

## Product datasheet for **RR215122L4V**

### **Fxyd7 (NM\_022008) Rat Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Fxyd7 (NM_022008) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Fxyd7
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_022008
ORF Size:	240 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR215122).
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_022008.1</a> , <a href="#">NP_071291.1</a>
RefSeq Size:	714 bp
RefSeq ORF:	243 bp
Locus ID:	63848
UniProt ID:	<a href="#">P59649</a>
Cytogenetics:	1q21



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**Gene Summary:**

This reference sequence was derived from multiple ESTs and validated by similar mouse cDNA 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. 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. 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. This gene product, FXYD7, is novel and has not been characterized as a protein. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Dec 2000]