

Product datasheet for **MG218376**

Phb2 (NM_007531) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Phb2 (NM_007531) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Phb2 |
| Synonyms: | AU044498; BAP; Bap37; Bcap37; REA |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG218376 representing NM_007531 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAACTGAAGGACTTAGCTGGACGCCTGCCCGCGGGCTCGGGGCATGGGCACGGCGCTGA
AGCTGCTGCTGGGGCCGGGGCGGTGGCTACGGCGTCCGCGAATCCGTGTTACCGTGAAGGCGGTCA
TAGAGCCATCTTTTTAATCGTATTGGTGGCGTGCAGCAGGACACGATCCTGGCCGAAGGCCCTCACTTC
AGGATCCCCTGGTCCAGTACCCATCATCTATGACATTCGGGCCAGACCTCGAAAAATCTCTCCCCCA
CAGGCTCCAAAGACCTGCAGATGGTGAACATCTCCCTGCGTGTGCTGTCCCGACCAATGCCAGGAGCT
CCCAGCATGTACCAGCGTCTAGGGCTGGACTATGAGGAGCGAGTGTGCGCTCCATTGTTAATGAGGTG
CTCAAGAGTGTGGTGGCCAAGTTCAATGCCTCGCAGCTGATCACCCAGCGGGCTCAGGTGTCCCTGTTGA
TCCGAAGAGAGCTGACAGAGCGCGCCAAGGACTTCAGCCTCATCCTGGATGATGTAGCTATCACAGAGCT
GAGCTTCAGCCGAGGTACACAGCTGCTGTAGAAGCCAAGCAAGTGGCCAGCAGGAAGCCAGCGGGCC
CAGTTTTTGGTGGAGAAAGCGAAGCAGGAACAGCGACAGAAGATTGTGCAGGCTGAGGGGAGGCGGAGG
CTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAATCCTGGCTATATCAAGCTCCGAAAGATCCGGGCCCGC
CCAGAACATCTCTAAAACGATCGCCACATCACAGAACCGAATCTATCTCACAGCTGACAACCTTGTGCTG
AATCTACAGGATGAAAGTTTTACTCGGGGAAGTGACAGCCTCATTAAAGGTAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218376 representing NM_007531
 Red=Cloning site Green=Tags(s)

MAQNLKDLA~~GR~~LPA~~GR~~PMGTALKLLL~~GAGAVAYGVRESVFTVEGGHRAIFFNRIGGVQQDTILA~~EGLHF
 RIPWFQYPIIYDIRARPRKISSPTGSKDLQMVNISRVL~~SRPNAQELPSMYQRLGLDYEERVLPSIVNEV~~
 LKSVVAKFNASQLITQRAQVSL~~IRREL~~TERAKDFSLILDDVAITELSF~~SREYTA~~AAVEAKQVAQQEAQRA
 QFLVEKAKQEQRQKIVQAEGEAAKMLGEALSKNPGYIKLRKIRAAQNI~~SKTIATSQNRIYLTADNLVL~~
 NLQDESFTRGSDSLIKGKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007531

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:

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

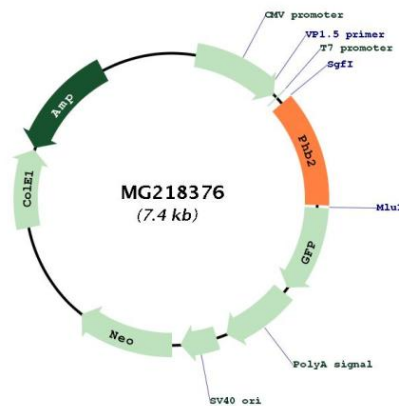
Locus ID: 12034

UniProt ID: [O35129](#)

Cytogenetics: 6 59.17 cM

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 MG218376