

## Product datasheet for **RG213945**

### **FXYD3 (NM\_005971) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FXYD3 (NM\_005971) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FXYD3  
**Synonyms:** MAT8; PLML  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG213945 representing NM\_005971  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAAGGTGACCCTGGGCTGCTTGTGTTCTTGGCAGGCTTTCCTGTCCTGGACGCCAATGACCTAG  
AAGATAAAACAGTCCTTCTACTATGACTGGCACAGCCTCCAGGTTGGCGGGCTCATCTGCGCTGGGGT  
TCTGTGCGCCATGGGCATCATCGTCATGAGTGCAAATGCAAATGCAAGTTTGGCCAGAAGTCCGGT  
CACCATCCAGGGGAGACTCCACCTCTCATACCCAGGCTCAGCCCAAAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG213945 representing NM\_005971  
**Red**=Cloning site **Green**=Tags(s)  
MQKVTLGLLVFLAGFPVLDANDLEDKNSPFYYDWHSLQVGLICAGVLCAMGIIIVMSAKCKCKFGQKSG  
HHPGETPPLITPGSAQS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<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_005971.4</a>
<b>RefSeq Size:</b>	1304 bp
<b>RefSeq ORF:</b>	264 bp
<b>Locus ID:</b>	5349
<b>UniProt ID:</b>	<a href="#">Q14802</a>
<b>Cytogenetics:</b>	19q13.12
<b>Domains:</b>	ATP1G1_PLM_MAT8
<b>Protein Families:</b>	Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	This gene belongs to a small family of FXYD-domain containing regulators of Na <sup>+</sup> /K <sup>+</sup> ATPases which share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD, and containing 7 invariant and 6 highly conserved amino acids. This gene encodes a cell membrane protein that may regulate the function of ion-pumps and ion-channels. This gene may also play a role in tumor progression. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2008]