

OriGene Technologies, Inc.

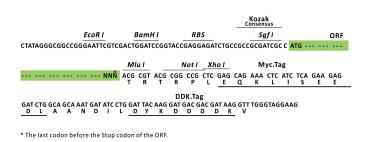
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Product datasheet for RC203872L3

Stefin B (CSTB) (NM_000100) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stefin B (CSTB) (NM_000100) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Stefin B
Synonyms:	CPI-B; CST6; EPM1; EPM1A; PME; STFB; ULD
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(RC203872).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I [GCG ATC GC]C <mark>ATG// NNŇ</mark> [ACG CGT]



ACCN: ORF Size: NM_000100 294 bp

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ORIGENE Stefin	B (CSTB) (NM_000100) Human Tagged Lenti ORF Clone – RC203872L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM 000100.2</u>
RefSeq Size:	940 bp
RefSeq ORF:	297 bp
Locus ID:	1476
UniProt ID:	<u>P04080</u>
Cytogenetics:	21q22.3
Domains:	CY
MW:	11.1 kDa

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Gene Summary:The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences.
Some of the members are active cysteine protease inhibitors, while others have lost or
perhaps never acquired this inhibitory activity. There are three inhibitory families in the
superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene
encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able
to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins I, h and b.
The protein is thought to play a role in protecting against the proteases leaking from
lysosomes. Evidence indicates that mutations in this gene are responsible for the primary
defects in patients with progressive myoclonic epilepsy (EPM1). One type of mutation
responsible for EPM1 is the expansion in the promoter region of this gene of a
CCCCGCCCCGCG repeat from 2-3 copies to 30-78 copies. [provided by RefSeq, Jul 2016]

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