

## Product datasheet for **RG227092**

### **FXYD3 (NM\_001136007) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FXYD3 (NM\_001136007) 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:** >RG227092 representing NM\_001136007  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAAGGGGTATAGTGGGCCTTGCAGGCCAGAGGTGGCTTGGAGGAGCCCCGAAAGAGGCTTAA  
 GAGGCCGAGTTTCACCCAGTCCCAGTCCACGGTGCAGCTGCGGCTTATCTCTCAGCCCAGCGAGATGC  
 CAGCCTTCTGTCCGGGCCAGCGCTCTGACATGCAGAAGGTGACCCCTGGGCTGCTTGTGTTCTGGCA  
 GGCTTTCTGTCTGGACCCAATGACCTAGAAGATAAAAACAGTCCTTTCTACTATGACTGGCACAGCC  
 TCCAGTTGGCGGCTCATCTGCGCTGGGTTCTGTGCGCCATGGGCATCATCATCGTCATGAGTGCAAA  
 ATGCAAAATGCAAGTTTGGCCAGAAGTCCGGTACCATCCAGGGGAGACTCCACCTCTCATACCCCAGGC  
 TCAGCCAAAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227092 representing NM\_001136007  
 Red=Cloning site Green=Tags(s)

MGRGYSGALQARGGLEEPLERGLRGPSTQSPFHGAAAAYLSAQRDASLPVPGQRSDMQKVTLLVFLA  
 GFPVLDANDLEDKNSPFYYDWHSLQVGGGLICAGVLCAMGIIIVMSAKCKCKFGQKSGHHPGETPPLITPG  
 SAQS

**TRTRPLE** - GFP Tag - V

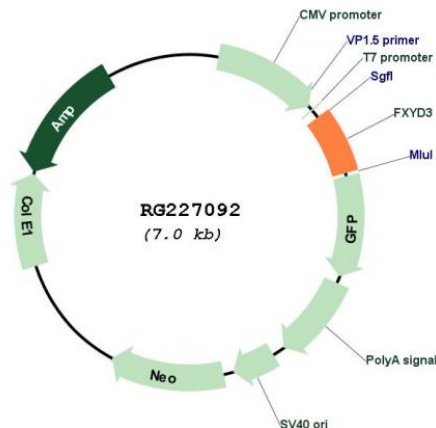
**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001136007

**ORF Size:** 432 bp

**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. [More info](#)

**OTI Annotation:** 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>	<u>NM_001136007.2</u>
<b>RefSeq Size:</b>	1588 bp
<b>RefSeq ORF:</b>	435 bp
<b>Locus ID:</b>	5349
<b>UniProt ID:</b>	<u>Q14802</u>
<b>Cytogenetics:</b>	19q13.12
<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]