

## Product datasheet for **RC222305**

### **PVRL1 (NECTIN1) (NM\_203285) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PVRL1 (NECTIN1) (NM_203285) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PVRL1
Synonyms:	CD111; CLPED1; ED4; HlgR; HV1S; HVEC; nectin-1; OFC7; PRR; PRR1; PVRL1; PVRR; PVRR1; SK-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222305 representing NM\_203285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCGGATGGGGCTTGGGGCGCCGCTGGACGCTGGTGGGACTCGCTCTCGGCTTGACCCGATTCT  
 TCCTCCCAGGCGTCCACTCCCAGGTGGTCCAGGTGAACGACTCCATGTATGGCTTCATCGGCACAGACGT  
 GGTTCGCACTGCAGCTTTGCCAACCCGCTTCCAGCGTGAAGATCACCCAGGTACATGGCAGAAGTCC  
 ACCAATGGCTCCAAGCAGAACGTGGCCATCTACAACCCATCCATGGGCGTGTCCGTGCTGGCTCCCTACC  
 GCGAGCGTGTGAATTCCCTGCGGCCCTCCTCACCGATGGCACTATCCGCCTCTCCCGCTGGAGCTGGA  
 GGATGAGGGTGTACATCTGCGAGTTTGTACCTTCCCTACGGGCAATCGAGAAAGCCAGCTCAATCTC  
 ACGGTGATGGCCAAACCCACCAATTGGATAGAGGGTACCCAGGCAGTGTTCGAGCCAAGAAGGGGCAGG  
 ATGACAAGGTCTGGTGGCCACCTGCACCTCAGCCAATGGGAAGCCTCCCAGTGTGGTATCTGGGAAAC  
 TCGGTTAAAAGGTGAGGCAGAGTACCAGGAGATCCGGAACCCCAATGGCACAGTGACGGTATCAGCCGC  
 TACCGCTGGTGGCCAGCAGGAAAGCCACCAGCAGTCCCTGGCCTGCATCGTCAACTACCACATGGACC  
 GCTTCAAGGAAAGCCTCACTCTCAACGTGCAGTATGAGCCTGAGGTAACCATTGAGGGGTTTGATGGCAA  
 CTGGTACTGCAGCGGATGGACGTGAAGCTCACCTGCAAAGCTGATGCTAACCCCCAGCCACTGAGTAC  
 CACTGGACCACGCTAAATGGCTCTCTCCCAAGGGTGTGGAGGCCAGAACAGAACCCCTCTTCTTCAAGG  
 GACCCATCAACTACAGCTGGCAGGGACCTACATCTGTGAGGCCACCAACCCCATCGGTACACGCTCAGG  
 CCAGGTGGAGGTCAATATCACAGAAAAGCCCGCCCGCCAGAGGGTCTGGGAAGTGCAGCCAGGCTCCTG  
 GCGGGCACCGTGGCCGTGTTCTCATCTAGTTGCTGTGCTCACTGTCTTCTTCTGTACAACCGGCAGC  
 AGAAGAGCCACCGGAGACGGATGGGGCCGGGACCGACCAGCCCTCTCCAGAAGCCGGAGCCTTCTCC  
 CAGCAGGCAAAGCTCCCTTGTGCCTGAGGATATCCAGGTTGTCCACCTGGACCCAGGGAGGCAGCAGCAG  
 CAAGAAGAGGAGGACTTGCAAGAAGCTGTCCCTGCAGCCCCCTACTATGATCTGGGGTCTCCCCCTCT  
 ACCACCCCTCGGTAAGGACAACCGAACCTCGAGGAGAGTGCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222305 representing NM\_203285  
 Red=Cloning site Green=Tags(s)

MARMGLAGAAGRWWGLALGLTAFFLPGVHSQVVQVNDMSYGFIGTDVVLHCSFANPLPSVKITQVTWQKS  
 TNGSKQNVAIYNPSMGVSVLAPYRERVEFLRPSFTDGTIRLSRLELEDEGVYICEFATFPTGNRESQLNL  
 TVMAKPTNWIETQAVLRAKKGQDDKVLVATCTSANGKPPSVVSWETRLKGEAEYQEIRNPNGTVTVISR  
 YRLVPSREAHQQSLACIVNYHMDRFKESLTLNVQYEPEVTIEGFDGNWYLQRMVLTCKADANPPATEY  
 HWTTLNGSLPKGVEAQNRTLFFKGPINYSLAGTYICEATNPIGTRSGQVEVNITEKPRPQRGLGSAARLL  
 AGTVAVFLILVAVLTVFFLYNRQKSPPETDGAGTDQPLSQKPEPSPSRQSSLPEDIQVVHLDPGRQQQ  
 QEEEDLQKLSLQPPYYDLGVSPSYHPSVRTTEPRGECF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8061\\_d01.zip](https://cdn.origene.com/chromatograms/mk8061_d01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_203285

**ORF Size:** 1374 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\\_203285.2](#)
**RefSeq Size:** 1549 bp

**RefSeq ORF:** 1377 bp

**Locus ID:** 5818

**UniProt ID:** [Q15223](#)
**Cytogenetics:** 11q23.3

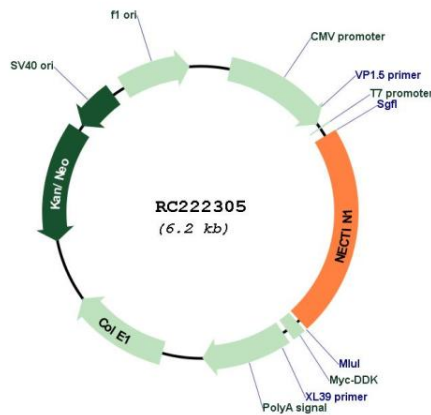
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Adherens junction, Cell adhesion molecules (CAMs)

**MW:** 47.6 kDa

**Gene Summary:** This gene encodes an adhesion protein that plays a role in the organization of adherens junctions and tight junctions in epithelial and endothelial cells. The protein is a calcium(2+)-independent cell-cell adhesion molecule that belongs to the immunoglobulin superfamily and has 3 extracellular immunoglobulin-like loops, a single transmembrane domain (in some isoforms), and a cytoplasmic region. This protein acts as a receptor for glycoprotein D (gD) of herpes simplex viruses 1 and 2 (HSV-1, HSV-2), and pseudorabies virus (PRV) and mediates viral entry into epithelial and neuronal cells. Mutations in this gene cause cleft lip and palate/ectodermal dysplasia 1 syndrome (CLPED1) as well as non-syndromic cleft lip with or without cleft palate (CL/P). Alternative splicing results in multiple transcript variants encoding proteins with distinct C-termini. [provided by RefSeq, Oct 2009]

**Product images:**



Circular map for RC222305