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Product datasheet for RG207878

PCBP1 (NM_006196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCBP1 (NM_006196) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCBP1
Synonyms:	HEL-S-85; hnRNP-E1; hnRNP-X; HNRPE1; HNRPX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207878 representing NM_006196 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGATGCCGGTGTGACTGAAAGTGGACTAAATGTGACTCTCACCATTCGGCTTCTTATGCACGGAAAGG AAGTAGGAAGCATCATTGGGAAGAAAGGGGAGTCGGTTAAGAGGATCCGCGAGGAGAGTGGCGCGCGGAT CAACATCTCGGAGGGGAATTGTCCGGAGAGAATCATCACTCTGACCGGCCCCACCAATGCCATCTTTAAG GCTTTCGCTATGATCATCGACAAGCTGGAGGAAGATATCAACAGCTCCATGACCAACAGTACCGCGGCCA GCAGGCCCCCGGTCACCCTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGG GTGTAAGATCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCCCAAC TCCACCGAGCGGGCCATCACCATCGCTGGCGTGCCGCAGTCTGTCACCGAGTGTGTCAAGCAGATTTGCC TGGTCATGCTGGAGACGCTCTCCCAGTCTCCGCAAGGGAGAGTCATGACCATTCCGTACCAGCCCATGCC GGCCAGCTCCCCAGTCATCTGCGCGGGCGGCCAAGATCGGTGCAGCGACGCTGCGGGCTACCCCCATGCC ACCCATGACCTGGAGGGACCACCTCTAGATGCCTACTCGATTCAAGGACAACACACCATTTCTCCGCTCG ATCTGGCCAAGCTGAACCAGGTGGCAAGACAACAGTCTCACTTTGCCATGATGCACGGCGGGACCGGATT CGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTGGATGCATCTACTCAAACC ACCCATGAACTCACCATTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAACATTAATG AGATCCGCCAGATGTCCGGGGCCCAGATCAAAATTGCCAACCCAGTGGAAGGCTCCTCTGGTAGGCAGGT TACTATCACTGGCTCTGCTGCCAGTATTAGTCTGGCCCAGTATCTAATCAATGCCAGGCTTTCCTCTGAG AAGGGCATGGGGTGCAGC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

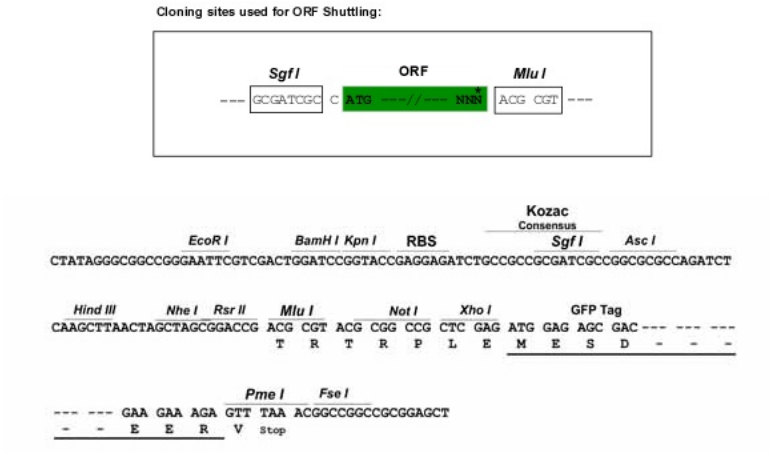
>RG207878 representing NM_006196
Red=Cloning site Green=Tags(s)

MDAGVTESGLNVTLTIRLLMHGKEVGSIIGKKGESVKRIREESGARINISEGNCPERIITLTGPTNAIFK
AFAMIIDKLEEDINSSMTNSTAASRPPVTLRLVVPATQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN
STERAITIAGVPQSVTECVKQICLVMLETLSQSPQGRVMTIPYQPMPASSPVICAGGQDRCSDAAGYPHA
THDLEGPPLDAYSIQGQHTISPLDLAKLNQVARQQSHFAMMHGGTGFAGIDSSSPEVKGYWASLDASTQT
THELTIPNNLIGCIIGRQGANINEIRQMSGAQIKIANPVEGSSGRQVTITGSAASISLAQYLINARLSSE
KGMGCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006196

ORF Size: 1068 bp

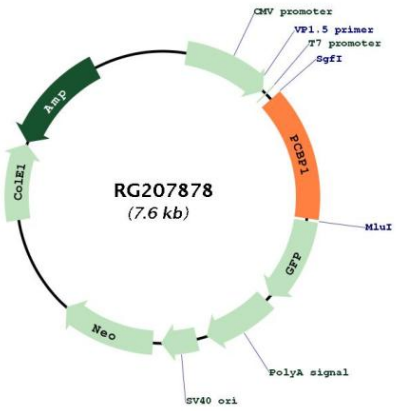
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_006196.4
RefSeq Size:	1634 bp
RefSeq ORF:	1071 bp
Locus ID:	5093
UniProt ID:	Q15365
Cytogenetics:	2p13.3
Domains:	KH
Protein Pathways:	Spliceosome
Gene Summary:	This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. It along with PCBP-2 and hnRNPK corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This encoded protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote poliovirus RNA replication by binding to its 5'-terminal cloverleaf structure. It has also been implicated in translational control of the 15-lipoxygenase mRNA, human Papillomavirus type 16 L2 mRNA, and hepatitis A virus RNA. The encoded protein is also suggested to play a part in formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207878