

Product datasheet for **MR204151**

Cd1d2 (BC057149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Cd1d2
Synonyms:	CD1.2; Cd1b; Ly-38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR204151 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGTACCTACCGTGCCTGTTGCTGTGGGCATTCTACAGGTCTGGGACAATCTGAAGTCCAGCAAA
AGAATTACACCTTCCGCTGCCTGCAGACTTCTTCCTTTGCTAACATAAGCTGGTCCCGCACAGACAGCCT
GATCTTGCTGGGGATCTGCAGACACCGTTGGAGTAATGACTCAGCCATCATCAGCTTCACGAAGCCA
TGGTCCCAGGATCCCATGAGATCCAGTTGCTACCGCTGTGAAATGTACCTGGGAATGCTTCGGAAA
GCTTTTTTCATGTAGCATTTCAAGGAAAAATGCCGTGAGATTCGGGGAACATCTTGGCAGAGGGTCCT
AGGGGCCCCATCTTGTTAGACTTGCCCATCAAAGTGCTCAACGCTGATCAAGGACAAGTGCAACCGTG
CAGACGCTCCTGAATGACACCTGGCCCCAGTTTGCCCGTGGTCTCCTAGAGGCAGGGAAGTCAGACCTAG
AGAAGCAAGAGAAGCCAGTGGCCTGGTTGTCCAGTGTCCCGCTCTGCACATGGCCATCTGCAGCTGGT
GTGTCATGTCTCTGGCTTCTACCCAAAACCTGTGTGGGTGATGTGGATGCGGGGTGACCAGGAGCAACAG
GGTACTCACAGAGGTGATTTCTGCCAAATGCTGATGAGACATGGTATCTTCAAGCAACCCCTGGATGTGG
AGGCTGGAGAGGAAGCTGGCCTGGCCTGCAGGGTGAAGCACAGCAGCCTAGGAGGACAGGATATCATCCT
CTACTGGGATGCCAGGCAAGCACCCGTGGCCCTGATCGTCTTCATAGTACTAATCATGCTAGTGGTGGT
GGTGCTGTAGTCTACTATATCTGGAGAAGGAGAAGCGCTTATCAAGACATCCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGTTTAA



Protein Sequence:

>MR204151 protein sequence
Red=Cloning site Green=Tags(s)

MRYLPCLLLWAFQLVWQGSEVQKKNYFRCLQTSFFANISWSRTDSLILLGDLQTHRWSNDSIAISFTKP
 WSQDPIEIQLSGCEMYPGNASESFFHVAFQGYAVFRGTSWQRVLGAPSWLDLPKVLNADQGTSA TV
 QTLLNDTWPFARGLLAEAGKSDLEKQEKPAWLVSSVPSAAGHLQLVCHVSGFYPKPVVWMMRGDQEQQ
 GTHRGDFLPNADETWYLAQTLDVEAGEEAGLACRVKHSLSGGQDIILYIDARQAPVGLIVFIVLIMLVVV
 GAVYYIWRRRNAYSODIR

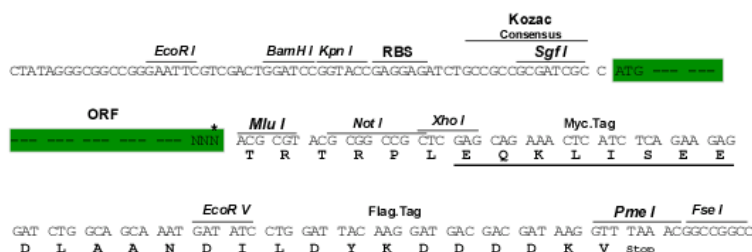
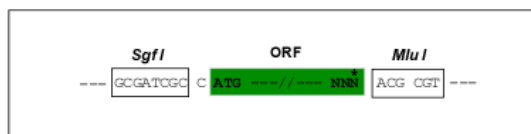
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

BC057149

ORF Size:

894 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:

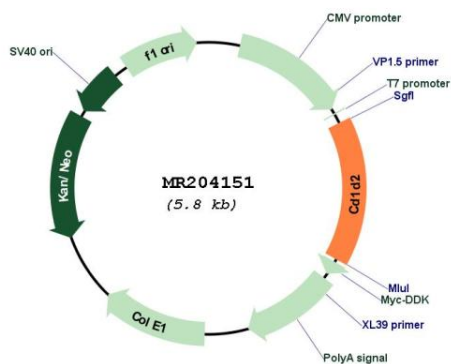
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC057149</u> , <u>AAH57149</u>
RefSeq Size:	1145 bp
RefSeq ORF:	896 bp
Locus ID:	12480
Cytogenetics:	3 37.88 cM
MW:	33.8 kDa
Gene Summary:	This gene encodes a MHC class I-like molecule involved in the presentation of lipid antigens to T cells, and is involved in the activation of Natural Killer T (NKT) cells. The gene is highly similar to the CD1d1 antigen gene, which is located adjacent to this gene in a tail-to-tail fashion. This gene contains a frameshift and does not produce a functional product in the C57BL/6 strain. Alternatively splice transcript variants encoding different isoforms have been found in non-C57BL/6 strains. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR204151