

## Product datasheet for **MC225590**

### **Fxyd1 (NM\_194321) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fxyd1 (NM\_194321) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fxyd1  
**Synonyms:** 0610012C17Rik; 1110006M24Rik; P; Plm; Pml  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225590 representing NM\_194321  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGCATCTCCCGCCACATCCTGGCTCTGTGTGTGTCTCCTCTCCATGGCCAGTGCAGAAGCTCCAC**  
**AGGAACCGGATCCATTACCTACGATTACCACACCCTGCGGATCGGCGGCTCACTATCGCTGGGATCCT**  
**CTTCATCTGGGCATCCTTATCATCCTTAGCAAGAGATGTCGATGCAAATCAACCAACAGCAGAGA**  
**ACTGGGAACCCGACGAAGAGGAGGAACTTCCGCAGCTCCATCCGCGTCTGTCTATCCCGCAGGCGG**TAG****

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_194321  
**Insert Size:** 279 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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<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_194321.2, NP_919302.1</u>
<b>RefSeq Size:</b>	631 bp
<b>RefSeq ORF:</b>	279 bp
<b>Locus ID:</b>	56188
<b>UniProt ID:</b>	<u>Q9Z239</u>
<b>Cytogenetics:</b>	7 B1
<b>Gene Summary:</b>	<p>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 PFXDYD 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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Variants 3, 4 and 5 encode the same isoform (b).</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>