

Product datasheet for **SC118548**

PBP (PEBP1) (NM_002567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PBP (PEBP1) (NM_002567) Human Untagged Clone
Tag:	Tag Free
Symbol:	PBP
Synonyms:	HCNP; HCNppp; HEL-210; HEL-S-34; HEL-S-96; PBP; PEBP; PEBP-1; RKIP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118548 sequence for NM_002567 edited (data generated by NextGen Sequencing) ATGCCGGTGGACCTCAGCAAGTGGTCCGGGCCCTTGAGCCTGCAAGAAGTGGACGAGCAG CCGCAGCACCCGCTGCATGTCACCTACGCCGGGCGGCGGTGGACGAGCTGGGCAAAGTG CTGACGCCACCCAGGTTAAGAATAGACCCACCAGCATTTCTGTTGGATGGTCTTGATTCA GGGAAGCTCTACACCTTGGTCTGACAGACCCGGATGCTCCAGCAGGAAGGATCCCAA TACAGAGAATGGCATCATTTCTGGTGGTCAACATGAAGGGCAATGACATCAGCAGTGGC ACAGTCTCTCCGATTATGTGGGCTCGGGGCTCCCAAGGGCACAGGCCTCCACCGCTAT GTCTGGCTGGTTACGAGCAGGACAGGCCGCTAAAGTGTGACGAGCCATCCTCAGCAAC CGATCTGGAGACCACCGTGGCAAATTAAGGTGGCGTCTTCCGTA AAAAGTATGAGCTC AGGGCCCCGGTGGCTGGCACGTGTACCAGGCCGAGTGGGATGACTATGTGCCAAACTG TACGAGCAGCTGTCTGGGAAGTAG Clone variation with respect to NM_002567.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002567 unedited
 ACTGCGATTTGTAACCGACTTACTGATAGGGCGGCCGCGCAATCGGCACGAGGCGCCCGC
 GCCTGGCCTACCGCGGCACTCCCGGCTGCACGCTCTGCTTGGCCTCGCCATGCCGGTGG
 CCTCAGCAAGTGGTCCGGGCCCTTGAGCCTGCAAGAAGTGGACGAGCAGCCGAGCACCC
 GCTGCATGTCACCTACGCCGGGGCGGCGGTGGTACTAGCTGGGCAAAGTCTGACGCCCA
 CCCAGGTTAAGAATAGACCCACCAGCATTTCGTGGGATGGTCTTGATTACGGGAAGCTCT
 ACACCTTGGTCTGACAGACCCGGATGCTCCAGCAGGAAGGATCCCAAATACAGAGAAT
 GGATCATTTTCTGGTGGTCAACATGAAGGGCAATGACATCAGCAGTGGCACAGTCTCT
 CCGATTATGTGGGCTCGGGCCCTCCAAGGGCACAGGCCTCCACCCTATGTCTGGCTGG
 TTTACGAGCAGGACAGGCCGCTAAAGTGTGACGAGCCCATCCTCAGCAACCGATCTGGAG
 ACCACCGTGGCAAATTCAAGGTGGCGTCTTCCGTAAGAAAGTATGAGCTCAGGGCCCCGG
 TGGCTGGCACGTGTACCAGGCCGAGTGGGATGACTATGTGCCAAACTGTACGAGCAGC
 TGTCTGGAAAGTAGGGGTTAGCTTGGCGACCTGAACTGTCTGGAGGCCCAAGCCATG
 TTCCCCAGTTCAGTGTTCATGTATAATAGATTTCTCTCTTCTGCCNACTTGGCATG
 GGTGAGACCTGACCAGTCAGATGGTAGNTGAGGGTACTTTTCTGCTGCCTGGCCTTTA
 TATTTTACTCACTCTGATTATGTTTTGATCAAATTTGACTTCATTTGGGGGTATTT
 TGGTACTGTGATGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002567 unedited
 GGCAACCTCCAGGTCCAGAAGNAGCACTGGGGCGGGTCCACAGGGATGCCACCCGGGATC
 TGTTCCAGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTT
 TTAACCTCCCTAAAGATTCTTTGATGCTTTGCTCTATCACTGTAGACCTGGTCTTTTT
 CCCCCAGTTTTTTCTTTTTTACATTCTGGGTTGCTATTTTCAGATTAATAATTTGATGA
 CCCCATCACAGTACCAAATACCCCAAAATGAAGTTCAAATTTGATCAAAACATAAAT
 CAGAGTGAGTGAGTAAAATTATAAAGGCCAGGCAGCAGGAAAAGTCACCCCTCAACTACCA
 TCTGACTGGTCAGGTCTCACCCATGCCAAGGGGGCAGGAAGAGGAGAAATCTATTATAC
 ATGCAACACTGAACTGGGAACATGGCTTGGGGCCTCCAGGACAGTTCAGGTCCCCAAGC
 TAACCCCTACTTCCCAGACAGCTGCTCGTACAGTTTGGGCACATAGTCATCCCACTCGG
 CCTGGTAACACGTGCCAGCCACCGGGCCCTGAGCTCATACTTTTACGGAAGGACGCCA
 CCTTGAATTTGCCACGNGTGGTCTCCAGAATCGGTTGCTGAAGGATGGGCTCGTCACACT
 TTANCGGGCCTGTCTGCTNCGTAACAGCCAACATTACGGGGGGAAGGCCTGGGCCCTTG
 GGAGCCCCGACCCACATATCGGNAGAGGACCGGCCACTGGTGATGTATTGCCCTTCA
 TGTTGACCACAGAAATGATGCCATTCTGTATTTGGGATCCTTCTGCTGGGACATACC
 GGGTCTGTAGGACCAAGGTGAAAACCTCCTGATCAAGACATCCAGATGGCGGGTGGG
 TATCTAACCGGGGNGGC

Restriction Sites:

NotI-NotI

ACCN:

NM_002567

Insert Size:

1040 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](#)

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_002567.2](#), [NP_002558.1](#)

RefSeq Size: 1507 bp

RefSeq ORF: 564 bp

Locus ID: 5037

UniProt ID: [P30086](#)

Cytogenetics: 12q24.23

Domains: PBP

Gene Summary: This gene encodes a member of the phosphatidylethanolamine-binding family of proteins and has been shown to modulate multiple signaling pathways, including the MAP kinase (MAPK), NF-kappa B, and glycogen synthase kinase-3 (GSK-3) signaling pathways. The encoded protein can be further processed to form a smaller cleavage product, hippocampal cholinergic neurostimulating peptide (HCNP), which may be involved in neural development. This gene has been implicated in numerous human cancers and may act as a metastasis suppressor gene. Multiple pseudogenes of this gene have been identified in the genome. [provided by RefSeq, Jul 2015]