

Product datasheet for **MG204151**

Cd1d2 (BC057149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cd1d2
Synonyms:	CD1.2; Cdlb; Ly-38
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG204151 representing BC057149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGTACCTACCGTGCCTGTTGCTGTGGGCATTCTACAGGTCTGGGGACAATCTGAAGTCCAGCAAA
AGAATTACACCTTCCGCTGCCTGCAGACTTCTTCCTTTGCTAACATAAGCTGGTCCCGCACAGACAGCCT
GATCTTGCTGGGGATCTGCAGACACCGTTGGAGTAATGACTCAGCCATCATCAGCTTCACGAAGCCA
TGGTCCCAGGATCCCATGAGATCCAGTTGCTACCGGCTGTGAAATGTACCTGGGAATGCTTCGGAAA
GCTTTTTTCATGTAGCATTCAAGGAAAAATGCCGTGAGATCCGGGGAACATCTTGGCAGAGGGTCTCT
AGGGGCCCCATCTTGTTAGACTTGCCCATCAAAGTGCTCAACGCTGATCAAGGACAAGTGCAACCGTG
CAGACGCTCCTGAATGACACCTGGCCCCAGTTTGCCCGTGGTCTCCTAGAGGCAGGGAAGTCAGACCTAG
AGAAGCAAGAGAAGCCAGTGGCCTGGTTGTCCAGTGTCCCGAGCTCTGCACATGGCCATCTGCAGCTGGT
GTGTCATGTCTCTGGCTTCTACCCAAAACCTGTGTGGGTGATGTGGATGCGGGGTGACCAGGAGCAACAG
GGTACTCACAGAGGTGATTTCTGCCAAATGCTGATGAGACATGGTATCTTCAAGCAACCCCTGGATGTGG
AGGCTGGAGAGGAAGCTGGCCTGGCCTGCAGGGTGAAGCACAGCAGCCTAGGAGGACAGGATATCATCCT
CTACTGGGATGCCAGGCAAGCACCCGTGGCCTGATCGTCTTCATAGTACTAATCATGCTAGTGGTGGT
GGTGCTGTAGTCTACTATATCTGGAGAAGGAGAAGCGCTTATCAAGACATCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG204151 representing BC057149
 Red=Cloning site Green=Tags(s)

MRYLPCLLLWAFLLQVWGQSEVQKKNYTFRCLQTSSFANISWSRTDSLILLGDLQTHRWSNDSAIISFTKP
 WSQDPIEIQSTGCEMYPGNASESFFHVAFAQGKYAVRFRGTSWQRVLGAPSWLDLPIKVLNADQGTSAIV
 QTLLNDTWPOFARGLLLEAGKSDLEKQEKPAWLSSVPSSAHGHLQLVCHVSGFYKPVVWMMWRGDQEQQ
 GTHRGDFLPNADETWYLQATLDVEAGEEAGLACRVKHSSLGQDIIILYWDARQAPVGLIVFIVLIMLVV
 GAVVYIWRRRSAYQDIR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: BC057149

ORF Size: 894 bp

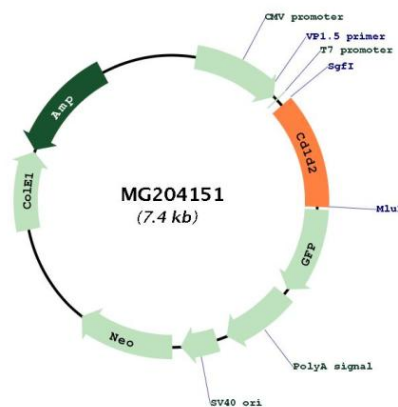
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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
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 MG204151