

Product datasheet for **RG210437**

CD226 (NM_006566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD226 (NM_006566) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD226
Synonyms:	DNAM-1; DNAM1; PTA1; TLISA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210437 representing NM_006566 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTATCCTACTTTACTTTTGGCTCTTCTTCATGTATACAGAGCTCTATGTGAAGAGGTGCTTTGGC
ATACATCAGTTCCTTTGCCGAGAACATGTCTCTAGAATGTGTGTATCCATCAATGGGCATCTTAACACA
GGTGGAGTGGTTCAAGATCGGGACCCAGCAGGATCCATAGCCATTTTCAGCCCTACTCATGGCATGGTC
ATAAGGAAGCCCTATGCTGAGAGGGTTACTTTTTGAATCAACGATGGCTTCCAATAACATGACTCTTT
TCTTTTCGGAATGCCTCTGAAGATGATGTTGGCTACTATTCCTGCTCTTTACACTTACCCACAGGGAAC
TTGGCAGAAGGTGATACAGGTGGTTCAGTCAGATAGTTTTGAGGCAGCTGTGCCATCAAATAGCCACATT
GTTTCGGAACCTGGAAAGAATGTCACACTCACTTGTGAGCCTCAGATGACGTGGCCTGTGCAGGCAGTGA
GGTGGGAAAAGATCCAGCCCCGTCAGATCGACCTTAACTTACTGCAACTTGGTCCATGGCAGAAATTT
CACCTCCAAGTCCCAAGACAAATAGTGAGCAACTGCAGCCACGGAAGGTGGAGCGTCATCGTCATCCCC
GATGTCACAGTCTCAGACTCGGGGCTTTACCGTGTACTTGCAGGCCAGCGCAGGAGAAAACGAAACCT
TCGTGATGAGATTGACTGTAGCCGAGGGTAAAACCGATAACCAATATACCCTCTTTGTGGCTGGAGGGAC
AGAGAGAAGAGATCTATTTACAGAGTCTGGGATACACAGAAGGCACCAATAACTATAGAAGTCCCA
TCTCTACCGTCAACCTACCAATCAATCCATGGATGATACAAGAGAGGATATTTATGTCAACTATCCAAC
CTTCTCTCGCAGACCAAAGACTAGAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210437 representing NM_006566
 Red=Cloning site Green=Tags(s)

MDYPTLLLALLHVYRALCEEVLWHTSVPFANMSLECVYPSMGILTQVEWFKIGTQQDSIAIFSPTHGMV
 IRKPYAERVYFLNSTMASNNMTLFFRNASEDDVGYSSCLYTPQGTWQKVIQVVQSDSFEAAVPSNSHI
 VSEPGKNVTLTCQPQMTWPVQAVRWEKIQPRQIDLLTYCNLVHGRNFTSKFPRQIVSNCSHGRWSVIVIP
 DVTVSDSGLYRCYLQASAGENETFVMRLTVAEGKTDNQYTLFVAGGTVLLLLFVISITTIIVIFLNRRRR
 RERRDLFTESWDTQKAPNNYRSPISTGQPTNQSMDDTREDIYVNYPTFSRRPKTRV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006566

ORF Size: 1008 bp

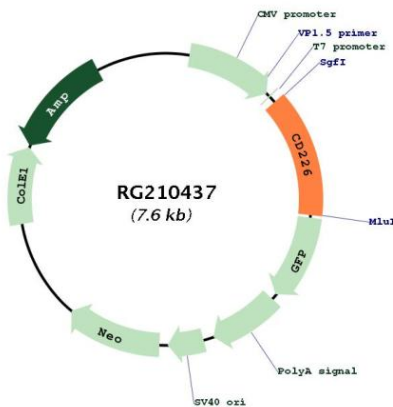
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_006566.1](#), [NP_006557.1](#)
- RefSeq Size:** 2603 bp
- RefSeq ORF:** 1011 bp
- Locus ID:** 10666
- UniProt ID:** [Q15762](#)
- Cytogenetics:** 18q22.2
- Protein Families:** Druggable Genome, Transmembrane
- Protein Pathways:** Cell adhesion molecules (CAMs)
- Gene Summary:** This gene encodes a glycoprotein expressed on the surface of NK cells, platelets, monocytes and a subset of T cells. It is a member of the Ig-superfamily containing 2 Ig-like domains of the V-set. The protein mediates cellular adhesion of platelets and megakaryocytic cells to vascular endothelial cells. The protein also plays a role in megakaryocytic cell maturation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG210437