

## Product datasheet for **RR211689L4V**

### **Fxyd5 (NM\_021909) Rat Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Fxyd5 (NM_021909) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Fxyd5
Synonyms:	RIC
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_021909
ORF Size:	534 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR211689).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_021909.2</a> , <a href="#">NP_068709.2</a>
RefSeq Size:	930 bp
RefSeq ORF:	537 bp
Locus ID:	60338
UniProt ID:	<a href="#">P59647</a>
Cytogenetics:	1q21



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**Gene Summary:**

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 PFXVD 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. 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]