

Product datasheet for MR200068L4

Sem1 (NM_009169) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Sem1 (NM_009169) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Sem1
Synonyms:	DSS1; Shfdg1; Shfg; Shfm1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR200068).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCG ATC GC C ATG // NNN ACG CGT

									Koza		_			
EcoR I	1	Bam	нı		RE	35			S	gf I			OF	F
CTATAGGGCGGCCGGGAATTCGTC	GACT	GGAT	ccGG	ТАСС	GAG	GAGA	TCTG	ccGC	cGCG	ATCG	C C A	rg	 	-
	Miu I			Not IXho			no I	mGFP Ta						
NNŇ	ACG T	CGT R	ACG T	CGG R	CCG P	CTC L	GAG E	ATG M	AGC S	GGG G	GGC G			<u>.</u>
GGA CTC AGA GTT TGG G L R V	GTA	GGA	AGC											
* The last codon before the Stop c	odon	ofth	e ORF.											

ACCN: ORF Size: NM_009169 210 bp



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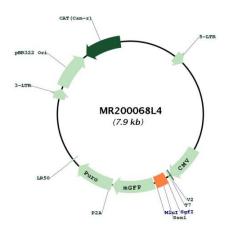
ORIGENE Sem1 (NM_009169) Mouse Tagged Lenti ORF Clone – MR200068L4
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 009169.1, NP 033195.1</u>
RefSeq Size:	491 bp
RefSeq ORF:	213 bp
Locus ID:	20422
UniProt ID:	<u>P60897</u>
Cytogenetics:	6 A1
Gene Summary:	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. Component of the TREX-2 complex (transcription and export complex 2), composed of at least ENY2, GANP, PCID2, SEM1, and either centrin CETN2 or CETN3. The TREX-2 complex functions in docking export-competent ribonucleoprotein particles (mRNPs) to the nuclear entrance of the nuclear pore complex (nuclear basket). TREX-2 participates in mRNA export and accurate chromatin positioning in the nucleus by tethering genes to the nuclear periphery. Binds and stabilizes BRCA2 and is thus involved in the control

of R-loop-associated DNA damage and thus transcription-associated genomic instability. Rloop accumulation increases in SEM1-depleted cells.[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for MR200068L4

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