

Product datasheet for **TF305084**

DCTN1 Human shRNA Plasmid Kit (Locus ID 1639)

Product data:

Product Type:	shRNA Plasmids
Product Name:	DCTN1 Human shRNA Plasmid Kit (Locus ID 1639)
Locus ID:	1639
Synonyms:	DAP-150; DP-150; P135
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	DCTN1 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 1639). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	NM_001135040 , NM_001135041 , NM_001190836 , NM_001190837 , NM_004082 , NM_023019 , NR_033935 , NM_004082.1 , NM_004082.2 , NM_004082.3 , NM_004082.4 , NM_023019.1 , NM_023019.2 , NM_023019.3 , NM_001135041.1 , NM_001135041.2 , NM_001135040.1 , NM_001135040.2 , NM_001190836.1 , NM_001190837.1 , BC071583 , BC006163 , BC013978 , NM_001190837.2 , NM_004082.5 , NM_001135041.3 , NM_001190836.2 , NM_023019.4 , NM_001135040.3
UniProt ID:	Q14203
Summary:	This gene encodes the largest subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. Dynactin is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit interacts with dynein intermediate chain by its domains directly binding to dynein and binds to microtubules via a highly conserved glycine-rich cytoskeleton-associated protein (CAP-Gly) domain in its N-terminus. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause distal hereditary motor neuronopathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA). [provided by RefSeq, Oct 2008]



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- 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).