

## Product datasheet for **MG223253**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nectin3 (NM_021497) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nectin3
Synonyms:	2610301B19Rik; 3000002N23Rik; 4921513D19Rik; AA407785; AU016832; AW538082; CD113; Pvr13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG223253 representing NM\_021497  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCGCGGACCCGGGCGGCCCGTTGTGCTCGGAGCGGCAAAGCACAACTTTCCTCGGCGTTTC  
 CTCCCGCGGCCGACTGCTGCTGCGGCCCGACGCCCGCGCTGCTGCTGCTTATTCCCTGCT  
 TCTCTTCTCCCGCTCTGTGGTGCCTTAGCTGGATCAATTATTGTGGAGCCACATGTCACAGCAGTGTGG  
 GAAAAGAAATGTTTCATTGAAGTGTAAATTGAAGTGAATGAACTATAACCCAGATCTCATGGGAGAAGA  
 TACATGGCAAAGTACACAGACTGTTGCAGTTCATCATCCTCAGTATGGATTCTCTGTTCAAGGAGATTA  
 TCAGGGAAGAGTCTTGTAAAACTATCACTTAATGATGCAACAATTACTCTGCATAACATAGGCTTC  
 TCAGATTCTGGAAAATATATATGCAAAGCCGTTACATCCCACTTGAAAATGCTCAGTCTCTACAACAG  
 TGACTGTGTTAGTTGAACCCACAGTGAAGCTGATAAAAAGGCGCGATTCTTTAATTGATGGAGGGAATGA  
 GACAGTAGCAGCCGTTTGTGTAGCAGCCACTGAAAAGCCAGTCGCACAGATTGACTGGGAAGGTGATCTT  
 GGTGAAAATGGAATCTAGTACAACCTCTTTTCTAATGAAACAGCAACGATTGTCAGCCAATACAAGCTGT  
 TTCCACAAAGATTTGCTCGAGGAAGGCGAATTACTTGTGTTGAAAACATCCAGCCTTAGAAAAGGACAT  
 TCGCTACTCTTTCATACTAGACATACAGTATGCTCCTGAAGTTTCAGTAACAGGATATGATGAAAATGG  
 TTCGTGGGAAGAAAAGGTGTTAACCTCAAGTGAATGCTGATGCAAACCTCCACCCTTCAAGTCCGCTGT  
 GGAGCAGGTTGGATGGACAATGGCCTGATGGTTTATTGGCGTCAGATAATACTCTTCATTTTGTCCATCC  
 ATTGACTGTCAATTATTTGGCGTTTATGTCTGTAAGATCAAATCCCTTGGTCAAAGAAGTATCAA  
 AAGGTTATCTACATTTACAGACATCCCGCTTACGCAGACCTCATCCATAGCAGTGGCTGGAGCCGTGATTG  
 GAGCTGTCTGGCCCTTTCATCATCACCGTCTTTGTGACTGTGTTGCTGACGCCGGAAGGAGACCC  
 GTCCATCTTGACAAAAGTAATCGACCTTCCACCTACACATAAGCCACCCCTGTATATGAAGAACGAATT  
 CTTTCTCTCCCTCAGAAAGACCTTCTTGGCCAGGTACGTGCTCTCGAAGACACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG223253 representing NM\_021497  
 Red=Cloning site Green=Tags(s)

MARTPGPAPLCPGGGKAQLSSAFPPAAGLLLPAPTPPPLLLLLIPLLLFSRLCGALAGSIIVEPHVTAVW  
 GKNVSLKCLIEVNETITQISWEKIHGKSTQTVAVHHPQYGFVSVQGDYQGRVLFKNYSLNDATITLHNIGF  
 SDSGKYICKAVTFPLGNAQSSTTVTVLVEPTVSLIKGPDSLIDGGNETVAAVCVAATGKPVAAQIDWEGDL  
 GEMESSTTSFPNETATIVSQQYKLFPTFRARGRRITCVVKHPALEKDIRYSFILDIQYAEVSVTGYDGNW  
 FVGRKGVNLCNADANPPPFKSVWSRLDGQWPDGLLASDNTHFVHPLTVNYSVYVCKVSNLSLQGRSDQ  
 KVIYISDIPLTQTSSIAVAGAVIGAVLALFIIIVFVTVLLTPRKKRPSYLDKVIDLPPTHKPPPVYEERI  
 PSLPQKDLLGQVRALEDT

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

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).

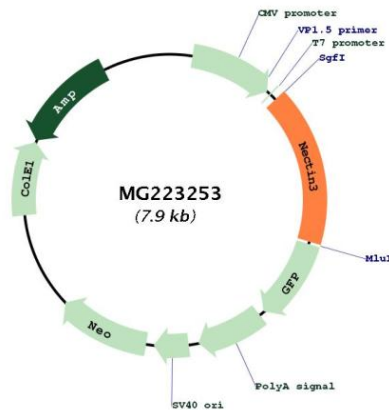
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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

**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 MG223253