

# **Product datasheet for RC225122**

## FXYD2 (NM 001127489) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** FXYD2 (NM\_001127489) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: FXYD2

Synonyms: ATP1G1; HOMG2; MGC12372

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC225122 representing NM\_001127489
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TTGCCAAGGGAGGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC225122 representing NM\_001127489

Red=Cloning site Green=Tags(s)

MTGLSMDGGGSPKGDVDPFYYGKPGPLRTLPEPSGPLPPSSGLSQPQVHALCPLSPLVTTGCCGQAAERD SCWERPPIPLLLPSLSGDYETVRNGGLIFAGLAFIVGLLILLSKWGGLQGRGADQGTSLLKAAEQAGFRE

LPREG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mg3959 a01.zip



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

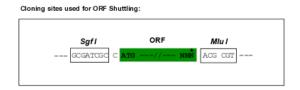
CN: techsupport@origene.cn

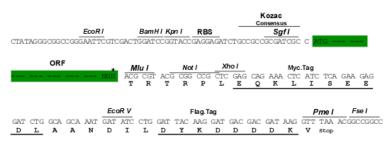
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001127489

ORF Size: 435 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

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.

RefSeq: <u>NM 001127489.1</u>, <u>NP 001120961.1</u>

RefSeq ORF: 437 bp

Locus ID: 486

Cytogenetics: 11q23.3

### FXYD2 (NM\_001127489) Human Tagged ORF Clone - RC225122

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

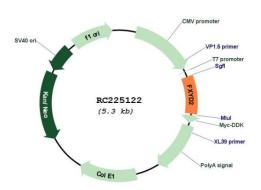
MW: 14.9 kDa

**Gene Summary:** This gene encodes a member of the FXYD family of transmembrane proteins. This particular

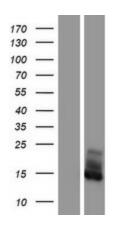
protein encodes the sodium/potassium-transporting ATPase subunit gamma. Mutations in this gene have been associated with Renal Hypomagnesemia-2. Alternatively spliced transcript variants have been described. Read-through transcripts have been observed between this locus and the upstream FXYD domain-containing ion transport regulator 6

(FXYD6, GeneID 53826) locus.[provided by RefSeq, Feb 2011]

### **Product images:**

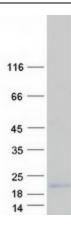


Circular map for RC225122



Western blot validation of overexpression lysate (Cat# [LY426799]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225122 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified FXYD2 protein (Cat# [TP325122]). The protein was produced from HEK293T cells transfected with FXYD2 cDNA clone (Cat# RC225122) using MegaTran 2.0 (Cat# [TT210002]).