

## Product datasheet for PH315323

### FYCO1 (NM\_024513) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FYCO1 MS Standard C13 and N15-labeled recombinant protein (NP_078789)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215323
Predicted MW:	167 kDa
Protein Sequence:	>RC215323 protein sequence Red=Cloning site Green=Tags(s)

MASTNAESQLQRIIRDLDQAVTELSKEFQEQAGEPITDDSTSLHKFSYKLEYLLQFDQKEKATLLGNKKDY  
WDYFCACLAKVKGANDGIRFVKISSELRTSLGKGRAFIRYSLVHQRLADTLQQCFMNTKVTSDWYYARSP  
FLQPKLSSDIVGQLYELTEVQFDLASRQFDLDAAWPTFARRTLTTGSSAYLWKPPSRSSSMSSLVSSYLQ  
TQEMVSNFDLNSPLNNEALEGFDEMRELDQLEVRKQLRERMQLDRENQELRAAVSQQGEQLQTERER  
GRATAEDNVRLTCLVAELQKQWEVTQATQNTVKELQTCLQGLELGAEEKEEDYHTALRRLESMLQPLAQE  
LEATRDSLDKKNQHLASFPGWLAQAQKADTASDTKGRQEPSPDAAQEMQELGEKLQALERERTKVEEV  
NRQQAQLEQLVKELQLKEDARASLERLVKEMAPLQEELSGKGQEQADQLWRRLQELLHAHTSSWEEELAE  
RREKKQQQEEKELLEQEVRSLTRQLQFLETQLAQVSHVSDLEEQKKQLIQDKDHLQQVGMLERLAGPP  
GPELPVAGEKNEALVPVNSSLQEAWGKPEEQRGLQEAQLDDTKVQEGSQEEELRQANRELEKELQNVVG  
RNQLLEGLKQALQADYQALQQRSAIQGSLASLEAEQASIRHLGDQMEASLLAVRKAKEAMKAQMAEKEA  
ILQSKGEGEQQLREEVEQCQQLAEARHRELRALESQCQQQTQLIEVLTAEKGGQGVGPPPTDNEARELAAQ  
LALSQAQLEVHQGEVQRLQAQVVDLQAKMRAALDDQDKVQSQLSMAEAVLREHKTLLVQQLKEQNEALNRA  
HVQELLQCSEREGALQEERADEAQQREEELRALQEELSQAKCSSEEAQLEHAELQEQLHRANTDTAELGI  
QVCALTVEKERVEEALACAVQELQDAKEAASREREGLERQVAGLQQEKEKSLQEKLKAACAAAGSLPGLQA  
QLAQAEQRAQSLQEAHQELNLTQKFLSAEIMDYQSRLKNAGEECKSLRGQLEEQGRQLQAAEEAVEKLLK  
ATQADMGEKLSCTSNHLAECQAAMLRKDKKEGAALREDLERTQKELEKATTKIQEYYNKLCQEVNTRERND  
QKMLADLDDLNRTKKYLEERLIELLRDKDALWQKSDALEFQQKLSAEERWLGDTAEANHCLDCKREFSWMV  
RRHHCRIICGRIFCYCCNYYVL SKHGGKKERCCACFQKLSGPGSPDSSGSGTSGQEPSPALSPASPGP  
QATGGQGANTDYRPPDDAVFDIITDEELCQIQESGSSLPETPTETDSDLPNAAEQDTTSTSLTPEDTEDM  
PVGQDSEICLLKSGELMIKIVPLTVDEIASFGEGRSRELFVRSSTYSLIPITVAEAGLTISWVFSDDPKSIS  
FSVVFQEAEDTPLDQCKVLIPTTRCNHSHKENIQGQLKVRTPGIYMLIFDNTFSRFVSKKVFYHLTVDRPV  
IYDGSDFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining

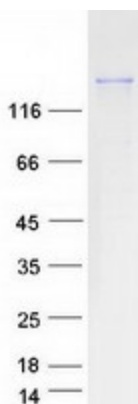


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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_078789</a>
RefSeq Size:	8518
RefSeq ORF:	4434
Synonyms:	CATC2; CTRCT18; RUFY3; ZFYVE7
Locus ID:	79443
UniProt ID:	<a href="#">Q9BQS8</a>
Cytogenetics:	3p21.31

**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]

## Product images:



Coomassie blue staining of purified FYCO1 protein (Cat# [TP315323]). The protein was produced from HEK293T cells transfected with FYCO1 cDNA clone (Cat# [RC215323]) using MegaTran 2.0 (Cat# [TT210002]).