

# Product datasheet for RC206355

## PBP (PEBP1) (NM\_002567) Human Tagged ORF Clone

### **Product data:**

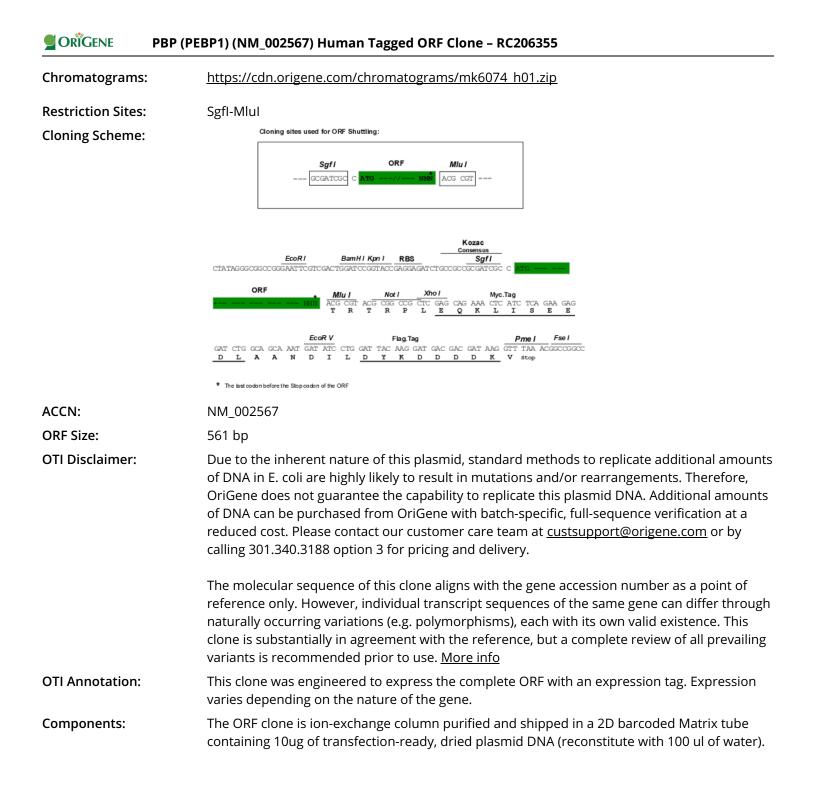
#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PBP (PEBP1) (NM_002567) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PBP
Synonyms:	HCNP; HCNPpp; HEL-210; HEL-S-34; HEL-S-96; PBP; PEBP; PEBP-1; RKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC206355 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCGGTGGACCTCAGCAAGTGGTCCGGGCCCTTGAGCCTGCAAGAAGTGGACGAGCAGCCGCAGCACC CACTGCATGTCACCTACGCCGGGGCGGCGGTGGACGAGCTGGGCAAAGTGCTGACGCCACCCAGGTTAA GAATAGACCCACCAGCATTTCGTGGGATGGTCTTGATTCAGGGAAGCTCTACACCTTGGTCCTGACAGAC CCGGATGCTCCCAGCAGGAAGGATCCCAAATACAGAGAATGGCATCATTTCCTGGTGGTCAACATGAAGG GCAATGACATCAGCAGTGGCACAGTCCTCCCGATTATGTGGGCTCGGGGCCTCCCAAGGGCACAGGCCT CCACCGCTATGTCTGGCTGGTTTACGAGCAGGACAGGCCGCTAAAGTGTGACGAGCCCATCCTCAGCAAC CGATCTGGAGACCACCGTGGCAAATTCAAGGTGGCCGCCTAAAGTGTGACGAGCCCATCCTCAGCAAC GCATCTGGAGACCACCGTGGCAAATTCAAGGTGGCGTCCTTCCGTAAAAGTATGAGCTCAGGGCCCCGG TGGCTGGCACGTGTTACCAGGCCGAGTGGGATGACTATGTGCCCAAACTGTACGAGCAGCTGTCTGGGAA G
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC206355 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MPVDLSKWSGPLSLQEVDEQPQHPLHVTYAGAAVDELGKVLTPTQVKNRPTSISWDGLDSGKLYTLVLTD PDAPSRKDPKYREWHHFLVVNMKGNDISSGTVLSDYVGSGPPKGTGLHRYVWLVYEQDRPLKCDEPILSN RSGDHRGKFKVASFRKKYELRAPVAGTCYQAEWDDYVPKLYEQLSGK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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# **PBP** (PEBP1) (NM\_002567) Human Tagged ORF Clone – RC206355

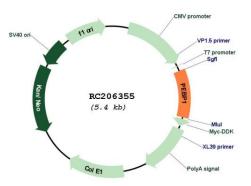
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 002567.4</u>
RefSeq Size:	1507 bp
RefSeq ORF:	564 bp
Locus ID:	5037
UniProt ID:	<u>P30086</u>
Cytogenetics:	12q24.23
Domains:	PBP
MW:	21.1 kDa
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.

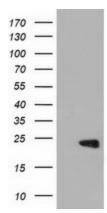
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[provided by RefSeq, Jul 2015]

### **Product images:**

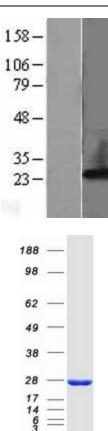


Circular map for RC206355



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PEBP1 (Cat# RC206355, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PEBP1(Cat# [TA501616]). Positive lysates [LY400913] (100ug) and [LC400913] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY400913]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206355 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PEBP1 protein (Cat# [TP306355]). The protein was produced from HEK293T cells transfected with PEBP1 cDNA clone (Cat# RC206355) using MegaTran 2.0 (Cat# [TT210002]).

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