OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TL305635

Caspase 8 (CASP8) Human shRNA Plasmid Kit (Locus ID 841)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Caspase 8 (CASP8) Human shRNA Plasmid Kit (Locus ID 841)
Locus ID:	841
Synonyms:	ALPS2B; CAP4; Casp-8; FLICE; MACH; MCH5
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CASP8 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 841). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001080124, NM_001080125, NM_001228, NM_033355, NM_033356, NM_033357, NM_033358, NR_111983, NM_033356.1, NM_033356.2, NM_033356.3, NM_001080125.1, NM_033355.1, NM_033355.2, NM_033355.3, NM_033358.2, NM_033358.3, NM_001080124.1, NM_001228.1, NM_001228.2, NM_001228.3, NM_001228.4, BC010390, BC017031, BC028223, BC068050, NM_001080125.2, NM_033358.4, NM_033356.4, NM_001080124.2
UniProt ID:	Q14790

View online »

Summary:

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined. [provided by RefSeq, Jul 2008]

shRNA Design:

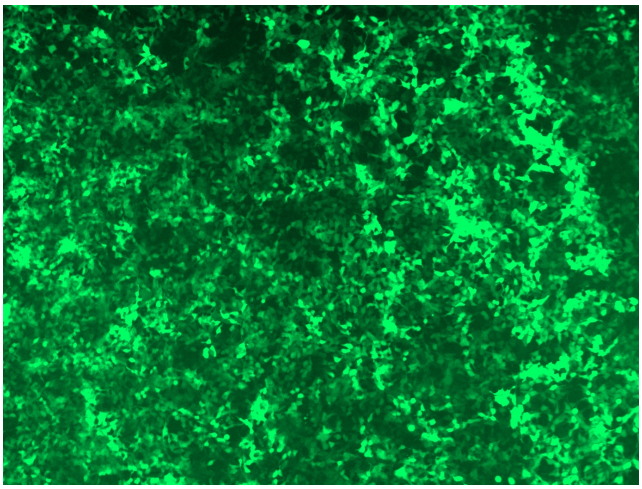
These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

Performance Guaranteed:

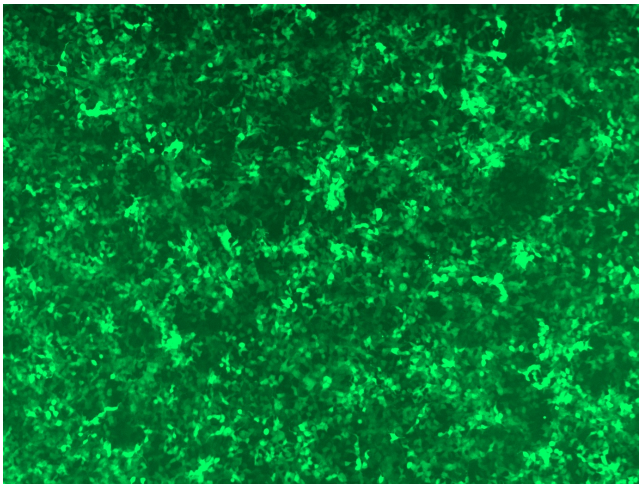
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

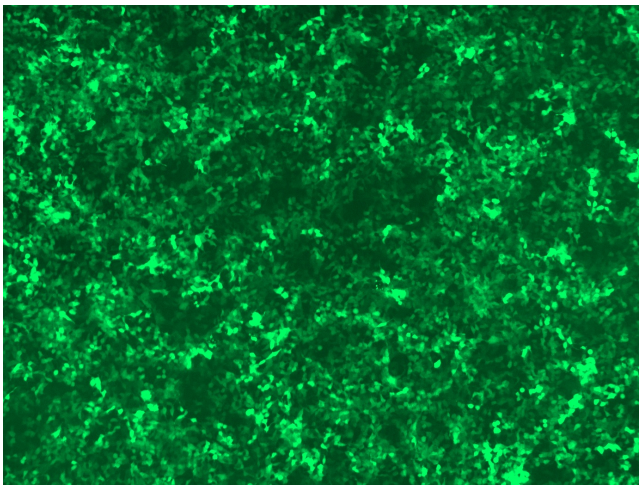
Product images:



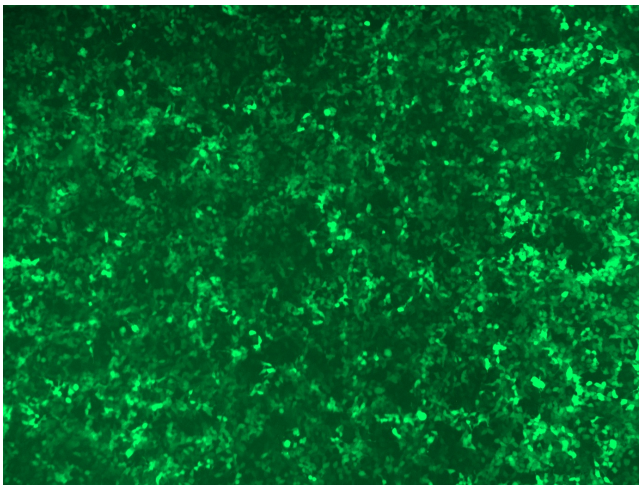
GFP signal was observed under microscope at 48 hours after transduction of TL305635A virus into HEK293 cells. TL305635A virus was prepared using lenti-shRNA TL305635A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL305635B virus into HEK293 cells. TL305635B virus was prepared using lenti-shRNA TL305635B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL305635C] virus into HEK293 cells. [TL305635C] virus was prepared using lenti-shRNA [TL305635C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL305635D] virus into HEK293 cells. [TL305635D] virus was prepared using lenti-shRNA [TL305635D] and [TR30037] packaging kit.