

## PHB2 cDNA

Catalog Number: ATGD0027

### PRODUCT INFORMATION

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**Catalog number**

ATGD0027

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_001138303.1

**Alternative Names**

Prohibitin 2, Bap37, p22, B cell receptor associated protein 37, BAP, BCAP37, PNAS-141, REA

**mRNA Refseq**

NM\_001144831.1

**OMIM**

610704

**Chromosome location**

12p13

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

900bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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PHB2 acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases by similarity. This protein functions as an estrogen receptor (ER) -selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. PHB2 competes with NCOA1 for modulation of ER transcriptional activity. It is probably involved in regulating mitochondrial respiration activity and in aging

### DATA

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#### Sequence nucleotides

```
ATGGCCCAGA ACTTGAAGGA CTTGGCGGGA CGGCTGCCCCG CCGGGCCCCG GGGCATGGGC ACGGCCCTGA
AGCTGTTGCT GGGGGCCGCG GCCGTGGCCT ACGGTGTGCG CGAATCTGTG TTCACCGTGG AAGGCGGGCA
CAGAGCCATC TTCTTCAATC GGATCGGTGG AGTGCAGCAG GACACTATCC TGGCCGAGGG CCTTCACTTC
AGGATCCCTT GGTTCAGTA CCCATTATC TATGACATTC GGGCCAGACC TCGAAAAATC TCCTCCCCTA
CAGGCTCCAA AGACCTACAG ATGGTGAATA TCTCCCTGCG AGTGTTGTCT CGACCCAATG CTCAGGAGCT
TCCTAGCATG TACCAGCGCC TAGGGCTGGA CTACGAGGAA CGAGTGTTGC CGTCCATTGT CAACGAGGTG
CTCAAGAGTG TGGTGGCCAA GTTCAATGCC TCACAGCTGA TCACCCAGCG GGCCAGGTA TCCCTGTTGA
TCCGCCGGGA GCTGACAGAG AGGGCCAAGG ACTTCAGCCT CATCCTGGAT GATGTGGCCA TCACAGAGCT
GAGCTTTAGC CGAGAGTACA CAGCTGCTGT AGAAGCCAAA CAAGTGGCCC AGCAGGAGGC CCAGCGGGCC
CAATTCTTGG TAGAAAAAGC AAAGCAGGAA CAGCGGCAGA AAATTGTGCA GGCCGAGGGT GAGGCCGAGG
CTGCCAAGAT GCTTGGAGAA GCACTGAGCA AGAACCTGG CTACATCAA CTTCGCAAGA TTCGAGCAGC
CCAGAATATC TCCAAGACGA TCGCCACATC ACAGAATCGT ATCTATCTCA CAGCTGACAA CCTTGTGCTG
AACCTACAGG ATGAAAGTTT CACCAGGGGA AGTGACAGCC TCATCAAGGG TAAGAAATGA
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#### Transaction Sequence

```
MAQNLKDLAG RLPAGPRGMG TALKLLLGAG AVAYGVRESV FTVEGGHRAI FFNRIGGVQQ DTILAEGLHF RIPWFQYPII
YDIRARPRKI SSPTGSKDLQ MVNISRVLV RPNAQELPSM YQRLGLDYEE RVLPSIVNEV LKSVVAKFNA SQLITQRAQV
LLIRRELTE RAKDFSLILD DVAITELSF SREYTA AVEAK QVAQQAQRA QFLVEKAKQE QRQKIVQAEG EAEAAKMLGE
ALSKNPGYIK LRKIRAAQNI SKTIATSQNR IYLTADNLVL NLQDESFTRG SDSLIKGGK
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