

Product datasheet for **SC203375**

Stefin B (CSTB) (NM_000100) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Stefin B (CSTB) (NM_000100) Human 3' UTR Clone
Symbol:	Stefin B
Synonyms:	CPI-B; CST6; EPM1; EPM1A; PME; STFB; ULD
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000100
Insert Size:	282 bp
Insert Sequence:	>SC203375 3'UTR clone of NM_000100 The sequence shown below is from the reference sequence of NM_000100. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site
	GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC GCCAAGCATGATGAGCTGACCTATTT TGAT CCTGACTTTGGACAAGGCCCTTCAGCCAGAAGACTGAC AAAGTCATCCTCCGTCTACCAGAGCGTGCACCTTGATCCTAAAATAAGCTTCATCTCCGGGCTGTGCC CCTTGGGGTGAAGGGGAGGATTCTGCAGCTGCTTTTGCATTTCTTCTCTAAATTTTCATTGTGTTGA TTTCTTCTCCCAATAGGTGATCTTAATTACTTTTCAGAAATATTTTCAAATAGATATATTTTTAAAA TCCTTA ACGCGT AAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_000100.4</u>



[View online »](#)

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 CCCC GCCCGCG repeat from 2-3 copies to 30-78 copies. [provided by RefSeq, Jul 2016]

Locus ID:

1476

MW:

10.8