

## Product datasheet for **RC225457**

### PCBP2 (NM\_001128914) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PCBP2 (NM\_001128914) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PCBP2  
**Synonyms:** hnRNP-E2; HNRNPE2; HNRPE2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC225457 representing NM\_001128914  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACACCGGTGTGATTGAAGGTGGATTAATGTCACTCTCACCATCCGGCTACTTATGCATGGAAGG  
AAGTTGGCAGTATCATCGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACGTAT  
CAACATCTCAGAAGGGAATTGCTCTGAGAGAATTACACTTTGGCTGGACCCACTAATGCCATCTTCAA  
GCCTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCA  
GTAGACCCCGGTCACCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGAAAAAGGTGG  
ATGCAAGATCAAGGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAAC  
TCAACTGAGCGGGCCATCACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCG  
TGGTCATGTTGGAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCGTCCAGCTCTCCGGT  
CATCTTTGAGGTGGTCAGGCCTATACCATCAAGGACAGTATGCCATCCACAGCCAGATTTGACCAAG  
CTGCACCAGTTGGCAATGCAACAGTCTCATTTCCCATGACGCATGGCAACACCGGATTCAGTGCAGGTT  
TGGATGCATCTGCTCAGACTACTTCTCATGAACTCACCATTCCAAACGATTTGATTGGCTGCATAATCGG  
GCGTCAAGCGCCAAAATCAATGAGATCCGTGAGTGTCTGGGGCGCAGATCAAAATTGCGAACCCAGTG  
GAAGGATCTACTGATAGGCAGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATATCTAA  
TCAATGCAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC225457 representing NM\_001128914  
Red=Cloning site Green=Tags(s)

MDTGVIIEGGLNVLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK  
 AFAMIIDKLEEDISSSMTNSTAASRPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN  
 STERAITIAGIPQSIIECVKQICVVMLESPPKGVITIPYRKPSSSPVIFAGGQAYTIQGQYAIQPDLTK  
 LHQLAMQQSHFPMTHGNTGF SAGLDASAQTT SHELTPNDLIGCII GRQGAKINEIRQMSGAIKIANPV  
 EGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8051\\_e07.zip](https://cdn.origene.com/chromatograms/mk8051_e07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001128914

**ORF Size:** 954 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\\_001128914.1](#), [NP\\_001122386.1](#)

**RefSeq ORF:** 957 bp

**Locus ID:** 5094

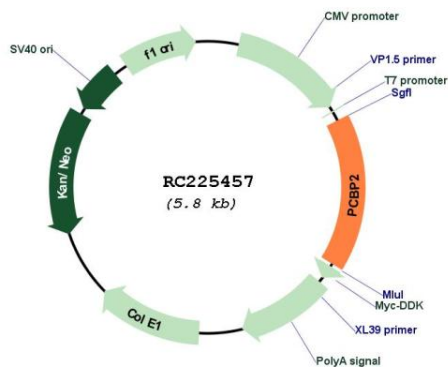
**UniProt ID:** [Q15366](#)

**Cytogenetics:** 12q13.13

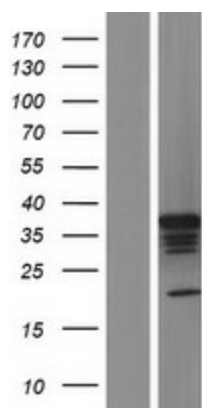
**MW:** 33.3 kDa

**Gene Summary:** The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions as a translational coactivator of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES, promoting 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. This multiexon structural mRNA is thought to be retrotransposed to generate PCBP-1, an intronless gene with functions similar to that of PCBP2. This gene and PCBP-1 have paralogous genes (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. This gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2018]

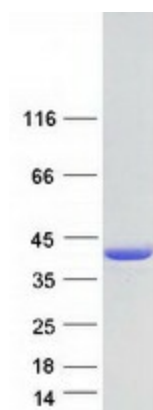
Product images:



Circular map for RC225457



Western blot validation of overexpression lysate (Cat# [LY427016]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225457 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PCBP2 protein (Cat# [TP325457]). The protein was produced from HEK293T cells transfected with PCBP2 cDNA clone (Cat# RC225457) using MegaTran 2.0 (Cat# [TT210002]).