

## Product datasheet for **RC212968L3V**

### **C19orf28 (MFSD12) (NM\_001042680) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

<b>Product Type:</b>	Lentiviral Particles
<b>Product Name:</b>	C19orf28 (MFSD12) (NM_001042680) Human Tagged ORF Clone Lentiviral Particle
<b>Symbol:</b>	C19orf28
<b>Synonyms:</b>	C19orf28; PP3501
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Vector:</b>	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
<b>Tag:</b>	Myc-DDK
<b>ACCN:</b>	NM_001042680
<b>ORF Size:</b>	1419 bp
<b>ORF Nucleotide Sequence:</b>	The ORF insert of this clone is exactly the same as(RC212968).
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>RefSeq:</b>	<a href="#">NM_001042680.1</a> , <a href="#">NP_001036145.1</a>
<b>RefSeq Size:</b>	2082 bp
<b>RefSeq ORF:</b>	1421 bp
<b>Locus ID:</b>	126321
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	51 kDa



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**Gene Summary:**

Transporter that mediates the import of cysteine into melanosomes, thereby regulating skin pigmentation (PubMed:33208952). In melanosomes, cysteine import is required both for normal levels of cystine, the oxidized dimer of cysteine, and provide cysteine for the production of the cysteinyl dopas used in pheomelanin synthesis, thereby regulating skin pigmentation (PubMed:33208952). Also catalyzes import of cysteine into lysosomes in non-pigmented cells (PubMed:33208952).[UniProtKB/Swiss-Prot Function]