

Product datasheet for RC211575

FXYD1 (NM_021902) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FXYD1 (NM_021902) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FXYD1
Synonyms: PLM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC211575 representing NM_021902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCTCTTGGCCACATCTTGGTTTTCTGTGTGGGTCTCCTCACCATGGCCAAGGCAGAAAGTCCAA
 AGGAACACGACCCGTTCACTTACGACTACCAGTCCCTGCAGATCGGAGGCCTCGTCATCGCCGGGATCCT
 CTTTCATCCTGGGCATCCTCATCGTGCTGAGCAGAAGATGCCGGTCAAGTTCAACCAGCAGCAGAGGACT
 GGGGAACCCGATGAAGAGGAGGAACTTCCGCAGCTCCATCCGCCGTGTCCACCCGCAGGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211575 representing NM_021902
 Red=Cloning site Green=Tags(s)
 MASLGHILVFCVGLLTMKAESPKEHDPFTYDQSLQIGGLVIAGILFILGILIVLSRRRCCKFNQQQRT
 GEPDEEEGTFRSSIRRLSTRRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6107_a04.zip

Restriction Sites: Sgfl-MluI

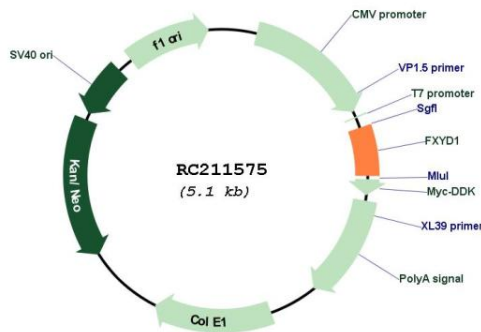


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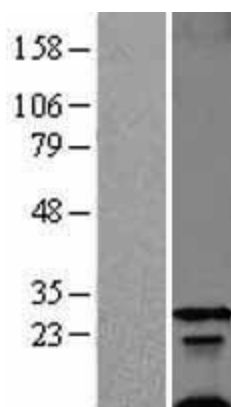
UniProt ID: [O00168](#)
Cytogenetics: 19q13.12
Domains: ATP1G1_PLM_MAT8
Protein Families: Ion Channels: Other, Transmembrane
MW: 8.3 kDa

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 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. 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]

Product images:



Circular map for RC211575



Western blot validation of overexpression lysate (Cat# [LY402884]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211575 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).