

## OriGene Technologies, Inc.

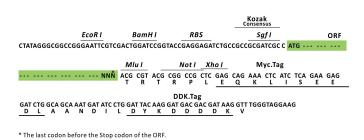
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## Product datasheet for RC223193L3

## C19orf46 (SYNE4) (NM\_001039876) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	C19orf46 (SYNE4) (NM_001039876) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	C19orf46
Synonyms:	C19orf46; DFNB76; KASH4; Nesp4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC223193).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:       Sgf I     ORF     Mlu I
	GCG ATC GCC ATG NNN ACG CGT



ACCN: NM\_001039876 ORF Size: 1212 bp



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C19orf46 (SYNE4) (NM_001039876) Human Tagged Lenti ORF Clone – RC223193L3	
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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
RefSeq:	<u>NM 001039876.1</u>
RefSeq Size:	1541 bp
RefSeq ORF:	1215 bp
Locus ID:	163183
UniProt ID:	<u>Q8N205</u>
Cytogenetics:	19q13.12
Protein Families:	Transmembrane
MW:	43.3 kDa
Gene Summary:	This gene is a member of the nesprin family of genes, that encode KASH (Klarsicht, Anc-1, Syne Homology) domain-containing proteins. In addition to the KASH domain, this protein also contains a coiled-coil and leucine zipper region, a spectrin repeat, and a kinesin-1 binding region. This protein localizes to the outer nuclear membrane, and is part of the linker of nucleoskeleton and cytoskeleton (LINC) complex in the nuclear envelope. LINC complexes are formed by SUN (Sad1, UNC-84)-KASH pairs, and are thought to mechanically couple nuclear components to the cytoskeleton. Mutations in this gene have been associated with progressive high-frequency hearing loss. The absence of this protein in mice also caused

hearing loss, and changes in hair cell morphology in the ears. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

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