

## Product datasheet for SC121958

### FXVD1 (NM\_005031) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FXVD1 (NM_005031) Human Untagged Clone
Tag:	Tag Free
Symbol:	FXVD1
Synonyms:	PLM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005031, the custom clone sequence may differ by one or more nucleotides

ATGGCGTCTCTTGGCCACATCTTGGTTTTCTGTGTGGGTCTCCTCACCATGGCCAAGGCAGAAAGTCCAA  
AGGAACACGACCCGTTCACTTACGACTACCAGTCCCTGCAGATCGGAGGCCTCGTCATCGCCGGGATCCT  
TTCATCTGGGCATCCTCATCGTGCTGAGCAGAAGATGCCGGTGCAAGTTCAACCAGCAGCAGAGGACT  
GGGAACCCGATGAAGAGGAGGAACTTCCGCAGCTCCATCCGCCGTGTCCACCCGAGCGGTAG

#### 5' Read Nucleotide Sequence:

>OriGene 5' read for NM\_005031 unedited  
AACACCGAGCCACTTTNNNNNNNTTNNCCCCCGGTCCAGAATTTGTNATACGACTCAT  
ATAGGCGGCCGCGAAATTCGCACGAGGGCTGTTGCCATGGTGGCCTGAGCGAGCAGAATT  
CCTCCAGGGACAATGGCGTCTCTTGGCCACATCTTGGTTTTCTGTGTGGGTCTCCTCACC  
ATGGCCAAGGCAGAAAGTCAAAGGAACACGACCCGTTCACTTACGACTACCAGTCCCTG  
CAGATCGGAGGCCTCGTCATCGCCGGGATCCTTTCATCCTGGGCATCCTCATCGTGCTG  
AGCAGAAGATGCCGGTGAAGTTCAACCAGCAGCAGAGGACTGGGAACCCGATGAAGAG  
GAGGGAACCTTCCGCAGCTCCATCCGCCGTGTCCACCCGAGCGGTAGAAACACCTG  
GAGCGATGGAATCCGGCCAGGACTCCCCTGGCACCTGACATCTCCACGCTCCACCTGCG  
CGCCACCCGCCCTCCGCCGNCCTTCCCCAGCCTGCCCCCGCAGACTCCCCCTGCCG  
CCAAGACTTCAAATAAACGTGCGTTCCTCTCGNNNNAAAAAAAAANAAAAACAAAAA  
AAANAAAAANNNNACCCC  
AAAAAAAAACCAAAAAAAAAACAACCNCAAAAANCAACCNACCCCNANCCCCNN  
NAAAAANCCANAAAAANNNCCAAATCTTTTTTTTTTGTCCGCCGGGTATAATTTTT  
TTTCATAAAACAACCGGGGGGTTTTTTTTTGAACCCCCCACAGGTTTTTTGGTCGCG  
GGAAAAGGGCCCCCGGGGCCCCCACTTTTTTTTAAAAAAAAAAAAAGCCCTTTTTTTT  
CCAAAGAGGGGGCTTTAATAAAATGGGGGGGGGGGTTTTTTAACACC



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<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005031
<b>Insert Size:</b>	900 bp
<b>OTI Disclaimer:</b>	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).
<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_005031.3</a></u> , <u><a href="#">NP_005022.2</a></u>
<b>RefSeq Size:</b>	547 bp
<b>RefSeq ORF:</b>	279 bp
<b>Locus ID:</b>	5348
<b>UniProt ID:</b>	<u><a href="#">O00168</a></u>
<b>Cytogenetics:</b>	19q13.12
<b>Domains:</b>	ATP1G1_PLM_MAT8
<b>Protein Families:</b>	Ion Channels: Other, Transmembrane

**Gene Summary:**

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 PFXYP and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYP-domain containing ion transport regulator. Mouse FXYP5 has been termed RIC (Related to Ion Channel). FXYP2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYP1 (phospholemman), FXYP2 (gamma), FXYP3 (MAT-8), FXYP4 (CHIF), and FXYP5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXYP1 and FXYP2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. 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. Transcript variants with different 5' UTR sequences have been described in the literature. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (a) and variants b, c and d encode the same protein.