

Product datasheet for **MR208504**

Nectin2 (NM_008990) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nectin2 (NM_008990) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nectin2
Synonyms:	AI325026; AI987993; Cd112; MPH; nectin-2; Pvr; Pvrl2; Pvs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208504 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCGGGCCGAGTCTCCCGCTCCAGATTGTACCGACGCTGCCGTTGTTGCCGCTGCTACTGC
 TCCTGTTTCAGGAAACAGGAGCCCAAGATGTGCGGGTACGAGTGCTTCCGAGGTCGGGGCCGCTTGGG
 AGGCACCGTGGAGTTACCGTGCCACCTGCTCCACCCACGACGGAGCGCTCTCTCAGGTGACCTGGCAG
 CGCCTGGATGGCAGATTGTGGCTGCTTCCACCCATCCTTCGGAGTGGATTTCCCAACTCTCAGTTCA
 GCAAGGACCGTCTGCTTTGTGACAGCGAGACCAGAAACAAACGACAGCTGCGGGATGCCACACTGGC
 CTTCCGGGACTGAGGGTAGAGGACGAGGGCAATTACACCTGCGAGTTTGCACGTTTCCCAACGGTACC
 CGCAGGGGGTGACCTGGCTCAGAGTCATAGCCAGCCTGAGAACCACGCTGAAGCCAGGAGGTACAA
 TTGGCCCCAGTCGGTGGCTGTAGCCCGCTGTCTCCACTGGGGCCGCCCCCTGCCGAATCACCTG
 GATCTCATCTCTGGGTGGAGAGGCCAAAGATACTCAGGAGCCAGGGATACAGGCTGGCACCGTCACTATC
 ATCAGCCGATACTCCTTGGTGCCCGTGGGCCGAGCGGATGGCGTCAAGGTCACGTGTAGAGTGGAACACG
 AGAGCTTCGAAGAGCCGATCCTGCTGCCAGTGACCCTCTCTGTGCGCTACCCCTCCAGAAGTATCCATCTC
 CGGCTATGATGACAACTGGTACCTTGGCCGAGTGAAGCCATACTGACCTGTGATGTACGAAGCAACCCA
 GAGCCACAGACTATGACTGGAGCACGACCTCGGGCGTCTTCCAGCCTCTGCAGTGGCCAGGGCTCTC
 AGCTGCTTGTCCACTCTGTGGATCGAATGGTCAACACTACCTTCTGTACAGCCACCAACGCTGTGGG
 GACAGGCCGTGCTGAGCAGGTCATCCTGGTGGAGAGTCAACAGCACAGCAGGAGCAGGGGCCACTGGT
 GGCATATTGGAGGATTATCGCTGCCATCATCGCCACCGCAGTGGCTGGCACAGGCATCCTCATCTGCC
 GACAACAGCGGAAGGAGCAGAGGCTTCAAGCTGCGGATGAGGAAGAAGAACTGGAAGGACCTCCCTCCTA
 TAAACCACCCACCCGAAGGCCAAGCTGGAGGAACAGAGATGCCCTCTCAACTCTCACCTTGGGGGCC
 TCAGAGCACAGCCAGTGAAGACGCCATACTTTGATGCTGGTGTCTTTGTGCTGATCAGGAGATGCCTC
 GGTATCACGAGCTGCCACTCTGGAAGAGTGGTCAAGGGCCCTGCTGTTGGGGGCTACAGGCCTGGGACC
 TTCTCTTCTGGTGCCTCCAGGACCCAATGTTGTGGAGGGGTTTCCCTGAGTCTCGAAGATGAGGAGGAA
 GATGATGAGGAGGAAGACTTCTGGATAAAATCAACCCTATTTATGATGCCCTGTCTACCCAGCCCT
 CTGACTCTACCAGAGCAAAGACTTTTTTGTGTCAGGGCCATGTATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208504 protein sequence
 Red=Cloning site Green=Tags(s)

MARAAVLPPSRLSPTLPLPLLLLLLQETGAQDVRVRVLPVVRGRLGGTVELPCHLLPPTTERVSQVTWQ
 RLDGTVVAAFHPSFGVDFPNSQFSKDRLSFVRRARPETNADLRDATLAFRGLRVEDEGNYTCEFATFPNGT
 RRGVTLWRVIAQPENHAEAQEVITIGPQSVAVARCVSTGGRPPARITWISSLGGEAKDTQEPGIQAGVTI
 ISRYSLVPVGRADGVKVTQVEHESFEETILLPVTLVRYPPPEVSIISGYDDNWYLGRSEAILTCDVRSNP
 EPTDYDWTSTSGVFPASAVAQGSQLLVHSVDRMVNTTFICTATNAVGTGRAEQVILVRESPTAGAGATG
 GIIGGIIAAIIATAVAGTGILICRQQRKEQRLQAADDEEELEGPSPYKPPTPKAKLEPEMPSQLFTLGA
 SEHSPVKTPYFDAGVSCADQEMPRYHELPTLEEWGPLLLGATGLGPSLLVPPGPNVVEGVSLSLEDEE
 DDEEDFLDKINPIYDALSYSPSDSYQSKDFFVSRAMYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_008990

ORF Size: 1593 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 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.

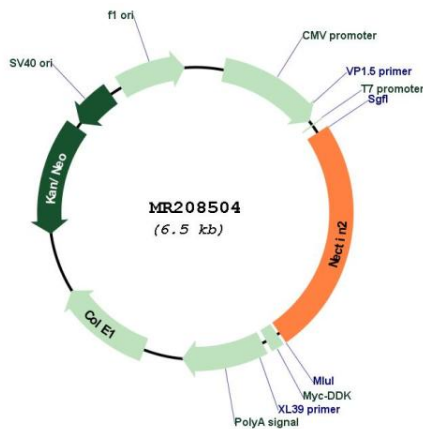
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: 2735 bp
 RefSeq ORF: 1593 bp
 Locus ID: 19294
 UniProt ID: [P32507](#)
 Cytogenetics: 7 9.94 cM
 MW: 57.3 kDa

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 MR208504