

## Product datasheet for **MG200251**

### **Fxyd6 (NM\_022004) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fxyd6 (NM\_022004) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fxyd6  
**Synonyms:** 061003018Rik; P; Php  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200251 representing NM\_022004  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGACGGTGTCTGCTCCTCTGCAGCTTGCTGGCCCCTGTGGTCTGGCGAGTGCTGAGAAGGAGAAAAG  
 AAAAGGATCCTTTCTATTACGACTACCAGACCCTGAGGATTGGGGGTTGGTGTGCTGTGGTCTCTT  
 CTCCGTTGGGATACTTCTCATCCTCAGTCGCAGGTGCAAGTGCAGTTTCAATCAGAAGCCCAGGGCTCCA  
 GGTGACGAAGAGGCCAGGTGGAGAACCTCATCACTACAAACGCTGCGGAGCCCCAGAAGGCAGAGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200251 representing NM\_022004  
 Red=Cloning site Green=Tags(s)  
 METVLLVCSLLAPVVLASAEKEKEKDPFYDYQTLRIGGLVFAVVLFSVGILLILSRRCKCSFNQKPRAP  
 GDEEAQVENLITTNAEPQKAEN

**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_022004.6</a> , <a href="#">NP_071287.1</a>
<b>RefSeq Size:</b>	1804 bp
<b>RefSeq ORF:</b>	285 bp
<b>Locus ID:</b>	59095
<b>UniProt ID:</b>	<a href="#">Q9D164</a>
<b>Cytogenetics:</b>	9 A5.2
<b>Gene Summary:</b>	<p>This reference sequence was derived from multiple replicate ESTs and validated by similar human genomic sequence. This gene encodes a member of a family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYD-domain containing ion transport regulator. Transmembrane topology has been established for two family members (FXYD1 and FXYD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. FXYD2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYD1 (phospholemman), FXYD2 (gamma), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. This gene product, Fxyd6, is novel and has not been characterized as a protein. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Jul 2006]</p>