

Product datasheet for **RG237072**

Prohibitin (PHB) (NM_001281496) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prohibitin (PHB) (NM_001281496) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prohibitin
Synonyms:	HEL-215; HEL-S-54e; PHB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237072 representing NM_001281496. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTG
AACTCTGCCTTATATAATGTGGATGCTGGGCACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGCAG
GACATTGTGGTAGGGGAAGGGACTCATTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGC
CGTTCTCGACCACGTAATGTGCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTG
CGCATCCTCTCCGGCCTGTCCGACCCAGCTTCTCGCATCTTACCAGCATCGGAGAGGACTATGAT
GAGCGTGTGCTGCCGTCCATCACAACCTGAGATCCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAA
CTAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAGCGACGACCTTACAGAGCGAGCCGCCACCTTT
GGGCTCATCTGGATGACGTGTCCTTGACACATCTGACCTTCGGGAAGGAGTTACAGAAAGCGGTGGAA
GCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGCCAGATTTGTGGTGGAAAAGGCTGAGCAACAGAAA
AAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAACTACTGGCCACT
GCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCTCTCACGC
TCTCGGAACATCACCTACCTGCCAGCGGGCAGTCCGTGCTCTCCAGCTGCCCCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237072
 Blue=ORF Red=Cloning site Green=Tag(s)

MAAKVFESIGKFGALAVAGGVNSALYNVDAGHRAVIFDRFRGVQDIVVGGETHFLIPWVQKPIIFDC
 RSRPRNPVITGSKDLQNVNITLRLFRPVASQLPRIFTSIGEDYDERVLPISITTEILKSVVARFDAGE
 LITQRELVSRQVSDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQK
 KAAIISAEGDSKAAELIANSLATAGDGLIELRKLEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ
 TRTRPLEMESDESGLPAMEIECRITGTLLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001281496

ORF Size: 816 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.

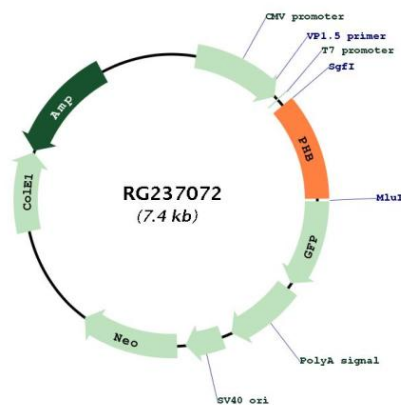
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001281496.1](#), [NP_001268425.1](#)

RefSeq Size: 1919 bp

RefSeq ORF: 819 bp

Locus ID: 5245
UniProt ID: [P35232](#)
Cytogenetics: 17q21.33
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors
MW: 29.8 kDa
Gene Summary: This gene is evolutionarily conserved, and its product is proposed to play a role in human cellular senescence and tumor suppression. Antiproliferative activity is reported to be localized to the 3' UTR, which is proposed to function as a trans-acting regulatory RNA. Several pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:


Circular map for RG237072