

Product datasheet for **RG205039**

PIH1D2 (NM_138789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIH1D2 (NM_138789) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIH1D2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205039 representing NM_138789 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACATCCTCAAAAGGTCTGCTTACCCAAGTTACTCAGTTTTGGAACCTCCTAGATGATCTAGCTC
AGAGTGACCCTGAGGGCTATGAGAAGTTTATTCAGCAGCAGCTGAAAGAAGGGAACAGCTCTGTGCTGC
CCCAGAACCACAGCTTTGTCTACAGACCAGGATTCTGAAACCAAAAGAAAAATACTTTTATCAACCTG
TGTCAGTGGACAAGGATCCCAGCTCCCAATCAACCACTCATCCAGTACCTCTAACTGTTGGCAAACAG
AAGATACAACCTGAGATATCAGATGCTTACACAGTCATTGATGTTGCCTACAATCCTGATGTTCTTCATGC
AGCAGAAAAGGACCAAGTGAAGAAAAATCAGTTAATTCAGATGGCCATGAAATGCATTGAGGAGAAATTC
CAGTTCACCTCTCACACTCTTACCATATTACCAATTTAGAATAAAAGGAAGCATTCAAAGAATGAAAC
AAAATCTGATGGGAATCCAACTGATTCCATAGATTTAAGAGAAAAATGAGAAGGGAACCTAACTCTTGG
ACAGATACGAAGCAGTACTATGAGCAATCCAGATCACTTTCCTCAACTGTTACTGCCAAAAGACCAAGTT
TCAGGCAAAGCAGTGTGCTGATAGAAGAGATTCCAGTACTGAAATCCAGGTGGAGATGAAGATGCCAG
CCTATGAACTAAAAATTGTGCATGATCACAGTGAGAAACCTCTGAAAATTGAGTTGAAAGTTGAATTACC
TGGTATTAATTCTGTCTCTCTGTGACCTTAGTGTCTGAGGATGATTTATTGATTGAAGTATCTGAG
AAGTACAGATTACATCTGAATCTTCCAAAACCTATTGATACTGAAATGACCACAGCAAAATTTATCAAAG
AAAAATCCACGCTAATCATCACAATGCCTTTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205039 representing NM_138789
 Red=Cloning site Green=Tags(s)

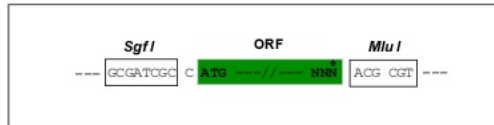
METSSKGLLTQVTQFWNLLDDLAQSDPEGYEKFIQQQLKEGKQLCAAPEPQLCLQTRILKPKEKILFINL
 CQWTRIPAPQSTTHPVPLTVGKPEDTTEISDAYTVIDVAYNPDLHAAEKDQVKKNLIQMAMKCIEEKF
 QFTLSHSYHITKFRIKGSIQRMKQNLMDGIQTDSDILREKMRRELTLGQIRSSTMSNPDHFPQLLLPKDQV
 SGKAVCLIEEISSTEIQVEMKMPAYELKIVHDHSEKPLKIELKVELPGINSVSLCDLSVSEDDLLIEVSE
 KYRLHLNLPKLIDEMTTAKFIEKSTLIITMPLV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGCGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -
 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT
 - - E E R V Stop

ACCN: NM_138789

ORF Size: 945 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_138789.3](#)

RefSeq Size: 1079 bp

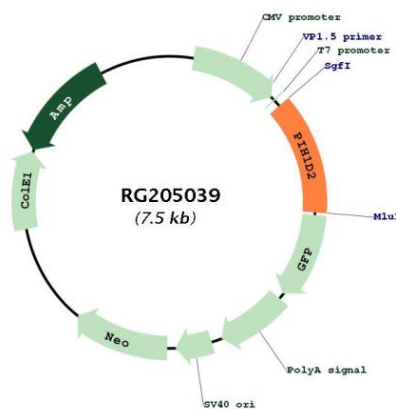
RefSeq ORF: 948 bp

Locus ID: 120379

UniProt ID: [Q8WWB5](#)

Cytogenetics: 11q23.1

Product images:



Circular map for RG205039