

Product datasheet for RC200278L3

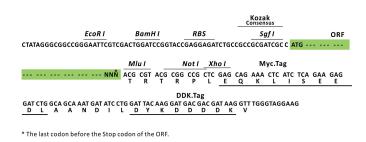
S100A1 (NM_006271) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	S100A1 (NM_006271) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	S100A1
Synonyms:	S100; S100-alpha; S100A
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(RC200278).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1 ORF Miu I GCG ATC GC[c ATG // NNN ACG CGT



ACCN: ORF Size: NM_006271 282 bp



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S100A1 (NM_006271) Human Tagged Lenti ORF Clone – RC200278L3	
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:	 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 006271.1</u>
RefSeq Size:	607 bp
RefSeq ORF:	285 bp
Locus ID:	6271
UniProt ID:	<u>P23297</u>
Cytogenetics:	1q21.3
MW:	10.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF- hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in stimulation of Ca2+- induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C- mediated phosphorylation. Reduced expression of this protein has been implicated in

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cardiomyopathies. [provided by RefSeq, Jul 2008]