

Product datasheet for **SC111193**

REA (PHB2) (NM_007273) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REA (PHB2) (NM_007273) Human Untagged Clone
Tag:	Tag Free
Symbol:	REA
Synonyms:	BAP; Bap37; BCAP37; p22; PNAS-141; REA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007273, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCAGAACTTGAAGGACTTGGCGGGACGGCTGCCCGCCGGGCCCGGGGCATGGGCACGGCCCTGA
AGCTGTTGCTGGGGGCCGGCGCCGTGGCTACGGTGTGCGCGAATCTGTGTTACCGTGGAAGCGGGCA
CAGAGCCATCTTCTTCAATCGGATCGGTGGAGTGCAGCAGGACACTATCCTGGCCGAGGGCCTTCACTTC
AGGATCCCTTGGTTCCAGTACCCATTATCTATGACATTCGGGCCAGACCTCGAAAAATCTCCTCCCCTA
CAGGCTCCAAAGACCTACAGATGGTGAATATCTCCCTGCGAGTGTGTCTCGACCAATGCTCAGGAGCT
TCCTAGCATGTACCAGCGCTAGGGCTGGACTACGAGGAACGAGTGTGCCGTCCATTGTCAACGAGGTG
CTCAAGAGTGTGGTGGCCAAGTTCAATGCCTCACAGCTGATCACCCAGCGGGCCAGGTATCCCTGTTGA
TCCGCCGGGAGCTGACAGAGAGGGCCAAGGACTTCAGCCTCATCCTGGATGATGTGGCCATCACAGAGCT
GAGCTTTAGCCGAGAGTACACAGCTGCTGTAGAAGCCAAACAAGTGGCCAGCAGGAGGCCAGCGGGCC
CAATTCTTGGTAGAAAAAGCAAAGCAGGAACAGCGGCAGAAAAATTGTGCAGGCCGAGGGTGAAGCCGAGG
CTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAACCCTGGCTACATCAAACCTCGCAAGATTCGAGCAGC
CCAGAATATCTCCAAGACGATCGCCACATCACAGAATCGTATCTATCTCACAGCTGACAACCTTGTGCTG
AACCTACAGGATGAAAGTTTCACCAGGGGAAGTGACAGCCTCATCAAGGGTAAGAAATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007273 unedited
 TTTGTAACGACTCACTATAGGCGGCCCGCAATTCGCACGAGGCTTTCGCCAGCCTTAC
 GGGCCCGAACCTCGTGTGAAGGTGCAGTACCTAAGCCGGAGCGGGTAGAGCGGGCC
 GGCACCCCTTCTGACCTCCAGTGCCCGCCGCCCTCAAGATCAGACATGGCCAGAAGTTG
 AAGGACTTGGCGGGACGGCTGCCCGCGGGCCCGGGGCATGGGCACGGCCCTGAAGCTG
 TTGCTGGGGCCCGCCGCTGGCCTACGGTGTGCGCGAATCTGTGTTACCGTGGAAAGGC
 GGGCAGAGCCATCTTCTTCAATCGGATCGGTGGAGTGCAGCAGGACACTATCCTGGCC
 GAGGGCCTTCACTTCAGGATCCCTTGGTTCCAGTACCCATTATCTATGACATTCGGGCC
 AGACCTCGAAAAATCTCCTCCCTACAGGCTCCAAAGACCTACAGATGGTGAATATCTCC
 CTGCGAGTGTTGTCTCGACCCAATGCTCAGGAGCTTCTAGCATGTACCAGCGCCTAGGG
 CTGGACTACGAGGAACGAGTGTTGCCGTCCATTGTCAACGAGGTGCTCAAGAGTGTGGT
 GCCAAGTTCAATGCCTCACAGCTGATCACCCAGCGGGCCAGGTATCCCTGGTTGATCCG
 CCGGGAGCTGACAGAGAGGGCAAGGACTTCAGCCTCATCCTGGATGATGTGGCCATCAC
 AGAGCTGAGCTTAGCCGAGAGTACACAGCTGCTGTAGAAGCAAACAAGTGGCCAGCAG
 GAGGCCACAGCGCCCTTCTTGGTAGAAAAAGCAAGCANGAACAGCGCAGAAAATGT
 GCAGCCCAAGGTGAGGCCGAGCTGCCAATGCTTGGAGAACACTGAGCAGAACCTGCT
 ACACAACCTGCAGAATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007273 unedited
 CTTTGGACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCAGGTTAAGT
 AATAAAAATTATTGAGAATTCCTGGGTGGTGTATCTCCTCCAGCCTTGAGGGAGGG
 AACAACTGTAGAAATCACTTGAGAAATCACGCACTGTCCCAACAGCCCCAGTTAAC
 ACAGGGAGGAGAAAGTAATTCCCAGAAAAGGGCTAGTCTTCAGTCTTCTTAATCCA
 AGAGGGTTCAGGAACCGGTGTGGGGACCATCGCATGATACTGGGGCGGGTAGGGCT
 GTGCTGGACCCCTGGCTGGCTCCTCAAAAAGTGGAGAAGCAGATCCACTTCTCTGGGG
 TGGAGTCTTGGTGACTAGGCTCATTTCTTACCCTTGTAGGGCTGCACTTCCCCTGGT
 GAACTTTTCATCTGTAGGTTACGACACAAGGTTGTGAGCTGTGAGATAGATACGATTCTG
 TGATGTGGCGATCGTCTTGGAGATATTCTGGGCTGCTCGAATCTTGGCAAGTTTGTGTA
 GCCAGGTTCTTGTCTGAGTCTTCTCAAGCATCTTGGCAGCCTCGGCCACCCCTCGG
 CTGCACAATTTCTGCCGCTGTTCTGCTTTGCTTTTCTACCAAGAATTGGGCCCGCTG
 GGCTCCTGTGGCCACTTGTGGCTTCTACAGCAGCTGTACTCTCGGCTCAAGT
 CAGCTCTGTGATGGCCACATCATCCAGGATGAGGCTGAAGTCTTGGCCCTCTCTGTGAG
 CTCCGNGCGATCAACAGGNATACCTNCGCCGCTGGTGTGAGCTGTGAGCATTGAACT
 TGCCACCACACTTGTAGCACCTCGTGACATGGACGGCACACTCGTTCTCGTAGTCAGCC
 TAGCGCTGNTACATGCTAGAGCTCTGACATTGGTCAGACACCTGCAGGAGATATACTCTG
 TAGCTTTGACTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_007273

Insert Size:

1400 bp

OTI Disclaimer:

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).

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_007273.3](#), [NP_009204.1](#)

RefSeq Size: 1416 bp

RefSeq ORF: 900 bp

Locus ID: 11331

Cytogenetics: 12p13.31

Domains: Band_7

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: 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]