

Product datasheet for RC212520

CD83 (NM_001040280) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD83 (NM_001040280) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD83
Synonyms: BL11; HB15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212520 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGCGCGGCCTCCAGCTTCTGCTCCTGAGCTGCGCCTACAGCCTGGCTCCCGCAGCGCCGGAGGTGA
 AGGTGGCTTGCTCCGAAGATGTGGACTTGCCCTGCACCGCCCCCTGGGATCCGCAGGTTCCCTACACGGT
 CTCCTGGGTCAAGTTATTGGAGGTGGTGAAGAGAGGATGGAGACACCCAGGAAGACCACCTCAGGGGA
 CAGCACTATCATCAGAAGGGGCAAAATGGTTCTTTCGACGCCCAATGAAAGGCCCTATTCCTGAAGA
 TCCGAAACACTACCAGCTGCAACTCGGGGACATACAGGTGCACTCTGCAGGACCCGGATGGGCAGAGAAA
 CCTAAGTGGCAAGGTGATCTTGAGAGTGACAGGATGCCCTGCACAGCGTAAAGAAGAGACTTTTAAGAAA
 TACAGAGCGGAGATTGTCTGCTGCTGGCTCTGGTATTTTCTACTTAACACTCATCTTTTCACTTGTA
 AGTTTGACCGGCTACAGAGTATCTTCCAGATTTTCTAAAGCTGGCATGGAACGAGCTTTTCTCCAGT
 TACCTCCCAAAATAAGCATTTAGGGCTAGTGACTCCTACAAGACAGAAGTGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212520 protein sequence
 Red=Cloning site Green=Tags(s)

MSRGLQLLLLSCAYSLAPATPEVKVACSEDVDLPCTAPWDPQVPYTVSWVKLLEGG EERMETPQEDHLRG
 QHYHQKQNGSFDAPNERPYSKIRNTTSCNSGT YRCTLQDPDQQRNLSGKVILRVTGCPAQRKEETFKK
 YRAEIVLLLALVIFYLTLIIFTCKFARLQSI FPDFSKAGMERAFLPVTSPNKHLGLVTPHKTEL V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6312_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040280

ORF Size: 615 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.

RefSeq: [NM_001040280.1](#), [NP_001035370.1](#)

RefSeq Size: 2475 bp

RefSeq ORF: 615 bp

Locus ID: 9308

UniProt ID: [Q01151](#)

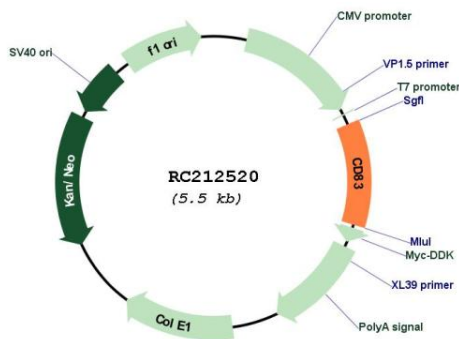
Cytogenetics: 6p23

Protein Families: Transmembrane

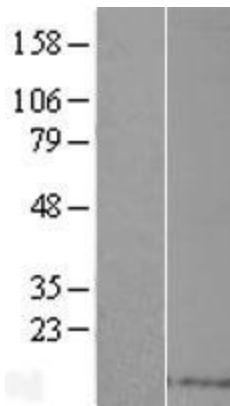
MW: 23 kDa

Gene Summary: The protein encoded by this gene is a single-pass type I membrane protein and member of the immunoglobulin superfamily of receptors. The encoded protein may be involved in the regulation of antigen presentation. A soluble form of this protein can bind to dendritic cells and inhibit their maturation. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

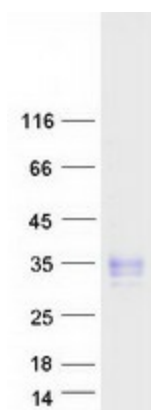
Product images:



Circular map for RC212520



Western blot validation of overexpression lysate (Cat# [LY421736]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212520 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD83 protein (Cat# [TP312520]). The protein was produced from HEK293T cells transfected with CD83 cDNA clone (Cat# RC212520) using MegaTran 2.0 (Cat# [TT210002]).