

Product datasheet for **RC200866L3V**

C11orf73 (HIKESHI) (NM_016401) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	C11orf73 (HIKESHI) (NM_016401) Human Tagged ORF Clone Lentiviral Particle
Symbol:	HIKESHI
Synonyms:	C11orf73; HLD13; HSPC138; HSPC179; L7RN6; OPI10
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_016401
ORF Size:	591 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200866).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_016401.2
RefSeq Size:	1187 bp
RefSeq ORF:	594 bp
Locus ID:	51501
UniProt ID:	Q53FT3
Cytogenetics:	11q14.2
MW:	21.6 kDa



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Gene Summary:

This gene encodes an evolutionarily conserved nuclear transport receptor that mediates heat-shock-induced nuclear import of 70 kDa heat-shock proteins (Hsp70s) through interactions with FG-nucleoporins. The protein mediates transport of the ATP form but not the ADP form of Hsp70 proteins under conditions of heat shock stress. Structural analyses demonstrate that the protein forms an asymmetric homodimer and that the N-terminal domain consists of a jelly-roll/beta-sandwich fold structure that contains hydrophobic pockets involved in FG-nucleoporin recognition. Reduction of RNA expression levels in HeLa cells using small interfering RNAs results in inhibition of heat shock-induced nuclear accumulation of Hsp70s, indicating a role for this gene in regulation of Hsp70 nuclear import during heat shock stress. [provided by RefSeq, Apr 2016]