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Product datasheet for TL313388

Neuro D4 (DPF1) Human shRNA Plasmid Kit (Locus ID 8193)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Neuro D4 (DPF1) Human shRNA Plasmid Kit (Locus ID 8193)
Locus ID:	8193
Synonyms:	BAF45b; NEUD4; neuro-d4
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	DPF1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 8193). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001135155, NM_001135156, NM_001289978, NM_004647, NM_004647.1, NM_004647.2, NM_004647.3, NM_001135156.1, NM_001135156.2, NM_001135155.1, NM_001135155.2, NM_001289978.1, BC125153, BC021191, BC125152, NM_001363579
UniProt ID:	Q92782
Summary:	May have an important role in developing neurons by participating in regulation of cell survival, possibly as a neurospecific transcription factor. Belongs to the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).[UniProtKB/Swiss-Prot Function]

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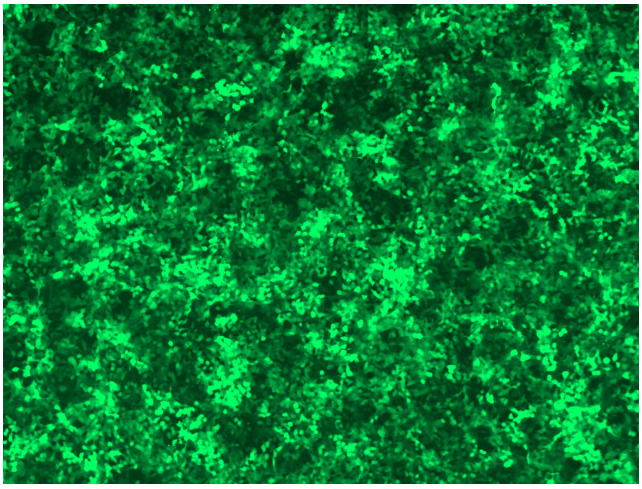
shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

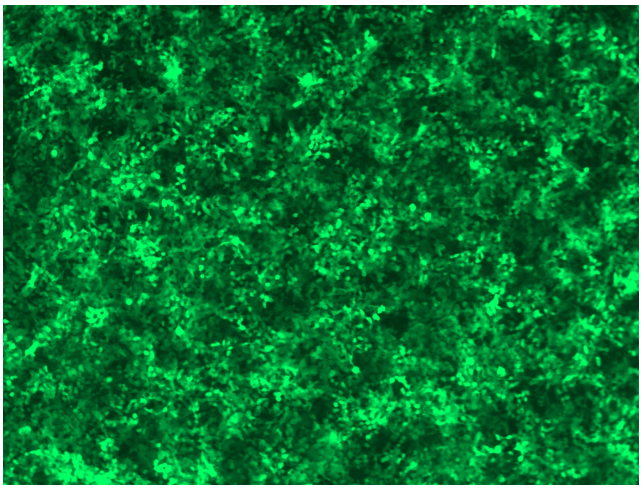
Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency 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).

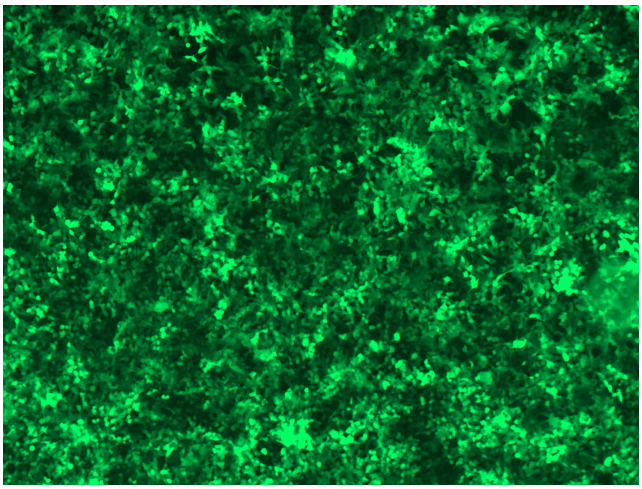
Product images:



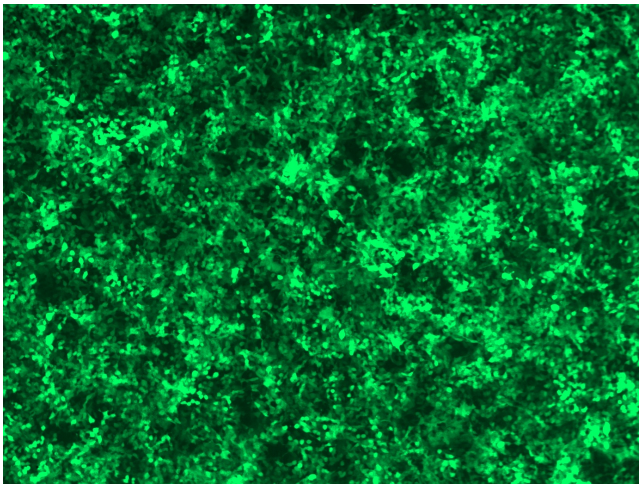
GFP signal was observed under microscope at 48 hours after transduction of TL313388A virus into HEK293 cells. TL313388A virus was prepared using lenti-shRNA TL313388A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL313388B virus into HEK293 cells. TL313388B virus was prepared using lenti-shRNA TL313388B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313388C] virus into HEK293 cells. [TL313388C] virus was prepared using lenti-shRNA [TL313388C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313388D] virus into HEK293 cells. [TL313388D] virus was prepared using lenti-shRNA [TL313388D] and [TR30037] packaging kit.