

Product datasheet for **RN206538**

Phb2 (NM_001013035) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Phb2 (NM_001013035) Rat Untagged Clone
Tag: Tag Free
Symbol: Phb2
Synonyms: Bap; Bap-37; Bap37; Bcap27; Bcap37
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206538 representing NM_001013035
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGAACTTAAAGGACCTAGCGGGACGCTGCCCTCCGGGCTCGGGGCATGGGCACGGCGCTGA
 AGCTGCTGCTGGGGCCGGGGCTGTGGCCTACGGCGTCCGTGAGTCCGTATCACTGTGGAAGGTGGTCA
 CAGAGCCATCTTCTTTAATCGTATTGGTGGCGTACAACAGGACACAATCCTAGCCGAAGGCCTTCACTTC
 AGGATTCCTGGTTCCAGTACCCCATCATCTATGACATTCGGGCCAGACCTCGAAAAATCTCTCCCCCA
 CAGGCTCCAAAGACCTGCAGATGGTGAACATCTCCCTGCGTGTACTGTCTCGGCCAATGCCAGGAGCT
 CCCCAGCATGTACCAGCGCCTAGGCCTAGACTATGAGGAGCGAGTGTGCGCTCCATTGTTAATGAGGTG
 CTCAAGAGTGTGGTGGCCAAGTTCAACGCTCGCAGCTCATTACCAGCGGGCTCAGGTGTCTCTGTTGA
 TCCGAAGAGAGCTGACAGAGCGTGCCAAGGACTTCAGCCTCATCTGGACGATGTAGCTATCACAGAGCT
 AAGCTTCAGCCGAGAGTACACAGCTGCTGTAGAAGCCAAACAAGTGGCCAGCAGGAAGCCAGAGGGCC
 CAGTTTTTGGTGGAGAAAGCAAAGCAGGAACAACGACAGAAGATTGTGACGGCTGAGGGGAGGCGGAGG
 CTGCTAAGATGCTTGGAGAAGCACTGAGCAAGAATCCTGGCTATATCAAGCTCCGAAAGATCCGGGCTGC
 CCAGAACATCTCTAAAACGATCGCCACATCACAGAACCGGATCTATCTCACAGCTGACAACCTTGTGCTG
 AATCTGCAGGATGAAAGCTTTACTCGGGGAAGTACAGCCTCATTAAAGGTAAGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001013035
Insert Size: 900 bp



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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:	<ol style="list-style-type: none">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:	<u>NM_001013035.1</u> , <u>NP_001013053.1</u>
RefSeq Size:	1373 bp
RefSeq ORF:	900 bp
Locus ID:	114766
UniProt ID:	<u>Q5XIH7</u>
Cytogenetics:	4q42
Gene Summary:	Acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. Functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. Competes with NCOA1 for modulation of ER transcriptional activity. Probably involved in regulating mitochondrial respiration activity and in aging (By similarity). In mitochondria, regulates cytochrome-c oxidase assembly (COX) and mitochondrial respiration. Binding to sphingoid 1-phosphate (SPP) modulates its regulator activity (By similarity).[UniProtKB/Swiss-Prot Function]