

Product datasheet for SC324914

REA (PHB2) (NM_001144831) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REA (PHB2) (NM_001144831) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHB2
Synonyms:	BAP; Bap37; BCAP37; hBAP; p22; PNAS-141; REA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324914 representing NM_001144831. Blue=Insert sequence Red=Cloning site Green=Tag(s)

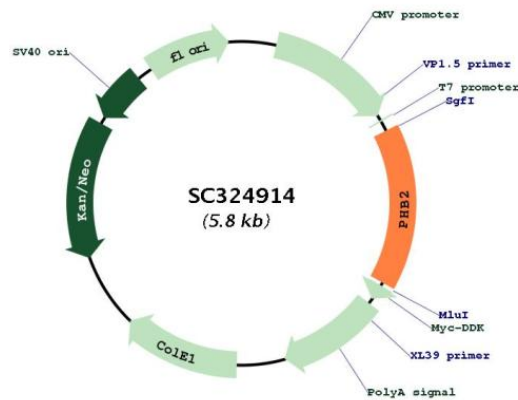
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAGAACTGAAGGACTTGGCGGGACGGCTGCCCGCCGGGCCCGGGGCATGGGCACGGCCCTG
AAGCTGTTGCTGGGGCCGGCGCCGTGGCTACGGTGTGCGCAATCTGTGTTACCGTGAAGCGGG
CACAGAGCCATCTTCTCAATCGGATCGGTGGAGTGCAGCAGGACACTATCCTGGCCGAGGGCCTTAC
TTCAGGATCCCTGGTTCAGTACCCATTATCTATGACATTCCGGCCAGACCTCGAAAAATCTCCTCC
CCTACAGGCTCCAAAGACCTACAGATGGTGAATATCTCCCTGCGAGTGTGTCTCGACCAATGCTCAG
GAGCTTCTAGCATGTACCAGCGCTAGGGCTGGACTACGAGGAACGAGTGTGCGTCCATTGTCAAC
GAGGTGCTCAAGAGTGTGGTGGCCAAGTCAATGCCTCACAGCTGATCACCCAGCGGGCCAGGTATCC
CTGTTGATCCGCCGGGAGCTGACAGAGAGGGCCAAGGACTTCAGCCTCATCCTGGATGATGTGGCCATC
ACAGAGCTGAGCTTTAGCCGAGAGTACACAGCTGCTGTAGAAGCCAAACAAGTGGCCAGCAGGAGGCC
CAGCGGGCCCAATTCTTGGTAGAAAAAGCAAAGCAGGAACAGCGGCAGAAAAATTGTGAGGCCGAGGGT
GAGGCCGAGGCTGCCAAGATGCTTGAGAAGCACTGAGCAAGAACCCTGGCTACATCAAACCTCGCAAG
ATTCGAGCAGCCAGAATATCTCAAGACGATCGCCACATCACAGAATCGTATCTATCTCACAGCTGAC
AACCTTGTGCTGAACCTACAGGATGAAAGTTTCACCAGGGGAAGTACAGCCTCATCAAGGGTAAGAAA
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_001144831

Insert Size: 900 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001144831.1
RefSeq Size:	1457 bp
RefSeq ORF:	900 bp
Locus ID:	11331
UniProt ID:	Q99623
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome, Transcription Factors
MW:	33.3 kDa
Gene Summary:	<p>Acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases (By similarity). 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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>