

## Product datasheet for **RC212459L1V**

### **GCN2 (EIF2AK4) (NM\_001013703) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	GCN2 (EIF2AK4) (NM_001013703) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GCN2
Synonyms:	GCN2; PVOD2
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_001013703
ORF Size:	4947 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212459).
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_001013703.2</a> , <a href="#">NP_001013725.2</a>
RefSeq Size:	5532 bp
RefSeq ORF:	4950 bp
Locus ID:	440275
UniProt ID:	<a href="#">Q9P2K8</a>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	187.4 kDa



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**Gene Summary:**

This gene encodes a member of a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor-2 (EIF2), resulting in the downregulation of protein synthesis. The encoded protein responds to amino acid deprivation by binding uncharged transfer RNAs. It may also be activated by glucose deprivation and viral infection. Mutations in this gene have been found in individuals suffering from autosomal recessive pulmonary venoocclusive-disease-2. [provided by RefSeq, Mar 2014]