

## Product datasheet for RC217411L2

### Dysadherin (FXVD5) (NM\_014164) Human Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dysadherin (FXVD5) (NM_014164) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Dysadherin
Synonyms:	DYSAD; HSPC113; IWU1; KCT1; OIT2; PRO6241; RIC
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217411).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

ACCN:	NM_014164
ORF Size:	534 bp



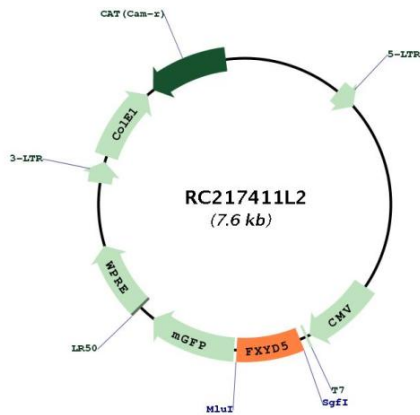
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<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014164.4</a>
<b>RefSeq Size:</b>	914 bp
<b>RefSeq ORF:</b>	537 bp
<b>Locus ID:</b>	53827
<b>UniProt ID:</b>	<a href="#">Q96DB9</a>
<b>Cytogenetics:</b>	19q13.12
<b>Domains:</b>	ATP1G1_PLM_MAT8
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>MW:</b>	19.5 kDa

**Gene 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 FXD-domain containing ion transport regulator. Mouse FXD5 has been termed RIC (Related to Ion Channel). FXD2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXD1 (phospholemman), FXD2 (gamma), FXD3 (MAT-8), FXD4 (CHIF), and FXD5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXD1 and FXD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. This gene product, FXD5, is a glycoprotein that functions in the up-regulation of chemokine production, and it is involved in the reduction of cell adhesion via its ability to down-regulate E-cadherin. It also promotes metastasis, and has been linked to a variety of cancers. Alternative splicing results in multiple transcript variants. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Sep 2009]

**Product images:**



Circular map for RC217411L2