

Product datasheet for MR218376

Phb2 (NM_007531) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phb2 (NM_007531) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phb2
Synonyms:	AU044498; BAP; Bap37; Bcap37; REA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218376 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAACTGAAGGACTTAGCTGGACGCCTGCCCGGGCCCTCGGGGCATGGGCACGGCGCTGA
AGCTGCTGCTGGGGCCGGGGCGGTGGCTACGGCGTCCGCGAATCCGTGTTACCGTGAAGGCGGTCA
TAGAGCCATCTTTTTAATCGTATTGGTGGCGTGCAGCAGGACACGATCCTGGCCGAAGGCCTTCACTTC
AGGATCCCCTGGTCCAGTACCCATCATCTATGACATTCGGGCCAGACCTCGAAAAATCTCTCCCCCA
CAGGCTCAAAGACCTGCAGATGGTGAACATCTCCCTGCGTGTGCTGCCGACCAATGCCAGGAGCT
CCCAGCATGTACCAGCGTCTAGGGCTGGACTATGAGGAGCGAGTGTGCCGTCCATTGTTAATGAGGTG
CTCAAGAGTGTGGTGGCCAAGTTCAATGCCTCGCAGCTGATCACCCAGCGGGCTCAGGTGTCCCTGTTGA
TCCGAAGAGAGCTGACAGAGCGGCCAAGGACTTCAGCCTCATCCTGGATGATGTAGCTATCACAGAGCT
GAGCTTCAGCCGAGGTACACAGCTGTGTAGAAGCCAAGCAAGTGGCCAGCAGGAAGCCAGCGGGCC
CAGTTTTTGGTGGAGAAAGCGAAGCAGGAACAGCGACAGAAGATTGTGCAGGCTGAGGGGAGGCGGAGG
CTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAATCCTGGCTATATCAAGCTCCGAAAGATCCGGGCCG
CCAGAACATCTCTAAAACGATCGCCACATCACAGAACCGAATCTATCTCACAGCTGACAACCTTGTGCTG
AATCTACAGGATGAAAGTTTTACTCGGGGAAGTGACAGCCTCATTAAAGGTAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218376 protein sequence
Red=Cloning site Green=Tags(s)

MAQNLKDLA~~GR~~LPA~~GR~~PMGTALKLLL~~GAGAVAYGVRESVFTVEGGHRAIFFNRI~~GGVQQDTILA~~EGLHF~~
 RIPWFQYPIIYDIRARPRKISSPTGSKDLQMVNLSLRVLSRPNAQELPSMYQRLGLDYE~~ERVLPSIVNEV~~
 LKSVVAKFNASQLITQRAQVSL~~LIRREL~~TERAKDFSLI~~LDDVAITELSF~~SREY~~TA~~AAVEAKQVAQQEAQRA
 QFLVEKAKQEQRQKIVQAEGEAAKMLGEALSKNPGYIKLRKIRAAQNI~~SKTIATSQNR~~IYLTADNLVL
 NLQDES~~FTRGSDSLIKGKK~~

TRTRPLE~~QKLISEEDLA~~ANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007531

ORF Size: 900 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:

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_007531.2](#), [NP_031557.2](#)

RefSeq Size: 1360 bp

RefSeq ORF: 900 bp

Locus ID: 12034

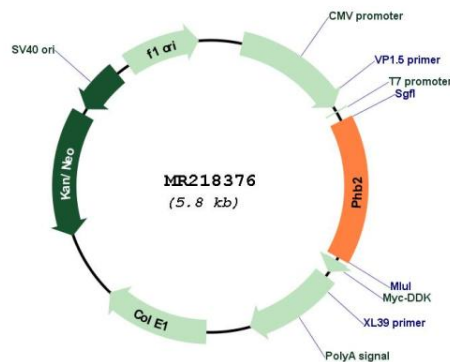
UniProt ID: [O35129](#)

Cytogenetics: 6 59.17 cM

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. In mitochondria, regulates cytochrome-c oxidase assembly (COX) and mitochondrial respiration. Binding to sphingoid 1-phosphate (SPP) modulates its regulator activity (PubMed:20959514). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218376