

## Product datasheet for SC122375

### FYCO1 (BC007218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FYCO1 (BC007218) Human Untagged Clone
Tag:	Tag Free
Symbol:	FYCO1
Synonyms:	DKFZp779K1152; FLJ13335; FYVE and coiled-coil domain containing 1; MGC126517; MGC126519; OTTHUMP00000164650; RUFY3; RUN and FYVE domain containing 3; ZFYVE7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC007218 edited

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CCAGCTTGCATAAATTTTCTTATAAACTTGAGTATCTCCTGCAATTTGATCAGAAAGAGA
AGGCCACCCTCCTGGGCAACAAGAAGGACTACTGGGATTACTTCTGTGCCTGCCTGGCCA
AGGTGAAAGGAGCCAATGATGGGATCCGATTTGTCAAGTCTATCTCAGAGCTCCGAACAT
CCTTGGGGAAAGGAAGAGCATTATTTCGCTACTCCTTGGTGCACAGAGGTTGGCAGACA
CCTTACAGCAGTGCTTTCATGAACACCAAAGTGACCAAGTACTGGTACTATGCAAGAAGCC
CCTTCTGCAGCCAAAGCTGAGCTCGGACATTGTGGGCCAACTCTATGAGCTGACTGAGG
TTCAGTTTGACCTGGCGTCGAGGGGCTTTGACTTGGATGCTGCCTGGCCAACATTTGCCA
GGAGGACGCTGACCACTGGCTCTTCTGCTTACCTGTGGAACCCCTAGCCGAGCTCCA
GCATGAGCAGCTTGGTGAGCAGCTACCTGCAGACTCAAGAGATGGTGTCCAACATTTGACC
TGAACAGCCCCCTAAACAACGAGGCATTGGAGGGCTTTGATGAGATGCGACTAGAGCTGG
ACCAGTTGGAGGTGCGGGAGAAGCAGCTACAGGAGCGCATGCAGCAGCTGGACAGAGAGA
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GGGGGCGCACTGCAGCGGAGGACAACGTTCCGCTCACTTGGTGGTAGCTGAGCTCCAGA
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AGGCCCTGGAGCTAGGAGCAGCAGAGAAGGAGGAGGACTACCACACAGCCCTGCGGCGGC
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AGAAAAACCAGCATTTAGCCAGCTTCCCAGGCTGGCTAGCCATGGCCCTGCATGTTGGAG
ACTGAGCTGGGTGCACTGGCCATGCCCTGTGAATCCTCGGGCTGTGACGCCCTCAGGTAC
TCCTGGGAAAAGGAGGTACACAGCCATCGTGCGAGTCGGTGCCAGGGGACCCCCGGAGA
TCCTGACCAGCTCCTCCAGTCATGCTCTTGTCCCTCACTGCCCAAGTAAGCTGGAGGCT
CTCCAGAACTCAGCAGTGTGGAGGGCCCTAAAGCTGCACTCTCTTTCTGGCCCTTTTG
TCTGGCTGATTCTGCTCCTCAAATAAAGCCCTTCACTCAGCCAGACCTCTCCACAGCTCAA
AGCATTGCCCTAAGAATCAGAAGTAAAGATAATCCAAGAGCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for BC007218 unedited</p> <pre>NNNGGCAGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCA GCTTGCAATAAATTTCTTATAAACTTGAGTATCTCCTGCAATTTGATCAGAAAGAGAAGG CCACCCTCCTGGGCAACAAGAAGGACTACTGGGATTACTTCTGTGCCTGCCTGGCCAAGG TGAAAGGAGCCAATGATGGGATCCGATTTGTCAAGTCTATCTCAGAGCTCCGAACATCCT TGGGAAAAGGAAGAGCATTATTCGCTACTCCTTGGTGCACCAGAGTTGGCAGACACCT TACAGCAGTGCTTCATGAACACCAAAGTGACCAGTGACTGGTACTATGCAAGAAGCCCCT TTCTGCAGCCAAAGCTGAGCTCGGACATTGTGGGCCAACTCTATGAGCTGACTGAGGTTC AGTTTGACCTGGCGTCGAGGGGCTTTGACTTGGATGCTGCCTGGCCAACATTTGCCAGGA GGACGCTGACCACTGGCTCTTCTGCTTACCTGTGGAAACCCCCTAGCCGAGCTCCAGCA TGAGCAGCTTGGTGAGCAGCTACCTGCAGACTCAAGAGATGGTGTCCAACTTTGACCTGA ACAGCCCCCTAAACAACGAGGCATTGGAGGGCTTTGATGAGATGCGACTAGAGCTGGACC AGTTGGAGGTGCGGGAGAAGCAGCTACAGGAGCGCATGCAGCAGCTGGACAGAGAGAACC AGGAGCTGAGGGCAGCTGTCAGCCAGCAAGGGGAGCAACTGCANACAGAGAGGGAGAGGG GGCGCACTGCAGNCGGAGACAACGTTTCGCCTCACTTGCTTGGTAGCTGAGCTCCAGAAGC AGTGGGGAGTCACCCAGGCCACCCAAACACTGTGAAAGAGCTGC</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC007218
<b>Insert Size:</b>	1398 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">BC007218.1</a></u> , <u><a href="#">AAH07218.1</a></u>
<b>RefSeq Size:</b>	1398 bp
<b>Locus ID:</b>	79443
<b>Cytogenetics:</b>	3p21.31

**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]