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Product datasheet for RG222305

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:	TurboGFP
Symbol:	NECTIN1
Synonyms:	CD111; CLPED1; ED4; HIgR; HV1S; HVEC; nectin-1; OFC7; PRR; PRR1; PVRL1; PVRR; PVRR1; SK-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG222305 representing NM_203285
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCGGATGGGGCTTGCGGGCGCCGCTGGACGCTGGTGGGGACTCGCTCTCGGCTTGACCGCATTCT
TCCTCCCAGGCGTCCACTCCCAGGTGGTCCAGGTGAACGACTCCATGTATGGCTTCATCGGCACAGACGT
GGTTCTGCACTGCAGCTTTGCCAACCCGCTTCCCAGCGTGAAGATCACCCAGGTCACATGGCAGAAGTCC
ACCAATGGCTCCAAGCAGAACGTGGCCATCTACAACCCATCCATGGGCGTGTCCGTGCTGGCTCCCTACC
GCGAGCGTGTGGAATTCCTGCGGCCCTCCTTCACCGATGGCACTATCCGCCTCTCCCGCCTGGAGCTGGA
GGATGAGGGTGTCTACATCTGCGAGTTTGCTACCTTCCCTACGGGCAATCGAGAAAGCCAGCTCAATCTC
ACGGTGATGGCCAAACCCACCAATTGGATAGAGGGTACCCAGGCAGTGCTTCGAGCCAAGAAGGGGCAGG
ATGACAAGGTCCTGGTGGCCACCTGCACCTCAGCCAATGGGAAGCCTCCCAGTGTGGTATCCTGGGAAAC
TCGGTTAAAAGGTGAGGCAGAGTACCAGGAGATCCGGAACCCCAATGGCACAGTGACGGTCATCAGCCGC
TACCGCCTGGTGCCCAGCAGGGAAGCCCACCAGCAGTCCTTGGCCTGCATCGTCAACTACCACATGGACC
GCTTCAAGGAAAGCCTCACTCTCAACGTGCAGTATGAGCCTGAGGTAACCATTGAGGGGTTTGATGGCAA
CTGGTACCTGCAGCGGATGGACGTGAAGCTCACCTGCAAAGCTGATGCTAACCCCCCAGCCACTGAGTAC
CACTGGACCACGCTAAATGGCTCTCTCCCCAAGGGTGTGGAGGCCCAGAACAGAACCCTCTTCTTCAAGG
GACCCATCAACTACAGCCTGGCAGGGACCTACATCTGTGAGGCCACCAACCCCATCGGTACACGCTCAGG
CCAGGTGGAGGTCAATATCACAGAAAAGCCCCGCCCCCAGAGGGGTCTGGGAAGTGCAGCCAGGCTCCTG
GCGGGCACCGTGGCCGTGTTCCTCATCCTAGTTGCTGTGCTCACTGTCTTCTTCCTGTACAACCGGCAGC
AGAAGAGCCCACCGGAGACGGATGGGGCCGGGACCGACCAGCCCCTCTCCCAGAAGCCGGAGCCTTCTCC
CAGCAGGCAAAGCTCCCTTGTGCCTGAGGATATCCAGGTTGTCCACCTGGACCCAGGGAGGCAGCAGCAG
CAAGAAGAGGAGGACTTGCAGAAGCTGTCCCTGCAGCCCCCCTACTATGATCTGGGGGTCTCCCCCTCCT
ACCACCCCTCGGTAAGGACAACCGAACCTCGAGGAGAGTGCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

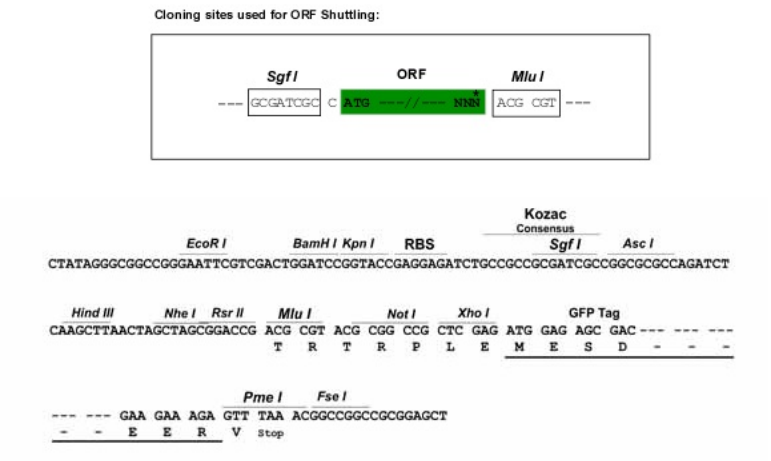
>RG222305 representing NM_203285
Red=Cloning site Green=Tags(s)

MARMGLAGAAGRWWGLALGLTAFFLPGVHSQVVQVNDSMYGFIGTDVVLHCSFANPLPSVKITQVTWQKS
TNGSKQNVAIYNPSMGVSVLAPYRERVEFLRPSFTDGTIRLSRLELEDEGVYICEFATFPTGNRESQLNL
TVMAKPTNWIEGTQAVLRAKKGQDDKVLVATCTSANGKPPSVVSWETRLKGEAEYQEIRNPNGTVTVISR
YRLVPSREAHQQSLACIVNYHMDRFKESLTLNVQYEPEVTIEGFDGNWYLQRMDVKLTCKADANPPATEY
HWTTLNGSLPKGVEAQNRTLFFKGPINYSLAGTYICEATNPIGTRSGQVEVNITEKPRPQRGLGSAARLL
AGTVAVFLILVAVLTVFFLYNRQQKSPPETDGAGTDQPLSQKPEPSPSRQSSLVPEDIQVVHLDPGRQQQ
QEEEDLQKLSLQPPYYDLGVSPSYHPSVRTTEPRGECP

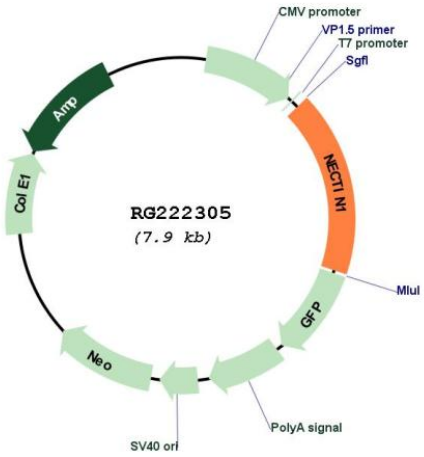
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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)
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]