

Product datasheet for **SC303792**

CD226 (NM_006566) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD226 (NM_006566) Human Untagged Clone
Tag: Tag Free
Symbol: CD226
Synonyms: DNAM-1; DNAM1; PTA1; TLISA1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC303792 representing NM_006566.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATTATCCTACTTTACTTTTGGCTCTTCTTCATGTATACAGAGCTCTATGTGAAGAGGTGCTTTGG
CATACATCAGTCCCTTTGCCGAGAACATGTCTCTAGAATGTGTGTATCCATCAATGGGCATCTTAACA
CAGGTGGAGTGGTTCAAGATCGGGACCCAGCAGGATTCCATAGCCATTTTCAGCCCTACTCATGGCATG
GTCATAAGGAAGCCCTATGCTGAGAGGGTTACTTTTTGAATTCAACGATGGCTTCCAATAACATGACT
CTTTTCTTTCGGAATGCCTCTGAAGATGATGTTGGCTACTATTCCTGCTCTCTTTACACTTACCCACAG
GGAACCTGGCAGAAGGTGATACAGGTGGTTCAGTCAGATAGTTTTGAGGCAGCTGTGCCATCAAATAGC
CACATTGTTTCGGAACCTGGAAAGAATGTCACACTCACTTGTGAGCCTCAGATGACGTGGCCTGTGCAG
GCAGTGAGGTGGGAAAAGATCCAGCCCCGTGAGTCGACCTCTTAACTTACTGCAACTTGGTCCATGGC
AGAAATTTACCTCCAAGTTCCCAAGACAAATAGTGAGCAACTGCAGCCACGGAAGGTGGAGCGTCATC
GTCATCCCCGATGTCACAGTCTCAGACTCGGGGCTTTACCGCTGCTACTTGCAGGCCAGCGCAGGAGAA
AACGAAACCTTCGTGATGAGATTGACTGTAGCCGAGGGTAAAACCGATAACCAATATACCTCTTTGTG
GCTGGAGGGACAGTTTTATTGTTGTTGTTGTTATCTCAATTACCACCATCATTGTCATTTTCCTTAAC
AGAAGGAGAAGGAGAGAGAAGAGATCTATTTACAGAGTCTGGGATACACAGAAGGCACCCAATAAC
TATAGAAGTCCCCTCTACCGGTCAACCTACCAATCAATCCATGGATGATACAAGAGAGGATATTTAT
GTCAACTATCCAACCTTCTCTCGCAGACCAAGACTAGAGTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI
ACCN: NM_006566
Insert Size: 1011 bp



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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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA

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](#)

RefSeq Size: 2664 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)

MW: 38.6 kDa

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 encode the same isoform.