

Product datasheet for **RC233580**

REA (PHB2) (NM_001267700) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REA (PHB2) (NM_001267700) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	REA
Synonyms:	BAP; Bap37; BCAP37; hBAP; p22; PNAS-141; REA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233580 representing NM_001267700 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAACTGAAGGACTTGGCGGGACGGCTGCCCGCCGGGCCCGGGGCATGGGCACGGCCCTGA
AGCTGTTGCTGGGGCCGGCGCCGTGGCTACGGTGTGCGCGAATCTGTGTTACCGTGAAGGCGGGCA
CAGAGCCATCTTCTTCAATCGGATCGGTGGAGTGCAGCAGGACTATCCTGGCCGAGGGCCTTCACTTC
AGGATCCCTTGGTCCAGTACCCATTATCTATGACATTCGGGCCAGACCTCGAAAAATCTCTCCCTCA
CAGGCTCCAAAGACCTACAGATGGTGAATATCTCCCTGCGAGTGTGTCTCGACCAATGCTCAGGAGCT
TCCTAGCATGTACCAGCGCTAGGGCTGGACTACGAGGAACGAGTGTGCCGTCCATTGTCAACGAGGTG
CTCAAGAGTGTGGTGGCCAAGTTCAATGCCTCACAGCTGATCACCCAGCGGGCCAGGTATCCCTGTTGA
TCCGCCGGGAGCTGACAGAGAGGGCCAAGGACTTCAGCCTCATCCTGGATGATGTGGCCATCACAGAGCT
GAGCTTTAGCCGAGAGTACACAGCTGCTGTAGAAGCCAAACAAGTGGCACTGAGCAAGAACCCTGGCTAC
ATCAAATTCGCAAGATTCGAGCAGCCAGAATATCTCCAAGACGATCGCCACATCACAGAATCGTATCT
ATCTCACAGCTGACAACCTTGTGCTGAACCTACAGGATGAAAGTTTACCAGGGGAAGTGACAGCCTCAT
CAAGGGTAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233580 representing NM_001267700
 Red=Cloning site Green=Tags(s)

MAQNLKDLA~~GR~~LPA~~GR~~PMGTALKLLL~~GAGAVAYGVRESVFTVEGGHRAIFFNRI~~GGVQQDTILA~~EGLHF~~
 RIPWFQYPIIYDIRARPRKISSPTGSKDLQMVNISRVL~~SRPNAQELPSMYQRLGLDYEERVLPSIVNEV~~
 LKS~~VVAKFN~~ASQLITQRAQVSL~~LIRRELTERAKDFSLI~~LDDVAITELSF~~SREYTA~~A~~AVEAKQ~~VALSKNPGY
 IKLRKIRAAQNI~~SKTIATSQNRIYL~~TADNLV~~LN~~LQDES~~FTRGSDSLIKGKK~~

TRTRPLE~~QKLISEEDLA~~ANDILDYKDDDDK~~V~~

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001267700

ORF Size: 783 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_001267700.1](#), [NP_001254629.1](#)

RefSeq Size: 1343 bp

RefSeq ORF: 786 bp

Locus ID: 11331

UniProt ID: [Q99623](#)

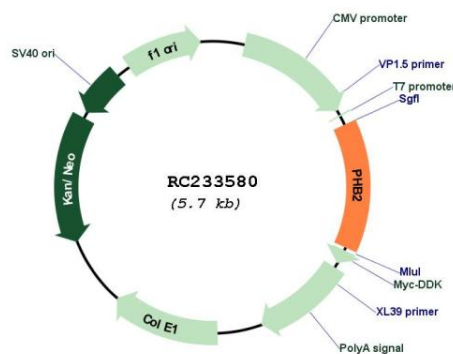
Cytogenetics: 12p13.31

Protein Families: Druggable Genome, Transcription Factors

MW: 29.5 kDa

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]

Product images:



Circular map for RC233580