

## Product datasheet for **MR208287L4V**

### **Sgol1 (Sgo1) (NM\_028232) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Sgol1 (Sgo1) (NM_028232) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Sgo1
Synonyms:	3300001M08Rik; C81037; Sgo1; Sgol1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_028232
ORF Size:	1551 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR208287).
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. <a href="#">More info</a>
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:	<a href="#">NM_028232.2</a> , <a href="#">NP_082508.1</a>
RefSeq Size:	3609 bp
RefSeq ORF:	1554 bp
Locus ID:	72415
UniProt ID:	<a href="#">Q9CXH7</a>
Cytogenetics:	17 C



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**Gene Summary:**

Plays a central role in chromosome cohesion during mitosis by preventing premature dissociation of cohesin complex from centromeres after prophase, when most of cohesin complex dissociates from chromosomes arms. May act by preventing phosphorylation of the STAG2 subunit of cohesin complex at the centromere, ensuring cohesin persistence at centromere until cohesin cleavage by ESPL1/separase at anaphase. Essential for proper chromosome segregation during mitosis and this function requires interaction with PPP2R1A. Its phosphorylated form is necessary for chromosome congression and for the proper attachment of spindle microtubule to the kinetochore. Necessary for kinetochore localization of PLK1 and CENPF. May play a role in the tension sensing mechanism of the spindle-assembly checkpoint by regulating PLK1 kinetochore affinity. Involved in centromeric enrichment of AUKRB in prometaphase.[UniProtKB/Swiss-Prot Function]