

Product datasheet for **RN211689**

Fxyd5 (NM_021909) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fxyd5 (NM_021909) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fxyd5
Synonyms:	RIC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN211689 representing NM_021909 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCACCGCCAGTCAGCTGTGTCTCCTCACCATTGTCGCCCTGATTCTGCCTAGTGAAGGGCAGACAC
CAGAAAAACCCAGATCCAGTTTTACAGCGCACCAGAGTTCTGTGACTACTCATGTCCCAGTTCCAGATCA
AACCAGCCAGGAGTCCAGACCACTCCTCCCATCTGGACCACTGAAGCTGGCGAAGCCACAGGAAGCCAG
ACAGCAGCCAAAACCAAGACCCAGCAACTGACCGAAATGGCCACTGCGAATCCAGTGACAGATCCAGGGC
CACTTACAAGCAGCGAGAAAGGTACCCCGCACTCTCCAGGATCAAATCTCCAGCCACCCAAAGTTA
CATGCCTCCATCCTACATTGAGAATCCACTGGATCCCAATGAGAACAGCCCTTCTACTACGACAATACC
ACCCTCCGGAACGGGGCTGCTGGTGGCGGCAGTGCTGTTCACTGGAATTATCATCTCACTAGTG
GGAAGGTAGACAGTTCTCTCAGTTATGCCTGAATCGCCACAGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_021909
Insert Size:	537 bp
OTI Disclaimer:	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).



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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:	<ol style="list-style-type: none"> 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_021909.2, NP_068709.2</u>
RefSeq Size:	930 bp
RefSeq ORF:	537 bp
Locus ID:	60338
UniProt ID:	<u>P59647</u>
Cytogenetics:	1q21
Gene Summary:	<p>This reference sequence was derived from multiple replicate ESTs and validated by similar mouse cDNA sequence and human genomic sequence. 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. Three transcript variants encoding the same protein have been found for this gene. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Dec 2000]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. All three variants encode the same protein.</p>