

## Product datasheet for **RC215323L2V**

### **FYCO1 (NM\_024513) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	FYCO1 (NM_024513) Human Tagged ORF Clone Lentiviral Particle
Symbol:	FYCO1
Synonyms:	CATC2; CTRCT18; RUFY3; ZFYVE7
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_024513
ORF Size:	4434 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215323).
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_024513.1</a>
RefSeq Size:	8518 bp
RefSeq ORF:	4437 bp
Locus ID:	79443
UniProt ID:	<a href="#">Q9BQS8</a>
Cytogenetics:	3p21.31
MW:	167 kDa



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**Gene Summary:**

The gene encodes a Rab7 adapter protein that is implicated in the microtubule transport of autophagosomes. The encoded protein contains a RUN domain, a FYVE-type zinc finger domain, and Golgi dynamics (GOLD) domain. The encoded protein plays a role in microtubule plus end-directed transport of autophagic vesicles through interactions with the small GTPase Rab7, phosphatidylinositol-3-phosphate (PI3P), the autophagosome marker LC3, and the kinesin KIF5. Mutations in this gene are associated with inclusion body myositis (IBM) and autosomal recessive congenital cataracts (CATC2). [provided by RefSeq, Aug 2020]