

## Product datasheet for **SC325450**

### **FXYD3 (NM\_001136008) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FXYD3 (NM_001136008) Human Untagged Clone
Tag:	Tag Free
Symbol:	FXYD3
Synonyms:	MAT8; PLML
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001136008, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCAGAAGGTGACCCTGGGCCTGCTTGTGTTCTGCGCAGGCTTTCCTGTCTGGACGCC AATGACCTAGAAGATAAAAAAGTCCTTTCTACTATGACTGGCACAGCCTCCAGGTTGGC GGGCTCATCTGCGCTGGGGTTCTGTGCGCCATGGGCATCATCATCGTCATGAGTGAGTGG AGGAGCTCGGGGAGCAGGCGGGCCGGGCTGGGGCTCCCCTCCCCTGACCACTCAGCTC TCCCCAACAGGTGCAAAATGCAATGCAAGTTTGCCAGAAGTCCGGG           </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001136008
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	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).
Reconstitution Method:	<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>


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**RefSeq:** NM\_001136008.1, NP\_001129480.1

**RefSeq Size:** 778 bp

**RefSeq ORF:** 291 bp

**Locus ID:** 5349

**UniProt ID:** Q14802

**Cytogenetics:** 19q13.12

**Protein Families:** Ion Channels: Other, Transmembrane

**Gene Summary:** 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]  
 Transcript Variant: This variant (4) has multiple differences in the coding region and 3' UTR, compared to variant 3. These differences result in translation initiation from a downstream in-frame ATG and an isoform (4) with a shorter N-terminus and shorter C-terminus when compared to isoform 3.