

Product datasheet for **RR206538**

Phb2 (NM_001013035) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Phb2 (NM_001013035) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Phb2
Synonyms: Bap; Bap-37; Bap37; Bcap27; Bcap37
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206538 representing NM_001013035
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGAACTTAAAGGACCTAGCGGGACGCCTGCCCTCCGGGCTCGGGGCATGGGCACGGCGCTGA
AGCTGCTGCTGGGGCCGGGGCTGTGGCCTACGGCGTCCGTGAGTCCGTATCACTGTGGAAGGTGGTCA
CAGAGCCATCTTCTTTAATCGTATTGGTGGCGTACAACAGGACACAATCCTAGCCGAAGGCCTTCACTTC
AGGATTCCTGGTTCCAGTACCCATCATCTATGACATTCGGGCCAGACCTCGAAAAATCTCTCCCCCA
CAGGCTCCAAAGACCTGCAGATGGTGAACATCTCCCTGCGTGTACTGTCTCGGCCAATGCCAGGAGCT
CCCCAGCATGTACCAGCGCCTAGGCCTAGACTATGAGGAGCGAGTGTGCGCTCCATTGTTAATGAGGTG
CTCAAGAGTGTGGTGGCCAAGTTCAACGCCTCGCAGCTCATTACCCAGCGGGCTCAGGTGTCTGTGTTGA
TCCGAAGAGAGCTGACAGAGCGTGCCAAGGACTTCAGCCTCATCTGGACGATGTAGCTATCACAGAGCT
AAGCTTCAGCCGAGAGTACACAGCTGCTGTAGAAGCCAAACAAGTGGCCAGCAGGAAGCCAGAGGGCC
CAGTTTTTGGTGGAGAAAGCAAAGCAGGAACAACGACAGAAGATTGTGCAGGCTGAGGGGAGGCGGAGG
CTGCTAAGATGCTTGGAGAAGCACTGAGCAAGAATCCTGGCTATATCAAGCTCCGAAAGATCCGGGCTGC
CCAGAACATCTCTAAAACGATCGCCACATCACAGAACCGGATCTATCTCACAGCTGACAACCTTGTGCTG
AATCTGCAGGATGAAAGCTTTACTCGGGGAAGTACAGCCTCATTAAAGGTAAGAAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR206538 representing NM_001013035
 Red=Cloning site Green=Tags(s)

MAQNLKDLA~~GR~~LPSGPRGMGTALKLLL~~GAGAVAYGVRESVFTVEGGHRAIFFNRI~~GGVQQDTILA~~EGLHF~~
 RIPWFQYPIIYDIRARPRKISSPTGSKDLQMVNLSL~~RVL~~SRPNAQELPSMYQRLGLDYE~~ERVLPSIVNEV~~
 LKSVVAKFNASQLITQRAQVSL~~LIRREL~~TERAKDFSLI~~LDDVAITELSF~~SREYTA~~A~~VEAKQVAQQEAQRA
 QFLVEKAKQEQRQKIVQAEGEAAKMLGEALSKNPGYIKLRKIRAAQNI~~SKTIATSQNR~~IYLTADN~~LVL~~
 NLQDES~~FTRGSDSLIKGKK~~

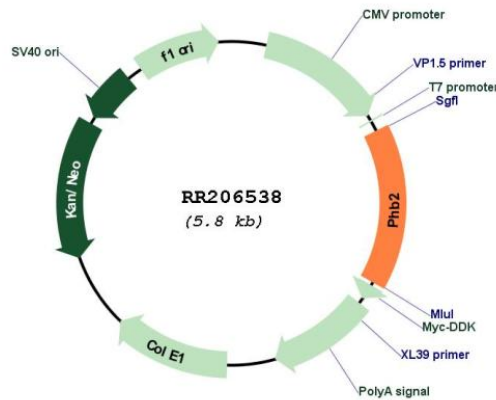
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013035

ORF Size: 897 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:	<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:	NM_001013035.1 , NP_001013053.1
RefSeq Size:	1373 bp
RefSeq ORF:	900 bp
Locus ID:	114766
UniProt ID:	Q5XIH7
Cytogenetics:	4q42
MW:	33.3 kDa
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]