

## Product datasheet for **TL314312**

### C4BPB Human shRNA Plasmid Kit (Locus ID 725)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	C4BPB Human shRNA Plasmid Kit (Locus ID 725)
Locus ID:	725
Synonyms:	C4BP
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	C4BPB - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 725). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u><a href="#">NM_000716</a></u> , <u><a href="#">NM_001017364</a></u> , <u><a href="#">NM_001017365</a></u> , <u><a href="#">NM_001017366</a></u> , <u><a href="#">NM_001017367</a></u> , <u><a href="#">NM_001017365.1</a></u> , <u><a href="#">NM_001017365.2</a></u> , <u><a href="#">NM_001017364.1</a></u> , <u><a href="#">NM_001017367.1</a></u> , <u><a href="#">NM_001017366.1</a></u> , <u><a href="#">NM_001017366.2</a></u> , <u><a href="#">NM_000716.1</a></u> , <u><a href="#">NM_000716.2</a></u> , <u><a href="#">NM_000716.3</a></u> , <u><a href="#">BC005378</a></u> , <u><a href="#">BC005378.1</a></u> , <u><a href="#">BM987840</a></u> , <u><a href="#">NM_001017366.3</a></u> , <u><a href="#">NM_001017365.3</a></u>
UniProt ID:	<u><a href="#">P20851</a></u>
Summary:	This gene encodes a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. A single, unique beta-chain encoded by this gene assembles with seven identical alpha-chains into the predominant isoform of C4b-binding protein, a multimeric protein that controls activation of the complement cascade through the classical pathway. C4b-binding protein has a regulatory role in the coagulation system also, mediated through the beta-chain binding of protein S, a vitamin K-dependent protein that serves as a cofactor of activated protein C. The genes encoding both alpha and beta chains are located adjacent to each other on human chromosome 1 in the regulator of complement activation gene cluster. Alternative splicing gives rise to multiple transcript variants. [provided by RefSeq, Jul 2008]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**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](mailto: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).