

Product datasheet for **TL319814**

Diazepam Binding Inhibitor (DBI) Human shRNA Plasmid Kit (Locus ID 1622)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Diazepam Binding Inhibitor (DBI) Human shRNA Plasmid Kit (Locus ID 1622)
Locus ID:	1622
Synonyms:	ACBD1; ACBP; CCK-RP; EP
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	DBI - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1622). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001079862 , NM_001079863 , NM_001178017 , NM_001178041 , NM_001178042 , NM_001178043 , NM_001282633 , NM_001282634 , NM_001282635 , NM_001282636 , NM_020548 , NR_104221 , NM_001352432 , NM_020548.1 , NM_020548.2 , NM_020548.3 , NM_020548.4 , NM_020548.5 , NM_020548.6 , NM_020548.7 , NM_001079862.1 , NM_001079862.2 , NM_001079863.1 , NM_001178043.1 , NM_001178043.2 , NM_001178042.1 , NM_001178042.2 , NM_001178041.1 , NM_001178041.2 , NM_001178017.1 , NM_001282636.1 , NM_001282633.1 , NM_001282634.1 , NM_001282635.1 , BC062996 , BC062996.1 , BC006466 , BM768076 , NM_001282633.2 , NM_001178041.3 , NM_001282636.2 , NM_020548.8 , NM_001282635.2 , NM_001282634.2 , NM_001079862.3 , NM_001178043.3 , NM_001079863.2 , NM_001178017.3 , NM_001178042.3
UniProt ID:	P07108



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- Summary:** This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene. [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 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).