

## Product datasheet for MC208177

### Phb2 (NM\_007531) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Phb2 (NM\_007531) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Phb2  
**Synonyms:** AU044498; BAP; Bap37; Bcap37; REA  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208177 representing NM\_007531  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCAGAACTGAAGGACTTAGCTGGACGCCTGCCCGGGGCTCGGGGCATGGGCACGGCGCTGA  
AGCTGCTGCTGGGGCCGGGGCGGTGGCCTACGGCGTCCGCGAATCCGTGTTACCGTGGAAGCGGTCA  
TAGAGCCATCTTTTTAATCGTATTGGTGGCGTGCAGCAGGACACGATCCTGGCCGAAGGCCTTCACTTC  
AGGATCCCTGGTTCCAGTACCCATCATCTATGACATTCGGGCCAGACCTCGAAAAATCTCTCCCCCA  
CAGGCTCCAAAGACCTGCAGATGGTGAACATCTCCCTGCGTGTGCTGTCCGACCAATGCCAGGAGCT  
CCCCAGCATGTACCAGCGTCTAGGGCTGGACTATGAGGAGCGAGTGTGCGCTCCATTGTTAATGAGGTG  
CTCAAGAGTGTGGTGGCCAAGTCAATGCCTCGCAGCTGATCACCCAGCGGGCTCAGGTGTCCCTGTTGA  
TCCGAAGAGAGCTGACAGAGCGGCCAAGGACTTCAGCCTCATCTGGATGATGTAGCTATCACAGAGCT  
GAGCTTCAGCCGAGAGTACACAGCTGCTGTAGAAGCAAGCAAGTGGCCAGCAGGAAGCCAGCGGGCC  
CAGTTTTTGGTGGAGAAAGCGAAGCAGGAACAGCGACAGAAGATTGTGAGGCTGAGGGGAGCGGAGG  
CTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAATCCTGGCTATATCAAGCTCCGAAAGATCCGGCCGC  
CCAGAACATCTCTAAAACGATCGCCACATCACAGAACCGAATCTATCTCACAGCTGACAACCTTGTGCTG  
AATCTACAGGATGAAAGTTTTACTCGGGGAAGTGACAGCCTCATTAAAGGTAAGAAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_007531  
**Insert Size:** 900 bp



<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007531.2</a> , <a href="#">NP_031557.2</a>
<b>RefSeq Size:</b>	1360 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	12034
<b>UniProt ID:</b>	<a href="#">O35129</a>
<b>Cytogenetics:</b>	6 59.17 cM
<b>Gene Summary:</b>	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]