

## Product datasheet for **RC222804L4V**

### OPN1SW (NM\_001708) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	OPN1SW (NM_001708) Human Tagged ORF Clone Lentiviral Particle
Symbol:	OPN1SW
Synonyms:	BCP; BOP; CBT
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001708
ORF Size:	1044 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222804).
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_001708.1</a> , <a href="#">NP_001699.1</a>
RefSeq Size:	1101 bp
RefSeq ORF:	1047 bp
Locus ID:	611
UniProt ID:	<a href="#">P03999</a>
Cytogenetics:	7q32.1
Protein Families:	Druggable Genome, Transmembrane
MW:	39 kDa


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**Gene Summary:**

This gene belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic. [provided by RefSeq, Jul 2008]