

Product datasheet for **RC235561**

FXYD1 (NM_001278718) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FXYD1 (NM_001278718) 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: >RC235561 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

RCATGGCGTCTCTTGGCCACATCTTGGTTTTCTGTGTGGTCTCCTCACCATGGCCAAGGCAGAAAGTCC
AAAGGAACACGACCCGTTCACTTACGACTACCAGTCCCTGCAGATCGGAGGCCTCGTCATCGCCGGGATC
CTCTTCATCCTGGGCATCCTCATCGTGCTGAGCAGAAGATGCCGGTGCAAGTTCAACCAGCAGCAGAGGA
CTGGGGAACCCGATGAAGAGGAGGGAACTTCCGCAGCTCCATCCGCCGTCTGTCCACCCGAGGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235561 protein sequence
Red=Cloning site Green=Tags(s)

XWRLLATSWFSVWVSSPWPRQKVQRNTRSLTTTSPCRSEASSSPGSSSSWASSSC*AEDAGASSTSSRG
LGNPMKRRELSAAPSAVCPPAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: Sgfl-Mlul

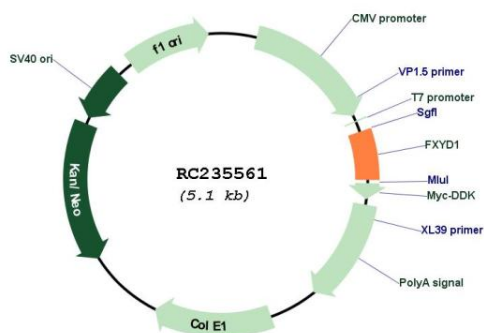


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UniProt ID: [O00168](#)
Cytogenetics: 19q13.12
Protein Families: Ion Channels: Other, Transmembrane
MW: 10.4 kDa

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 (FXD1 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 RC235561