

## Product datasheet for **RC217739L2V**

### PER3 (NM\_016831) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | PER3 (NM_016831) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | PER3   |
| Synonyms:                 | FASPS3; GIG13  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| Tag:                      | mGFP   |
| ACCN:                     | NM_016831  |
| ORF Size:                 | 3603 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC217739).   |
| 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_016831.1</a>  |
| RefSeq Size:              | 6203 bp  |
| RefSeq ORF:               | 3606 bp  |
| Locus ID:                 | 8863   |
| UniProt ID:               | <a href="#">P56645</a>   |
| Cytogenetics:             | 1p36.23  |
| Domains:                  | PAS  |
| Protein Families:         | Druggable Genome, Transcription Factors  |



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**Protein Pathways:** Circadian rhythm - mammal

**MW:** 131.7 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 have been linked to sleep disorders. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2014]