

## Product datasheet for **RG215323**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FYCO1 (NM_024513) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FYCO1
Synonyms:	CATC2; CTRCT18; RUFY3; ZFYVE7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215323 representing NM_024513 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

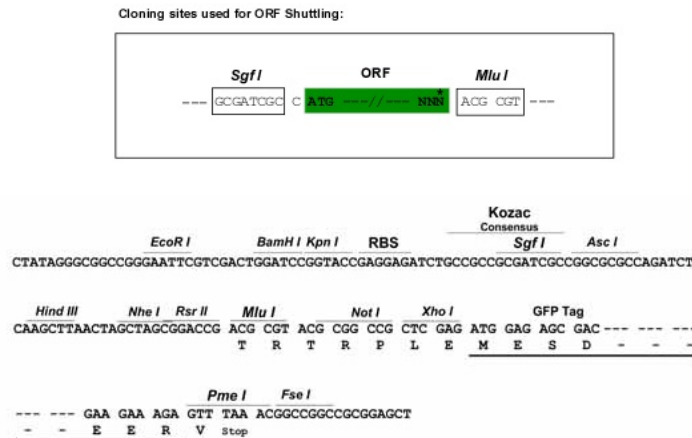
**Protein Sequence:** >RG215323 representing NM\_024513  
 Red=Cloning site Green=Tags(s)

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 FSVVFEAEDTPLDQCKVLIPTTRCNHSHKNIQGLKVRTPGIYMLIFDNTFSRFVSKKVFYHLTVDRPV  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

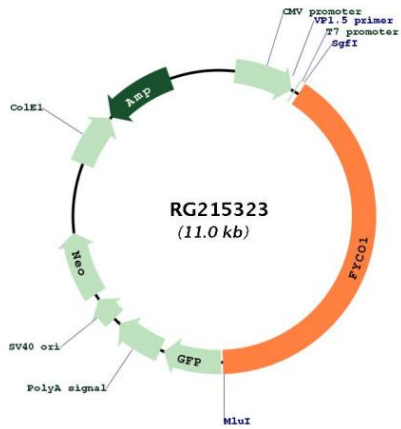


**ACCN:** NM\_024513

**ORF Size:** 4434 bp

<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>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024513.4</a>
<b>RefSeq Size:</b>	8500 bp
<b>RefSeq ORF:</b>	4437 bp
<b>Locus ID:</b>	79443
<b>UniProt ID:</b>	<a href="#">Q9BQS8</a>
<b>Cytogenetics:</b>	3p21.31
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG215323