

## Product datasheet for **RC216257L4V**

### **SIM2 (NM\_009586) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	SIM2 (NM_009586) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SIM2
Synonyms:	bHLHe15; HMC13F06; HMC29C01; SIM
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_009586
ORF Size:	1710 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC216257).
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_009586.1</a>
RefSeq Size:	2823 bp
RefSeq ORF:	1713 bp
Locus ID:	6493
UniProt ID:	<a href="#">Q14190</a>
Cytogenetics:	21q22.13
Protein Families:	Druggable Genome, Transcription Factors
MW:	63.3 kDa



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**Gene Summary:**

This gene represents a homolog of the *Drosophila* single-minded (*sim*) gene, which encodes a transcription factor that is a master regulator of neurogenesis. The encoded protein is ubiquitinated by RING-IBR-RING-type E3 ubiquitin ligases, including the parkin RBR E3 ubiquitin protein ligase. This gene maps within the so-called Down syndrome chromosomal region, and is thus thought to contribute to some specific Down syndrome phenotypes. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2014]