

## Product datasheet for **RC224777L4V**

### PER1 (NM\_002616) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	PER1 (NM_002616) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PER1
Synonyms:	hPER; PER; RIGUI
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002616
ORF Size:	3870 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224777).
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_002616.1</a> , <a href="#">NP_002607.1</a>
RefSeq Size:	4656 bp
RefSeq ORF:	3873 bp
Locus ID:	5187
UniProt ID:	<a href="#">O15534</a>
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Circadian rhythm - mammal



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**MW:** 136 kDa

**Gene Summary:** This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers. Alternative splicing has been observed in this gene; however, these variants have not been fully described. [provided by RefSeq, Jan 2014]