

## Product datasheet for **MG200238**

### **Fxyd1 (NM\_052992) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fxyd1 (NM\_052992) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fxyd1  
**Synonyms:** 0610012C17Rik; 1110006M24Rik; P; Plm; Pml  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200238 representing NM\_052992  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCATCTCCCGGCCACATCCTGGCTCTGTGTGTGTCTCTCTCCATGGCCAGTGCAGAAGCTCCAC  
 AGGAACCGGATCCATTACCTACGATTACCACACCCTGCGGATCGGCGGCCTCACTATCGCTGGGATCCT  
 CTTTCATCTTGGGCATCCTTATCATCCTTAGCAAGAGATGTCGATGCAAATCAACCAACAGCAGAGAACT  
 GGGGAACCGACGAAGAGGAGGGAACCTTCCGAGCTCCATCCGCGTCTGTCATCCCGAGGCGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200238 representing NM\_052992  
 Red=Cloning site Green=Tags(s)

MASPGHILALCVCLLSMASAEAPQEPDPFTYDHTLRIGGLTIAGILFILGILIIILSKRCRCKFNQQQRT  
 GEPDEEEGTFRSSIRRLSSRRR

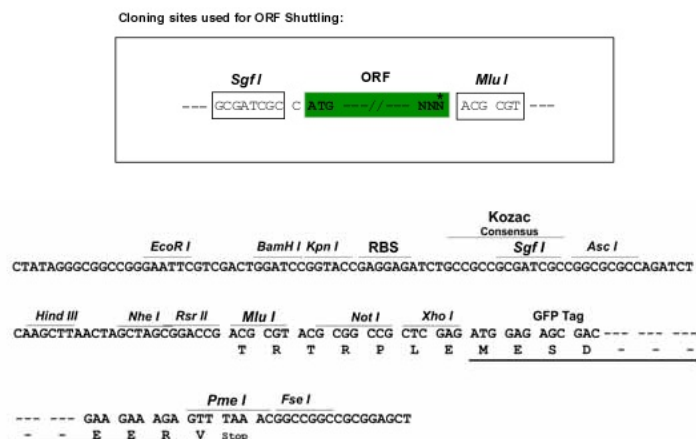
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

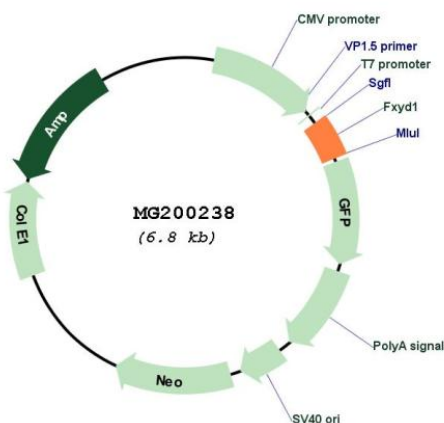


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### Cloning Scheme:



### Plasmid Map:



ACCN: NM 052992

ORF Size: 636 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](#)

<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_052992.3</a>
<b>RefSeq Size:</b>	620 bp
<b>RefSeq ORF:</b>	279 bp
<b>Locus ID:</b>	56188
<b>UniProt ID:</b>	<a href="#">Q9Z239</a>
<b>Cytogenetics:</b>	7 B1
<b>Gene Summary:</b>	This gene encodes a member of the FXYD family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFXYP and containing 7 invariant and 6 highly conserved amino acids. The protein encoded by this gene is a plasma membrane substrate for several kinases, including protein kinase A, protein kinase C, NIMA kinase, and myotonic dystrophy kinase. It is thought to form an ion channel or regulate ion channel activity and act as an accessory protein of Na,K-ATPase. Alternatively spliced transcript variants have been described. [provided by RefSeq, Sep 2009]