Product datasheet for RR212859L4V

Stim1 (NM_001108496) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Stim1 (NM_001108496) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Stim1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001108496
ORF Size:	2055 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR212859).
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_001108496.2, NP_001101966.2
RefSeq Size:	3839 bp
RefSeq ORF:	2058 bp
Locus ID:	361618
UniProt ID:	P84903
Cytogenetics:	1q32

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Gene Summary: Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion of intracellular Ca(2+) stores (By similarity). Acts as Ca(2+) sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca(2+) release-activated Ca(2+) (CRAC) channel subunit ORAI1 (PubMed:16208375). Involved in enamel formation (By similarity). Activated following interaction with STIMATE, leading to promote STIM1 conformational switch (By similarity).[UniProtKB/Swiss-Prot Function]