

## Product datasheet for **MG208504**

### Nectin2 (NM\_008990) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nectin2 (NM_008990) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nectin2
Synonyms:	AI325026; AI987993; Cd112; MPH; nectin-2; Pvr; Pvrl2; Pvs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208504 representing NM\_008990  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCGGGCCGAGTCTCCCGCGTCCAGATTGTACCGACGCTGCCGTTGTTGCCGCTGCTACTGC  
 TCCTGTTTCAGGAAACAGGAGCCCAAGATGTGCGGGTACGAGTGCTTCCCGAGGTCGGGGCCGCTTGGG  
 AGGCACCGTGGAGTTACCGTGCCACCTGCTCCACCCACGACGGAGCGCTCTCTCAGGTGACCTGGCAG  
 CGCCTGGATGGCACAGTTGTGGCTGCTTTCCACCCATCCTTCGGAGTGGATTTCCCAACTCTCAGTTCA  
 GCAAGGACCGTCTGCTTTGTGACAGCGAGACCAGAAACAAACGACAGCTGCGGGATGCCACACTGGC  
 CTTCCGGGACTGAGGGTAGAGGACGAGGGCAATTACACCTGCGAGTTTCCACGTTTCCCAACGGTACC  
 CGCAGGGGGTGACCTGGCTCAGAGTCATAGCCAGCCTGAGAACCACGCTGAAGCCAGGAGGTCACAA  
 TTGGCCCCAGTCGGTGGCTGTAGCCCGCTGTCTCCACTGGGGCCGCCCCCTGCCCGAATCACCTG  
 GATCTCATCTCTGGGTGGAGAGGCCAAAGATACTCAGGAGCCAGGGATACAGGCTGGCACCGTCACTATC  
 ATCAGCCGATACTCCTTGGTGCCCGTGGGCCGAGCGGATGGCGTCAAGGTACAGTGTAGAGTGGAACAG  
 AGAGCTTCGAAGAGCCGATCCTGCTGCCAGTGACCCTCTCTGTGCGCTACCCCTCCAGAAGTATCCATCTC  
 CGGCTATGATGACAACCTGGTACCTTGGCCCGAGTGAAGCCATACTGACCTGTGATGTACGAAGCAACCCA  
 GAGCCACAGACTATGACTGGAGCACGACCTCGGGCGTCTTCCAGCCTCTGCAGTGGCCAGGGCTCTC  
 AGCTGCTTGTCCACTCTGTGGATCGAATGGTCAACACTACCTTCACTGTACAGCCCAACGCTGTGGG  
 GACAGGCCGTGCTGAGCAGGTCATCCTGGTGGAGAGTCAACAGCACAGCAGGAGCAGGGGCCACTGGT  
 GGCATCATTGGAGGATTATCGCTGCCATCATCGCCACCGCAGTGGCTGGCACAGGCATCCTCATCTGCC  
 GACAACAGCGGAAGGAGCAGAGGCTTCAAGCTGCGGATGAGGAAGAAGAACTGGAAGGACCTCCCTCCTA  
 TAAACCCACCCCGAAGGCCAAGCTGGAGGAACAGAGATGCCCTCTCAACTCTCACCTTGGGGGCC  
 TCAGAGCACAGCCAGTGAAGACGCCATACTTTGATGCTGGTGTCTTTGTGCTGATCAGGAGATGCCTC  
 GGTATCACGAGCTGCCACTCTGGAAGAGTGGTCAGGGCCCTGCTGTTGGGGGCTACAGGCCTGGGACC  
 TTCTCTTCTGGTGCCTCCAGGACCCAATGTTGTGGAGGGGTTTCCCTGAGTCTCGAAGATGAGGAGGAA  
 GATGATGAGGAGGAAGACTTCTGGATAAAATCAACCCTATTTATGATGCCCTGTCTACCCAGCCCT  
 CTGACTCTACCAGAGCAAAGACTTTTTTGTGTCAGGGCCATGTATGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208504 representing NM\_008990  
 Red=Cloning site Green=Tags(s)

MARAAVLPPSRLSPTLPLLLPLLLLLLQETGAQDVRVRVLPVVRGRLGGTVELPCHLLPPTTERVSVQVTWQ  
 RLDGTVVAAFHPSFGVDFPNSQFSKDRLSFVRARPETNADLRDATLAFRGLRVEDEGNYTCEFATFPNGT  
 RRGVTWLRVIAQPENHAEAEQVETIGPQSVAVARCVSTGGRPPARITWISSLGGEAKDTQEPGIQAGVTI  
 ISRYSLVPVGRADGVKVTCTVEHESFEPIILLPVTLVRYPPPEVSI SGYDDNWYLRSEAILTCDVRSNP  
 EPTDYDWTSTSGVFPASAVAQGSQLLVHSVDRMVNTTFICTATNAVGTGRAEQVILVRESPSTAGAGATG  
 GIIGGIIAAIIATAVAGTGILICRQQRKEQRLQAADDEEELEGPSPYKPPTPKAKLEEPMPSQLFTLGA  
 SEHSPVKTPYFDAGVSCADQEMPRYHELPTLEEWGPLLLGATGLGPSLLVPPGPNVVEGVSLSEDEEE  
 DDEEDFLDKINPIYDALSYSPSPSDSYQSKDFFVSRAMYV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_008990

ORF Size: 1590 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\\_008990.2](#), [NP\\_033016.2](#)

RefSeq Size: 2633 bp

RefSeq ORF: 1593 bp

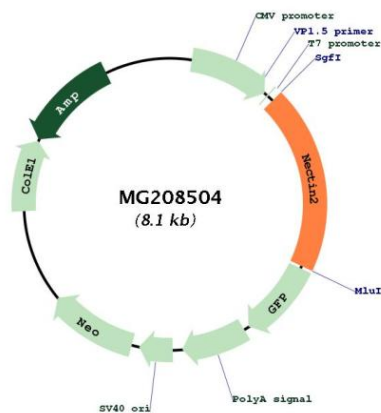
Locus ID: 19294

UniProt ID: [P32507](#)

Cytogenetics: 7 9.94 cM

**Gene Summary:** Modulator of T-cell signaling. Can be either a costimulator of T-cell function, or a coinhibitor, depending on the receptor it binds to. Upon binding to CD226, stimulates T-cell proliferation and cytokine production, including that of IL2, IL5, IL10, IL13, and IFNG. Upon interaction with PVRIG, inhibits T-cell proliferation. These interactions are competitive. Probable cell adhesion protein.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG208504