

## Product datasheet for **RR204780**

### **Fxyd3 (NM\_172317) Rat Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Fxyd3 (NM\_172317) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fxyd3  
**Synonyms:** MAT8  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204780 representing NM\_172317  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGCAAGAGTTTGCTCTGAGCCTGTTGGTCTTCTAGCAGGCCTGCCTACTTTGGATGCCAATGACCCTG**  
**AAGATAAAGATAGCCCTTCTACTATGATTGGCACAGCCTCCGAGTCGGCGGGCTCATCTGTGCAGGGAT**  
**TCTCTGTGCCCTGGCATTATAGTTCTCATGAGTGGCAAGTGCAAATGCAAGTTCAGCCAGAAACCCAGC**  
**CACCGTCCAGGAGATGGGCCACCCCTCATCACACCAGGCTCTGCTCAAACTGC**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR204780 representing NM\_172317  
Red=Cloning site Green=Tags(s)

MQEFALSLLVLLAGLPTLDANDPEDKDSPFYYDWHSLRVGGLICAGILCALGIIVLMSGKCKKFSQKPS  
HRPGDGPPLITPGSAHNC

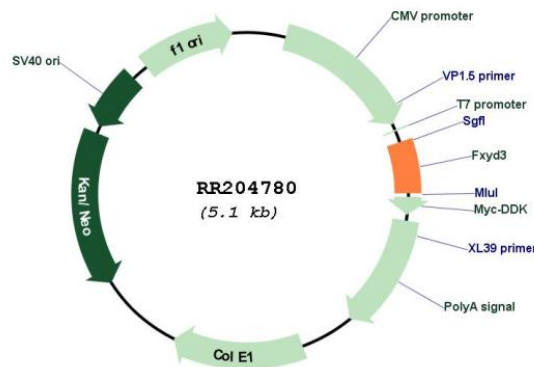
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_172317

ORF Size: 264 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>	<u><a href="#">NM_172317.2</a></u> , <u><a href="#">NP_758528.1</a></u>
<b>RefSeq Size:</b>	470 bp
<b>RefSeq ORF:</b>	267 bp
<b>Locus ID:</b>	116831
<b>UniProt ID:</b>	<u><a href="#">P59645</a></u>
<b>Cytogenetics:</b>	1q21
<b>MW:</b>	9.4 kDa
<b>Gene Summary:</b>	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. Mouse FXYD5 has been termed RIC (Related to Ion Channel). 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. 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. [provided by RefSeq, Jul 2008]