

## Product datasheet for **MR223253**

### Nectin3 (NM\_021497) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nectin3 (NM_021497) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nectin3
Synonyms:	2610301B19Rik; 3000002N23Rik; 4921513D19Rik; AA407785; AU016832; AW538082; CD113; Pvr13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR223253 representing NM\_021497  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGCGGACCCGGGCCCGGCCCGTTGTGTCTGGAGCGGCAAAGCACAACTTTCCTCGGCGTTTC  
 CTCCCAGCGCCGACTGCTGCTGCCGGCCCGACGCCCGCCGCTGCTGCTGCTTATTCCCTGCT  
 TCTCTTCTCCCGCTCTGTGGTGCCTTAGCTGGATCAATTATTGTGGAGCCACATGTCACAGCAGTGTGG  
 GAAAAGAATGTTTCATTGAAGTGTTAATTGAAGTGAATGAACTATAACCCAGATCTCATGGGAGAAGA  
 TACATGGCAAAGTACACAGACTGTTGCAGTTCATCATCCTCAGTATGGATTCTCTGTTCAAGGAGATTA  
 TCAGGGAAGAGTCTTGTAAAACTATCACTTAATGATGCAACAATTACTCTGCATAACATAGGCTTC  
 TCAGATTCTGGAAAATATATATGCAAAGCCGTACATTCCCACTTGAAAATGCTCAGTCTCTACAACAG  
 TGAAGTGTAGTTGAACCCACAGTGAAGCTGATAAAAAGGCGCGATTCTTTAATTGATGGAGGGAATGA  
 GACAGTAGCAGCCGTTTGTGTAGCAGCCACTGAAAAGCCAGTCGCACAGATTGACTGGGAAGGTGATCTT  
 GGTGAAAATGGAATCTAGTACAACCTCTTTTCTAATGAAACAGCAACGATTGTCAGCCAATACAAGCTGT  
 TTCCCACAAGATTTGCTCGAGGAAGGCGAATTACTTGTGTGTA AACATCCAGCCTTAGAAAAGGACAT  
 TCGCTACTCTTTCATACTAGACATACAGTATGCTCCTGAAGTTTCAGTAACAGGATATGATGAAAATGG  
 TTCGTGGGAAGAAAAGGTGTTAACCTCAAGTGAATGCTGATGCAAACCTCCACCCTTCAAGTCCGCTGT  
 GGAGCAGGTTGGATGGACAATGGCCTGATGGTTTATTGGCGTCAGATAATACTCTTCATTTTGTCCATCC  
 ATTGACTGTCAATTATTCGGCGTTTATGTCTGTAAGATCAAATCCCTTGGTCAAAGAAGTGAATCAA  
 AAGGTTATCTACATTTACAGACATCCCGCTTACGCAGACCTCATCCATAGCAGTGGCTGGAGCCGTGATTG  
 GAGCTGTCTGGCCCTTTCATCATCACCGTCTTTGTGACTGTGTTGCTGACGCCCTCGAAAAAGAGACC  
 GTCCATCTTGACAAAGTAATCGACCTTCCACCTACACATAAGCCACCCCTGTATATGAAGAACGAATT  
 CCTTCTCTCCCTCAGAAAGACCTTCTTGGCCAGGTACGTGCTCTCGAAGACACT

ACGCGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223253 representing NM\_021497  
 Red=Cloning site Green=Tags(s)

MARTPGPAPLCPGGGKAQLSSAFPPAAGLLLPAPTPPPLLLLLIPLLLF SRLCGALAGSIIVEPHVTAVW  
 GKNVSLKCLIEVNETITQISWEKIHGKSTQTVAVHHPQYGF SVQGDYQGRVLFKNYSLNDATITLHNIGF  
 SDGKYICKAVTFPLGNAQSSTTVLVEPTVSLIKGPDSLIDGNETVAAVCVAATGKPAQIDWEGDL  
 GEMESSTSFNETATIVSQYKLPTRFARGRRITCVVKHPALEKDIRYSFILD IQYAPEVSVTGYDGNW  
 FVGRKGVNLKCNADANPPPFKSVWSRLDGQWPDGLLASDNTLHFVHPLTVNYSVYVCKVSNLQGRSDQ  
 KVIYISDIPLTQTSSIAVAGAVIGAVLALFIIITVFVTVLLTPRKKRPSYLDKVIDLPPTHKPPPVYEERI  
 PSLPQKDLLGQVRALEDT

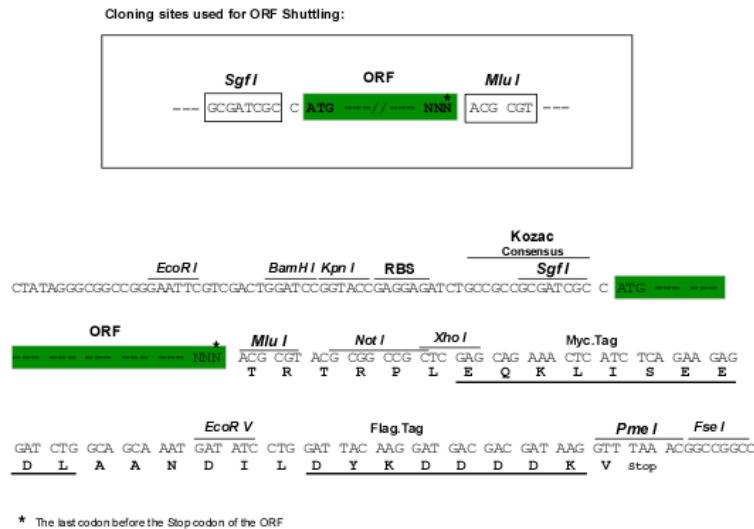
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9033\\_f12.zip](https://cdn.origene.com/chromatograms/mm9033_f12.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_021497

**ORF Size:** 1314 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_021497.2](#), [NP\\_067472.1](#)

RefSeq Size: 1861 bp  
 RefSeq ORF: 1317 bp  
 Locus ID: 58998  
 UniProt ID: [Q9JLB9](#)  
 Cytogenetics: 16 B5  
 MW: 47.7 kDa

**Gene Summary:** Plays a role in cell-cell adhesion through heterophilic trans-interactions with nectins-like or other nectins, such as trans-interaction with NECTIN2 at Sertoli-spermatid junctions. Trans-interaction with PVR induces activation of CDC42 and RAC small G proteins through common signaling molecules such as SRC and RAP1. Also involved in the formation of cell-cell junctions, including adherens junctions and synapses. Induces endocytosis-mediated down-regulation of PVR from the cell surface, resulting in reduction of cell movement and proliferation. Plays a role in the morphology of the ciliary body.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR223253