

## **Product datasheet for PH307475**

## OriGene Technologies, Inc.

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## FXYD1 (NM\_005031) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** FXYD1 MS Standard C13 and N15-labeled recombinant protein (NP\_005022)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

or AA Sequence:

RC207475

**Predicted MW:** 10.4 kDa

**Protein Sequence:** >RC207475 protein sequence

Red=Cloning site Green=Tags(s)

MASLGHILVFCVGLLTMAKAESPKEHDPFTYDYQSLQIGGLVIAGILFILGILIVLSRRCRCKFNQQQRT

**GEPDEEEGTFRSSIRRLSTRRR** 

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 005022

 RefSeq Size:
 599

 RefSeq ORF:
 276

 Synonyms:
 PLM

 Locus ID:
 5348

 UniProt ID:
 000168

 Cytogenetics:
 19q13.12



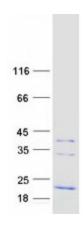


Summary:

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]

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

## **Product images:**



Coomassie blue staining of purified FXYD1 protein (Cat# [TP307475]). The protein was produced from HEK293T cells transfected with FXYD1 cDNA clone (Cat# [RC207475]) using MegaTran 2.0 (Cat# [TT210002]).