

Product datasheet for **MG217840**

Cd226 (NM_178687) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd226 (NM_178687) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd226
Synonyms:	BC051526; DNAM-1; DNAM1; Pta1; TLISA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217840 representing NM_178687 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTATGTTACTTGGCTTTTGGCTATTCTTCATGTGCACAAAGCACTGTGTGAAGAGACATTGTGGG
ACACAACAGTTCGGCTTTCTGAGACTATGACTCTGGAATGTGTATATCCATTGACGCATAACTTAACCCA
GGTGGAGTGGACCAAGAAGCACTGGCACAAAGACAGTGAGCATAGCAGTTTACAACCCTAACATAATATG
CATATAGAATCTAACTACCTCCATAGAGTACACTTCTAAACTCAACAGTGGGGTCCGCAACATGAGCC
TTTCCTTTTACAATGCCTCAGAAGCAGACATTGGCATCTACTCCTGCTTGTTCATGCTTTCCCAAATGG
ACCTTGGGAAAAGAAGATAAAAGTAGTCTGGTCAGATAGTTTTGAGATAGCAGCACCCCTCGGATAGCTAC
CTGTCTGCAGAACCTGGACAAGATGTACACTCACTTGGCAGCTTCCAAGGACTTGGCCAGTGCAACAAG
TCATATGGGAAAAAGTCCAGCCCATCAGGTAGACATCTTAGCTTCTGTAACTATCTCAAGAGACAAG
ATACACTTCAAAGTACCTAAGACAAACAAGGAGCAACTGTAGCCAGGGGAGCATGAAGAGCATCCTCATC
ATTCCAAATGCCATGGCCGCTGACTCAGGACTTACAGATGTGCTCAGAGGCCATTACAGGAAAAACA
AGTCTTTGTGATAAGGCTGATCATAACTGATGGTGAACCAATAAACATTTTATCTTCCCATCGTTGG
AGGGTTAGTTTCACTGTTACTTGTATCCTAATTATCATCATTTTTCATTTTATATAACAGGAAGAGACGG
AGACAGGTGAGAATTCACCTTAAAGAGCCAGGGATAAACAGAGTAAGGTAGCCACCAACTGCAGAAGTC
CTACTTCTCCATCCAGTCTACAGATGATGAAAAGAGGACATTTATGTAACACTCAACTTTCTCTCG
AAGACCAAAACCAAGACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217840 representing NM_178687
Red=Cloning site Green=Tags(s)

MAYVTWLLAILHVHKALCEETLWDTTVRLSETMTLECVYPLTHNLTQVEWTKNTGKTKTVSIAVYNPNNHM
 HIESNYLHRVHFLNSTVGFNMSLSFYNAEADIGIYSCLFHAFNPGPWEKKIKVWVSDSFEIAAPSDSY
 LSAEPGDVTLTCQLPRTWPVQQVIWEKVQPHQVDILASCNLSQETRYTSKYLRQTRSNCSQGSMSKIL
 IPNAMAADSGLYRCRSEAITGKNKSFVIRLIITDGGTNKHFILPIVGGVLSLLVILIIIFILYNRKRR
 RQVRIPLKEPRDKQSKVATNCRSPTSPIQSTDDEKEDIYVNYPTFSRRPKPRL

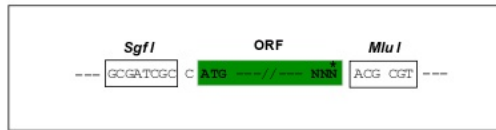
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3403_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



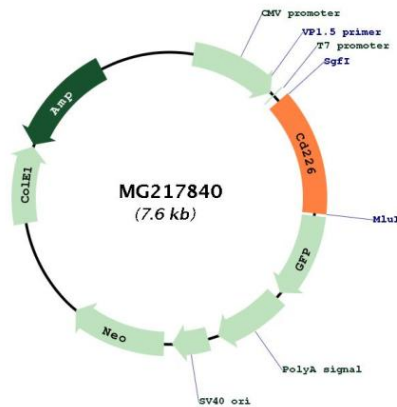
ACCN: NM_178687

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:	NM_178687.2 , NP_848802.2
RefSeq Size:	2487 bp
RefSeq ORF:	1002 bp
Locus ID:	225825
UniProt ID:	Q8K4F0
Cytogenetics:	18 E4
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 MG217840