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Product datasheet for RC206356

CD200 (NM_005944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD200 (NM_005944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD200
Synonyms:	MOX1; MOX2; MRC; OX-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206356 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGGCTGGTGATCAGGATGCCCTTCTGTCATCTGTCTACCTACAGCCTGGTTTGGGTCATGGCAG
CAGTGGTGCTGTGCACAGCACAAGTGCAAGTGGTGACCCAGGATGAAAGAGAGCAGCTGTACACACCTGC
TTCCTTAAAATGCTCTCTGCAAAATGCCCAGGAAGCCCTCATTGTGACATGGCAGAAAAAGAAAGCTGTA
AGCCCAGAAAACATGGTCACCTTCAGCGAGAACCATGGGGTGGTGATCCAGCCTGCCTATAAGGACAAGA
TAAACATTACCCAGCTGGGACTCCAAAACTCAACCATCACCTTCTGGAATATCACCCTGGAGGATGAAGG
GTGTTACATGTGTCTCTTCAATACCTTTGGTTTTGGGAAGATCTCAGGAACGGCCTGCCTCACCGTCTAT
GTACAGCCCATAGTATCCCTTCACTACAAATTCTCTGAAGACCACCTAAATATCACTTGCTCTGCCACTG
CCCGCCCAGCCCCCATGGTCTTCTGGAAGGTCCCTCGGTCAGGGATTGAAAATAGTACAGTGACTCTGTC
TCACCCAAATGGGACCACGTCTGTTACCAGCATCCTCCATATCAAAGACCCTAAGAATCAGGTGGGGAAG
GAGGTGATCTGCCAGGTGCTGCACCTGGGGACTGTGACCGACTTTAAGCAAACCGTCAACAAAGGCTATT
GGTTTTCAGTTCCGCTATTGCTAAGCATTGTTTCCCTGGTAATTCTTCTCGTCCTAATCTCAATCTTACT
GTACTGGAAACGTCACCGGAATCAGGACCGAGAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206356 protein sequence
Red=Cloning site Green=Tags(s)

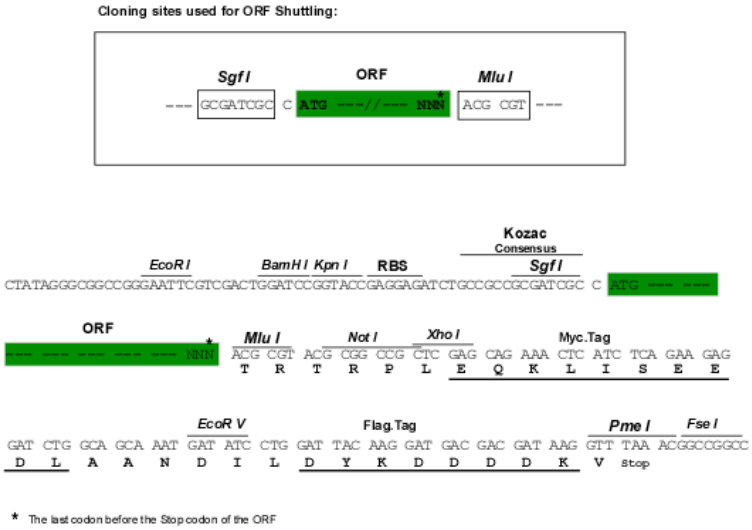
MERLVIRMPFCHLSTYSLVWVMAAVVLCTAQVQVVTQDEREQLYTPASLKCSLQNAQEALIVTWQKKKAV
SPENMVTFSENHGVVIQPAYKDKINITQLGLQNSTITFWNITLEDEGCYMCLFNTFGFGKISGTACLTVY
VQPIVSLHYKFSEDHLNITCSATARPAPMVFWKVPRSGIENSTVTLSHPNGTTSVTSILHIKDPKNQVGK
EVICQVLHLGTVTDFKQTVNKGYWFSVPLLLSIVSLVILLVLISILLYWKRHRNQDREP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6192_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005944

ORF Size: 807 bp

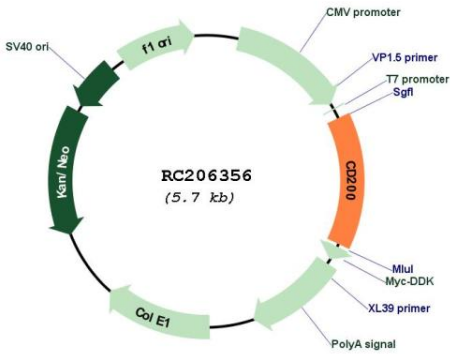
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

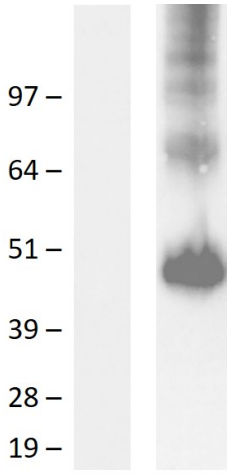
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_005944.4, NP_005935.3
RefSeq Size:	2226 bp
RefSeq ORF:	810 bp
Locus ID:	4345
UniProt ID:	P41217
Cytogenetics:	3q13.2
Domains:	ig, IGv, IG
Protein Families:	Transmembrane
MW:	30.3 kDa
Gene Summary:	This gene encodes a type I membrane glycoprotein containing two extracellular immunoglobulin domains, a transmembrane and a cytoplasmic domain. This gene is expressed by various cell types, including B cells, a subset of T cells, thymocytes, endothelial cells, and neurons. The encoded protein plays an important role in immunosuppression and regulation of anti-tumor activity. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]

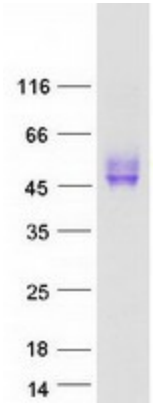
Product images:



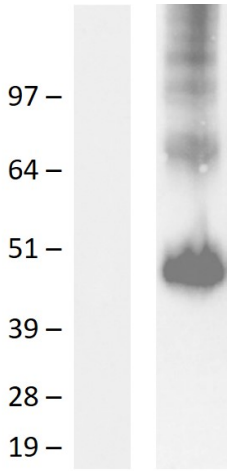
Circular map for RC206356



Western blot validation of overexpression lysate (Cat# [LY401799]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206356 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD200 protein (Cat# [TP306356]). The protein was produced from HEK293T cells transfected with CD200 cDNA clone (Cat# RC206356) using MegaTran 2.0 (Cat# [TT210002]).



Western blot validation of overexpression lysate (Cat# [LY401799]) using an anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206356 using transfection reagent PEI