

## Product datasheet for **TG312888**

### Dysadherin (FXVD5) Human shRNA Plasmid Kit (Locus ID 53827)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Dysadherin (FXVD5) Human shRNA Plasmid Kit (Locus ID 53827)
Locus ID:	53827
Synonyms:	DYSAD; HSPC113; IWU1; KCT1; OIT2; PRO6241; RIC
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	FXVD5 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 53827). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">NM_001164605</a> , <a href="#">NM_001320912</a> , <a href="#">NM_001320913</a> , <a href="#">NM_014164</a> , <a href="#">NM_144779</a> , <a href="#">NR_028406</a> , <a href="#">NM_144779.1</a> , <a href="#">NM_144779.2</a> , <a href="#">NM_014164.2</a> , <a href="#">NM_014164.3</a> , <a href="#">NM_014164.4</a> , <a href="#">NM_014164.5</a> , <a href="#">NM_001164605.1</a> , <a href="#">BC009642</a> , <a href="#">BC009642.2</a> , <a href="#">BC013834</a> , <a href="#">BC018798</a> , <a href="#">BM550889</a> , <a href="#">BM839241</a> , <a href="#">NM_144779.3</a> , <a href="#">NM_014164.6</a>
UniProt ID:	<a href="#">Q96DB9</a>



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**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 PFXD 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]

**shRNA Design:**

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact [techsupport@origene.com](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

**Performance Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).