

Product datasheet for **TG302656**

PCBP2 Human shRNA Plasmid Kit (Locus ID 5094)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PCBP2 Human shRNA Plasmid Kit (Locus ID 5094)
Locus ID:	5094
Synonyms:	hnRNP-E2; HNRNPE2; HNRPE2
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PCBP2 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 5094). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	NM_001098620 , NM_001128911 , NM_001128912 , NM_001128913 , NM_001128914 , NM_005016 , NM_031989 , NM_031989.1 , NM_031989.2 , NM_031989.3 , NM_031989.4 , NM_005016.1 , NM_005016.2 , NM_005016.3 , NM_005016.4 , NM_005016.5 , NM_001098620.1 , NM_001098620.2 , NM_001128914.1 , NM_001128913.1 , NM_001128912.1 , NM_001128911.1 , BC001155 , BC001155.1 , BC071942 , BC071942.1 , BC107688 , BC035420 , BM764315 , NM_031989.5 , NM_005016.6 , NM_001098620.3 , NM_001128912.2 , NM_001128911.2
UniProt ID:	Q15366



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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]

shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).