

## Product datasheet for **RC215728L4V**

### Synaptopodin 2 (SYNPO2) (NM\_133477) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Synaptopodin 2 (SYNPO2) (NM_133477) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Synaptopodin 2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_133477
ORF Size:	3783 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215728).
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_133477.1</a> , <a href="#">NP_597734.1</a>
RefSeq Size:	7318 bp
RefSeq ORF:	3786 bp
Locus ID:	171024
UniProt ID:	<a href="#">Q9UMS6</a>
Cytogenetics:	4q26
MW:	136.2 kDa



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**Gene Summary:**

Has an actin-binding and actin-bundling activity. Can induce the formation of F-actin networks in an isoform-specific manner (PubMed:24005909, PubMed:23225103). At the sarcomeric Z lines is proposed to act as adapter protein that links nascent myofibers to the sarcolemma via ZYX and may play a role in early assembly and stabilization of the Z lines. Involved in autophagosome formation. May play a role in chaperone-assisted selective autophagy (CASA) involved in Z lines maintenance in striated muscle under mechanical tension; may link the client-processing CASA chaperone machinery to a membrane-tethering and fusion complex providing autophagosome membranes (By similarity). Involved in regulation of cell migration (PubMed:22915763, PubMed:25883213). May be a tumor suppressor (PubMed:16885336).[UniProtKB/Swiss-Prot Function]