCCCTTCGTTTGTGCCACATCGCCTTCCAGTGCCCGCCGGGCAGCCCTAGCCCGGA
ACCTGCAGCGCCTCTTCGGCTTCCAGCCCTGGCTTCGCGGGAGGTGGACGGCTGGCGGCAGCTAGCCCT
GCGCAGCGGCGACGCGGTCTTTTGGTGAACGAGGGCGCAGGGTCTGGAGAGCCGCTGTACGGCCTGGAT
CCGCGTCACGCCGTGCCAGCGCCACAACTGTGCTTCGACGTGGCGGACGCCGGCGCTGCAACCCGGG
AGCTGGCAGCGCTGGGCTGCAGCGTGCCGTGCCCTCCCGTTTCGCGTGCGGGACGCGCAGGGTGCCGCCAC
TTACGCCGTGGTCAGCTCGCCTGCCGGCATCCTCAGCCTGACCTTGCTGGAGCGCGCTGGCTACCGCGGA
CCCTTCCTACCCGGCTTCAGGCCGTGTCTCTGCGCCTGGCCCCGGGTGGGTACGCCGCGTGGACCACC
TGACCTTGGCCTGCACCCCGGCAGCTCCCCACACTTTTTCGCTGGTTCACGACTGCCTGGGCTTTTG
CCACTTGGCGCTGAGCCAGGTGAGGATCCCGAGCTGGGCCTCGAAATGACAGCAGGGTTTGGGCTTGGG
GGACTGAGGCTTACAGCCCTGCAGGCCAGCCGGGCAGCATTGTCCCACTCTTGTCTGGCTGAGTCCC
TTCCGGGGGCGACGACACGACAGGACAGGTGGAGCAGTTCCTGGCCCGGCACAAGGGGCCAGGCCTGCA
GCACGTGGGGCTGTATACGCCTAACATTGTGGAGGCCACTGAGGGGTGGCAACTGCTGGAGGCCAGTTC
CTGGCTCCCCCTGGGGCATACTACCAGCAGCCAGGAAAGGAGAGGCAGATCCGAGCTCAGGGCAGCAGC
CTCATCTGCTTGTCTCGACAGGGGATCCTGCTAGATGGTGATAAAGGCAAGTTTCTGCTTCAGGTCTTCAC
CAAGTCCCTTTTACTGAGGACACTTTCTCTGAGCTGATTACAGAGCAGGGGCCACTGGCTTTGGT
CAGGGCAACATCAGAGCTCTGTGGCAGTCCGTACAGGAGCAATCTGCCAGGAGCCAGGAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203550 representing NM_032756
 Red=Cloning site Green=Tags(s)

MAAPALRLCHIAFHVPAGQPLARNLQRLFGFQPLASREVDGWRQLALRSGDAVFLVNEGAGSGEPLYGLD
 PRHAVPSATNLCFDVADAGAATRELAALGCSVPVPPVVRDAQGAATYAVVSSPAGILSLTLLERAGYRG
 PFLPGFRPVSSAPGPGWVSVDHLTLACTPGSSPTLLRWFHDCLGFCHLPLSPGEDPELGLEMTAGFGLG
 GLRLTALQAQPGSIVPTLVLAESLPGATTQDQVEQFLARHKGPGLQHVGLYTPNIVEATEGVATAGGQF
 LAPPGAYYQQPGKERQIRAAGHEPHLLARQGILLDGDGKGFLLQVFTKSLFTEDTFFLELIQRQGATGFG
 QGNIRALWQSVQEQSARSQEA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_032756

ORF Size: 1113 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032756.3](#)

RefSeq Size: 1803 bp

RefSeq ORF: 1116 bp

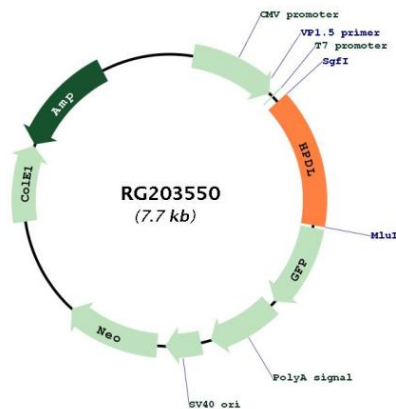
Locus ID: 84842

UniProt ID: [Q96IR7](#)

Cytogenetics: 1p34.1

Gene Summary: The protein encoded by this intronless gene localizes to mitochondria, where it may function as 4-hydroxyphenylpyruvate dioxygenase. Clinical studies have identified several bi-allelic variants in this gene that lower the level of the encoded protein and lead to a clinically variable form of pediatric-onset spastic movement disorder. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RG203550