

Product datasheet for **SC110973**

Prohibitin (PHB) (NM_002634) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prohibitin (PHB) (NM_002634) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prohibitin
Synonyms:	HEL-215; HEL-S-54e; PHB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002634 edited
 GAATTCGGCAGCAGGGGAATTCATGTGGAGGTCAGAGTGGAAAGCAGGTGTGAGAGGGTCC
 AGCAGAAGGAAACATGGCTGCCAAAGTGTGGAGTCCATTGGCAAGTTTGCCTGGCCTT
 AGCTGTTGCAGGAGGCGTGGTGAACCTCTGCCTTATATAATGTGGATGCTGGGCACAGAGC
 TGCATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGGGGAAGGGACTCATTT
 TCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
 GCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATCCTCTT
 CCGGCCTGTGCCAGCCAGCTTCTCGCATCTTACCAGCATCGGAGAGGACTATGATGA
 GCGTGTGCTGCCGTCCATCACAAGTGCAGTCCCAAGTCAAGTGGTGGCTCGCTTTGATGC
 TGGAGAATAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAGCGACGACCTTACAGA
 GCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACCTTCGG
 GAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGC
 CAGATTTGTGGTGGAAAAGGCTGAGCAACAGAAAAGGCGGCCATCATCTCTGCTGAGGG
 CGACTCCAAGGCAGCTGAGCTGATTGCCAACTCACTGGCCACTGCAGGGGATGGCCTGAT
 CGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCTCTCACGCTCTCGGAA
 CATCACCTACCTGCCAGCGGGCAGTCCGTGCTCCTCCAGCTGCCCCAGTGAGGGCCAC
 CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTT
 CCTTCTGCTCCCACCCAGAAATCACTGTGAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002634 unedited
 GCGTCAGGAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTC
 GTGCCGAATTCGGCACGAGGGGAATTCATGTGGAGGTCAGAGTGGAAAGCAGGTGTGAGAG
 GGTCCAGCAGAAGGAAACATGGCTGCCAAAGTGTGGAGTCCATTGGCAAGTTTGGCCTG
 GCCTTAGCTGTTGCAAGAGGCGTGGTGAAGTCTGCCTTATATAATGTGGATGCTGGGCAC
 AGAGCTGTATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGGGGAAGGGACT
 CATTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGT
 AATGTGCCAGTCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATC
 CTCTCCGGCCTGTCCGACGCCAGCTTCCCTCGCATCTTACCAGCATCGGAGAGGACTAT
 GATGAGCGTGTGCTGCCGTCCATCACAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 GATGCTGGAGAATAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAGCGACGACCTT
 ACAGAGCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACC
 TTCGGGAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCATGAAGCAGAG
 AGGGCCAGATTTGTTGGTGGAAAATGCTGAGNCACAGAAAAGGCGGCCATCATCTGCTG
 NAGGGCGACTCCAGGCAGCTGAGCTGATTGCAACTCACTGGCACTGCAGGGGATGGCCTG
 ATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCTCTAACGCTCTCGG
 GACATCACCTACCTGGCAGCGGGGCATGTCGTGCNTCTNCAGCTGCCCCAGTGAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002634 unedited
 CGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGTGATTTTACCTTTATTT
 CCTTCACTTTAAGCAATCATGAAATTTACAGTGATTTCTGGGTGGGAGCAGAAGGAA
 GGCTGTGTTAAGAATCATCGGGGCTGTGGCCAGTCAGCCCGGAGGTGCAGGCAGGGT
 GGGCCCTCACTGGGCAGCTGGAGGAGCACGGACTGCCCGCTGGCAGGTAGGTGATGTT
 CCGAGAGCGTGAGAGCTGGTACGCGATGTCCTCTGCAGCTTCCAGCTTGGCAGCTCGAT
 CAGGCCATCCCTGCAAGTGGCCAGTGGATTGGCAATCAGCTCAGCTGCCTTGGAGTCGCC
 CTCAGCAGAGATGATGGCCGCTTTTTCTGTTGCTCAGCCTTTTCCACCACAAATCTGGC
 CCTCTCTGCTTCTGCTGAGCCACCTGTTTGGGCTCCACCGCTTCTTGGGACTCCCTTTC
 CGAAGGCAAAAAGGTTAAAGGCCCTTTTCCCAAAAAGCCACAGGGGGGGCGCTCCCC
 CTTTAAGGGGCCCTCCCCCGGAAACCCACCCTCTTGGGGAGAAAATTTCCCAAAA
 AAGAGACCCCCCGCTTTGGGGCCCCCGGGGGGGGGGGGGCCCCCCCCCATATACC
 CCCCCCACCAGGAAAAAACAATAAATTTTCCCCCGGGAGGGGGGGCCCCCGGGGGA
 GCCCCCCCAAAAAAATTTTTTCTCCCCCCCCCAAGAAAAAATTTCTCT
 TCCCCACAAGAGGGGCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_002634

Insert Size:

1140 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).

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_002634.2](#), [NP_002625.1](#)

RefSeq Size: 1826 bp

RefSeq ORF: 819 bp

Locus ID: 5245

UniProt ID: [P35232](#)

Cytogenetics: 17q21.33

Domains: Band_7

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 encode the same isoform (1).