

## Product datasheet for **RG203431**

### **PVRL4 (NECTIN4) (NM\_030916) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PVRL4 (NECTIN4) (NM_030916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PVRL4
Synonyms:	EDSS1; LNIR; nectin-4; PRR4; PVRL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203431 representing NM\_030916  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTGTCCCTGGGAGCCGAGATGTGGGGCCTGAGGCCTGGCTGCTGCTGCTACTGCTGGCAT  
 CATTTACAGGCCGTGCCCGCGGGTGAGCTGGAGACCTCAGACGTGGTAACTGTGGTGCTGGGCCAGGA  
 CGCAAACTGCCCTGCTTCTACCGAGGGGACTCCGGCGAGCAAGTGGGGCAAGTGGCATGGGCTCGGGTG  
 GACGCGGGCGAAGGCGCCAGGAACTAGCGCTACTGCACTCCAAATACGGGCTTCATGTAGAGCCGGCTT  
 ACGAGGGCCGCGTGGAGCAGCCGCCCCACGCAACCCCTGGACGGCTCAGTGCTCTGCGCAACGC  
 AGTGCAGGCGGATGAGGGCGAGTACGAGTGCCGGGTGAGCACCTCCCGCCGGCAGCTCCAGGCGCG  
 CTGCGGCTCCGAGTGTGGTGCCTCCCTGCCCTCACTGAATCCTGGTCCAGCACTAGAAGAGGGCCAGG  
 GCCTGACCCTGGCAGCCTCTGCACAGTGAAGGCGAGCCAGCCCGAGCGTGACCTGGGACACGGAGGT  
 CAAAGGCACAACGTCCAGCCGTTCTTCAAGCACTCCCGCTCTGTGCCGTACCTCAGAGTTCCACTTG  
 GTGCTAGCCGACAGCATGAATGGGAGCCACTGACTTGTGTGGTGTCCATCCTGGCCTGTCCAGGACC  
 AAAGGATCACCCACATCCTCCACGTGTCCTTCTTGTGAGGCCTCTGTGAGGGGCTTGAAGACAAAA  
 TCTGTGGCACATTGGCAGAGAAGGAGCTATGCTCAAGTGCCTGAGTGAAGGGCAGCCCCCTCCCTCATA  
 AACTGGACACGGCTGGATGGGCTCTGCCAGTGGGTACGAGTGGATGGGGACACTTTGGGCTTTCCCC  
 CACTGACCACTGAGCACAGCGGCATCTACGTCTGCCATGTCAGCAATGAGTTCTCCTCAAGGATTCTCA  
 GGTCAGTGTGGATGTTCTTGACCCCGAGGAACTCTGGGAAGCAGGTGGACCTAGTGTGAGCCTCGGTG  
 GTGGTGGTGGGTGATGCGCCGACTCTGTTCTGCCTTCTGGTGGTGGTGGTGGTGTCCATGTCGCGAT  
 ACCATCGGCGCAAGGCCAGCAGATGACCCAGAAATATGAGGAGGAGTACCCTGACCAGGGAGAACTC  
 CATCCGGAGGCTGCATCCCATCACACGACCCAGGAGCCAGCCGGAGGAGAGTGTAGGGCTGAGAGCC  
 GAGGGCCACCCTGATAGTCTCAAGGACAACAGTGTCTGTGATGAGTGAAGAGCCGAGGGCCGCA  
 GTTACTCCACGCTGACCACGGTGAAGGAGATAGAAACACAGACTGAACTGCTGTCTCCAGGCTCTGGGCG  
 GGCCGAGGAGGAGGAAGATCAGGATGAAGGCATCAAACAGGCCATGAACCATTTTGTTCAGGAGAATGG  
 ACCCTACGGGCCAAGCCACGGCAATGGCATCTACATCAATGGGCGGGGACACCTGGTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203431 representing NM\_030916  
 Red=Cloning site Green=Tags(s)

MPLSLGAEMWGPEAWLLLLLLLLASFTGRCPAGELETSDVVTVVVLGQDAKLPCFYRGDSGEVQVQVAVARV  
 DAGEGAQELALLHSKYGLHVSPAYEGRVEQPPPPRNPLDGSVLLRNAVQADEGEYECRVSTFPAGSFQAR  
 LRLRVLVPPLPSLNPGLAEEGQLTLAASCTAEGSPAPSVTWDTEVKGTTSSRSFKHSRSAAVTSEFHL  
 VPSRSMNGQPLTCVVSHPGLLQDQRITHILHVSFLAEASVRGLEQNLWHIGREGAMLKCLSEGQPPPSY  
 NWTRLDGPLPSGVRVDGDTLGFPLTTEHSGIYVCHVSNEFSSRDSQVTVDVLDPQEDSGKQVDLVSASV  
 VVVGVIALLFCLLVVVVLMSTRYHRRKAQMTQKYEEELTLTRENSIRRLHSHHTDPRSQPEESVGLRA  
 EGHPSLKDNSSCSVMSEEPGRSYSTLTTVREIETQTELLSPGSGRAEEEEEDQDEGIKQAMNHVQENG  
 TLRKPTGNGIYINGRHLV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_030916

**ORF Size:** 1530 bp

**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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [NM\\_030916.3](#)

**RefSeq Size:** 2744 bp

**RefSeq ORF:** 1533 bp

**Locus ID:** 81607

**UniProt ID:** [Q96NY8](#)

**Cytogenetics:** 1q23.3

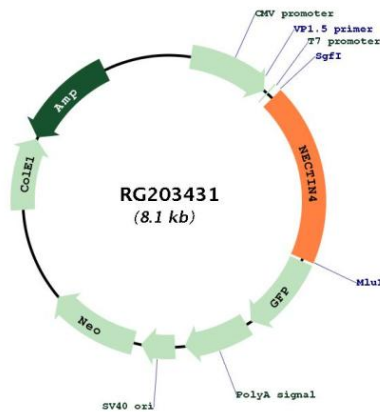
**Domains:** ig, IGc2, IG

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Adherens junction

**Gene Summary:** This gene encodes a member of the nectin family. The encoded protein contains two immunoglobulin-like (Ig-like) C2-type domains and one Ig-like V-type domain. It is involved in cell adhesion through trans-homophilic and -heterophilic interactions. It is a single-pass type I membrane protein. The soluble form is produced by proteolytic cleavage at the cell surface by the metalloproteinase ADAM17/TACE. The secreted form is found in both breast tumor cell lines and breast tumor patients. Mutations in this gene are the cause of ectodermal dysplasia-syndactyly syndrome type 1, an autosomal recessive disorder. Alternatively spliced transcript variants have been found but the full-length nature of the variant has not been determined. [provided by RefSeq, Jan 2011]

**Product images:**



Circular map for RG203431