

Product datasheet for **SC216227**

PCBP2 (NM_005016) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PCBP2 (NM_005016) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PCBP2
Synonyms:	hnRNP-E2; HNRNPE2; HNRPE2
ACCN:	NM_005016
Insert Size:	1750 bp



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Insert Sequence: >SC216227 3'UTR clone of NM_005016
 The sequence shown below is from the reference sequence of NM_005016. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAAATGCAGATTTCATCCATAATCCCTTTCTGCTGTTC
CCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATTCCAGTTTTAAATAGTTTGTAAA
TTTTAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGTTTTAATTCCTTTCTCT
GTTGAGCTGTTGATGCTGAGATCCATATTTAGTTTATAAGCTTCTCCCTGGTTTTTTTTTTTGGCTC
ATGAATTTTTCTGTTTGCATGGAATGTAAGAGTGAATATAATACATTTAGTTTGTGTAAT
GTCAGGAATTTTTCAAAAAAATAAAAGATGGACTGGAGCTTTTTCTTTGTGAATAGAACTGGATGCC
ACAGTGATTCATGTGGTTTTATCCTCTGTCTGTTATTTTTGTACCTTTATCCCTCAAAGGA
CCCTTCTGGGTTTTGAATGGAAGCCTTATCCGGTTAAGATGTTTTCTCTATTTACCCTCCAT
CTTTTTTGTGGCCCTCGATCCTATTTTTCCCTGACTCCATGCTTGGTTGGCCCTATAAAACTGTGC
CCAAAAGATTGAGGATTAGACTTTCCGAGGACTTACCTGTCTAGGGGAGTAGGCAAGCACTTCCACTA
GGGAGGGGGTGGGGAAAGGAATGACACATGACATACATGGCATAACATTAAGCAGTTGATCATATGT
CTGACTGGGTTCCAGTTTCTGGGAATGTTGGTCCCTTGTTCAGGCTTGATATTTAACTAAAAAT
TTCAGTCTATTGTTTTAGTAACTTCATTTATAGTCCCTCCATAACAAGTTAGAAGGATGTATCTGCTAC
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CATGTATGGTACCCCATTCATTCATCAAGAAAACCTCAACAGCTGGGCTGCATGGAGTGTATATTT
CAAGGTTTTTACAGGGTTACAGTAGGACAGTCCCCACCCCAATCAGGCACCAGGATAAAAAGCAGGGA
CTTAAACAGCACCCCGTTCTTACGCTGAGCCATCACATGCTATCAGTCTCCTAACCTCCCTGGGC
CTTAAAGACAGGGCTTGGGCAGAGAAGATAAATGGTGGGACAAAAAATGAGTTACATTGCCACCTGAGA
AACCTCAGAGGGGAGGCCAGCCTTAGCCTCCCTCCCAAGTCAAAAATGTGTAACAGAGTAAAC
GGAACAGAAAAGTGCAGTCTAAGTGGTTTTCTCTCTGCCCCTCCACCGCCCTCCCCCACCCTTA
TTATTTGGGGATAAAGAATATAAAGACAACCCTGGCTTTCTATTGCCTTGTGCTGCTGAATATAAG
GAATGGGGTGGGCAGGAAGGGGCTTGCCTTAGCCACAGCTCTACGGCTGTGCCTATTATTCCAC
AGCTGCCAGTGTCCCTAGAGTTTATCAGGTGAATTGGTCAGGGGATCAGTCTCCCTCGAGCCTGACTTA
CGGCTGGGACAGCCCATCTTTCTGTTGATTATGTGGCGCATATATATATATATATATATATATA
ATTTATATAAATATTTCTCTATGTA
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_005016.6](#)

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]

Locus ID:

5094

MW:

65.8