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 RC209121L3V

Slingshot homolog 1 (SSH1) (NM_018984) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Slingshot homolog 1 (SSH1) (NM_018984) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SSH1
Synonyms:	SSH1L
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_018984
ORF Size:	3147 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC209121).`
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_018984.3
RefSeq Size:	4083 bp
RefSeq ORF:	3150 bp
Locus ID:	54434
UniProt ID:	Q8WYL5
Cytogenetics:	12q24.11
Domains:	DSPc
Protein Families:	Druggable Genome, Phosphatase

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Protein Pathways: Regulation of actin cytoskeleton

MW: 115.3 kDa

Gene Summary: The protein encoded by this gene belongs to the slingshot homolog (SSH) family of phosphatases, which regulate actin filament dynamics. The SSH proteins dephosphorylate and activate the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly. Cofilin is inactivated by kinases such as LIM domain kinase-1 (LIMK1), which may also be dephosphorylated and inactivated by SSH proteins. The SSH family thus appears to play a role in actin dynamics by reactivating cofilin proteins. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]