

## Product datasheet for **RC222805L4V**

### **SIM1 (NM\_005068) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	SIM1 (NM_005068) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SIM1
Synonyms:	bHLHe14
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005068
ORF Size:	2298 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222805).
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_005068.2</a>
RefSeq Size:	3995 bp
RefSeq ORF:	2301 bp
Locus ID:	6492
UniProt ID:	<a href="#">P81133</a>
Cytogenetics:	6q16.3
Protein Families:	Druggable Genome, Transcription Factors
MW:	85.3 kDa



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**Gene Summary:**

SIM1 and SIM2 genes are Drosophila single-minded (sim) gene homologs. SIM1 transcript was detected only in fetal kidney out of various adult and fetal tissues tested. Since the sim gene plays an important role in Drosophila development and has peak levels of expression during the period of neurogenesis, it was proposed that the human SIM gene is a candidate for involvement in certain dysmorphic features (particularly the facial and skull characteristics), abnormalities of brain development, and/or cognitive disability of Down syndrome. [provided by RefSeq, Jul 2008]