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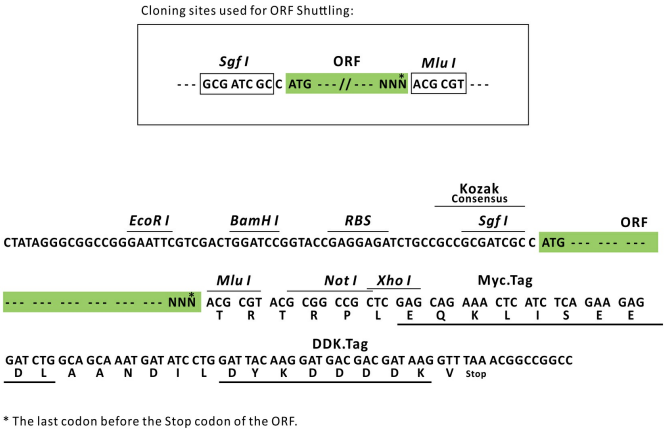
Product datasheet for RC212265L1

S1P (MBTPS1) (NM_003791) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S1P (MBTPS1) (NM_003791) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	S1P
Synonyms:	PCSK8; S1P; SEDKF; SKI-1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212265).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	



ACCN:	NM_003791
ORF Size:	3156 bp

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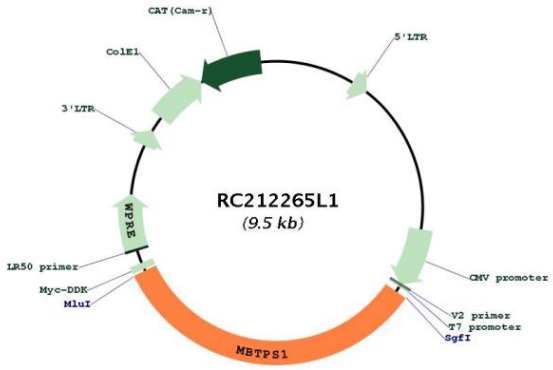
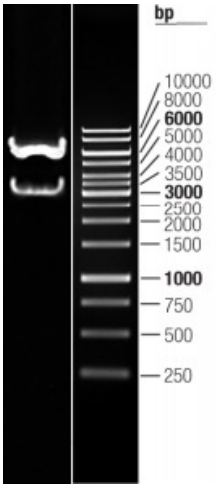
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
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:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. 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:	NM_003791.2
RefSeq Size:	4354 bp
RefSeq ORF:	3159 bp
Locus ID:	8720
UniProt ID:	Q14703
Cytogenetics:	16q23.3-q24.1
Domains:	Peptidase_S8
Protein Families:	Druggable Genome, Protease, Transcription Factors, Transmembrane
MW:	117.75 kDa
Gene Summary:	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to the cis/medial-Golgi where a second autocatalytic event takes place and the catalytic activity is acquired. It encodes a type 1 membrane bound protease which is ubiquitously expressed and regulates cholesterol or lipid homeostasis via cleavage of substrates at non-basic residues. Mutations in this gene may be associated with lysosomal dysfunction. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RC212265L1



Double digestion of RC212265L1 using SgfI and MluI