

## Product datasheet for **RC218759L4V**

### **Prol1 (OPRPN) (NM\_021225) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Prol1 (OPRPN) (NM_021225) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Prol1
Synonyms:	BPLP; opiorphin; PRL1; PROL1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_021225
ORF Size:	744 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218759).
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_021225.4</a>
RefSeq Size:	1060 bp
RefSeq ORF:	747 bp
Locus ID:	58503
UniProt ID:	<a href="#">Q99935</a>
Cytogenetics:	4q13.3
Protein Families:	Secreted Protein
MW:	27 kDa



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**Gene Summary:**

This gene encodes a member of the proline-rich protein family. The encoded protein has multiple proposed functions, including roles in pain suppression, penile erection, and protection of the eye surface. The QRFSR pentapeptide, known as opiorphin, is derived from the N-terminal of this protein. Opiorphin inhibits the enkephalin-inactivating peptidases neprilysin and aminopeptidase N, and this activity is thought to reduce sensitivity to painful stimuli by effecting enkephalin-related activation of opioid-dependent pathways. Opiorphin may also act as an anti-depressant. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]