

Product datasheet for MR217840

Cd226 (NM_178687) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd226 (NM_178687) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd226
Synonyms:	BC051526; DNAM-1; DNAM1; Pta1; TLISA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217840 representing NM_178687 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTATGTTACTTGGCTTTTGGCTATTCTTCATGTGCACAAAGCACTGTGTGAAGAGACATTGTGGG
ACACAACAGTTCGGCTTCTGAGACTATGACTCTGGAATGTGTATATCCATTGACGCATAACTTAACCCA
GGTGGAGTGGACCAAGAAGCACTGGCACAAAGACAGTGAGCATAGCAGTTTACAACCCTAACATAATATG
CATATAGAATCTAACTACCTCCATAGAGTACACTTCTAACTCAACAGTGGGGTCCGCAACATGAGCC
TTTCCTTTTACAATGCCTCAGAAGCAGACATTGGCATCTACTCCTGCTTGTTCATGCTTTCCCAAATGG
ACCTTGGGAAAAGAAGATAAAAGTAGTCTGGTCAGATAGTTTTGAGATAGCAGCACCTCGGATAGCTAC
CTGTCTGCAGAACCTGGACAAGATGTACACTCACTTGGCAGCTTCCAAGGACTTGGCCAGTGCAACAAG
TCATATGGGAAAAGTCCAGCCCATCAGGTAGACATCTTAGCTTCTGTAACTATCTCAAGAGACAAG
ATACACTTCAAAGTACCTAAGACAAACAAGGAGCAACTGTAGCCAGGGGAGCATGAAGAGCATCCTCATC
ATTCCAAATGCCATGGCCGCTGACTCAGGACTTACAGATGTGCTCAGAGGCCATTACAGGAAAAACA
AGTCTTTGTGATAAGGCTGATCATAACTGATGGTGAACCAATAAACATTTTATCTTCCCATCGTTGG
AGGGTTAGTTTCACTGTTACTTGTATCCTAATTATCATCATTTTTCATTTTATATAACAGGAAGAGACGG
AGACAGGTGAGAATTCCTTAAAGAGCCAGGGATAAACAGAGTAAGGTAGCCACCAACTGCAGAAGTC
CTACTTCTCCATCCAGTCTACAGATGATGAAAAGAGGACATTTATGTAACCTATCCAACCTTCTCTCG
AAGACCAAAACCAAGACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217840 representing NM_178687
Red=Cloning site Green=Tags(s)

MAYVTWLLAILHVHKALCEETLWDTTVRLSETMTLECVYPLTHNLTQVEWTKNTGKTKVSIAYVNPNNHM
 HIESNYLHRVHFLNSTVGFNRMSLSFYNAEADIGIYSCLFHAFNPGPWEKKIKVWSDSFEIAAPSDSY
 LSAEPGQDVTLCQLPRTWPVQQVIWEKVQPHQVDILASCNLSQETRYTSKYLRQTRSNCSSQGSMSIL
 IPNAMAADSGLYRCRSEAITGKNKSFVIRLIITDGGTNKHFILPIVGGVLSLLLVLIIIIIFILYNRKRR
 RQVRIPLKEPRDKQSKVATNCRSPTSPIQSTDDKEKEDIYVNYPTFSRRPKPRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178687

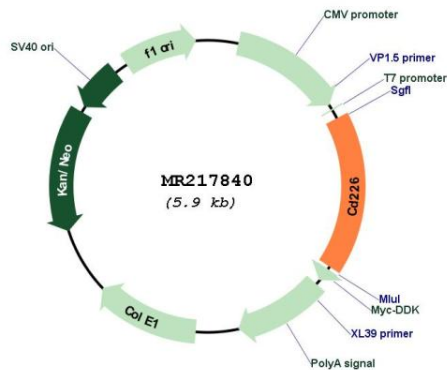
ORF Size: 999 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_178687.2</u> , <u>NP_848802.2</u>
RefSeq Size:	2487 bp
RefSeq ORF:	1002 bp
Locus ID:	225825
UniProt ID:	<u>Q8K4F0</u>
Cytogenetics:	18 E4
MW:	38.5 kDa
Gene Summary:	Involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-lymphocyte (CTL) and NK cell. Cell surface receptor for NECTIN2. Upon ligand binding, stimulates T-cell proliferation and cytokine production, including that of IL2, IL5, IL10, IL13, and IFNG. Competes with PVRIG for NECTIN2-binding. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217840