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Product datasheet for RC204886

CD160 (NM_007053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD160 (NM_007053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD160
Synonyms:	BY55; NK1; NK28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204886 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTTGGAACCCGGCAGAGGCTGCTGTGCCCTGGCCATCCTGCTGGCAATTGTGGACATCCAGTCTG
GTGGATGCATTAACATCACCAGCTCAGCTTCCCAGGAAGGAACGCGACTAAACTTAATCTGTACTGTATG
GCATAAGAAAGAAGAGGCTGAGGGGTTTGTAGTGTTTTTGTGCAAGGACAGGTCTGGAGACTGTTCTCCT
GAGACCAGTTTAAAACAGCTGAGACTTAAAAGGGATCCTGGGATAGATGGTGTTGGTGAAATATCATCTC
AGTTGATGTTCACCATAAGCCAAGTCACACCGTTGCACAGTGGGACCTACCAGTGTTGTGCCAGAAGCCA
GAAGTCAGGTATCCGCCTTCAGGGCCATTTTTTCTCCATTCTATTCACAGAGACAGGGAACTACACAGTG
ACGGGATTGAAACAAAGACAACACCTTGAGTTCAGCCATAATGAAGGCACTCTCAGTTCAGGCTTCCTAC
AAGAAAAGGTCTGGGTAATGCTGGTCACCAGCCTTGTGGCCCTTCAAGCTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204886 protein sequence
Red=Cloning site Green=Tags(s)

MLLEPGRGCCALAILLAIVDIQSGGCINITSSASQEGTRLNLICTVWHKKEEAEGFVVFLCKDRSGDCSP
ETSLKQLRLKRDPGIDGVGEISSQLMFTISQVTPLHSGTYQCCARSQKSGIRLQGHFFSILFTETGNYTV
TGLKQRQHLEFSHNEGTLSSGFLQEKVWVMLVTSLVALQAL

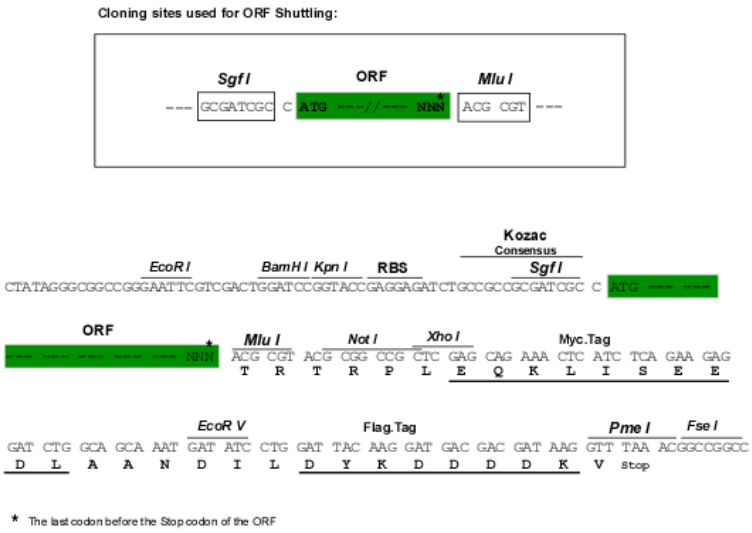
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6062_a01.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007053

ORF Size: 543 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

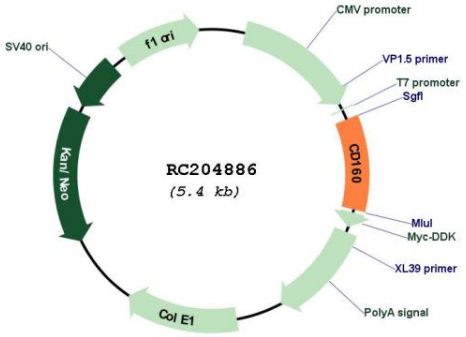
RefSeq: NM_007053.4

RefSeq Size: 1633 bp

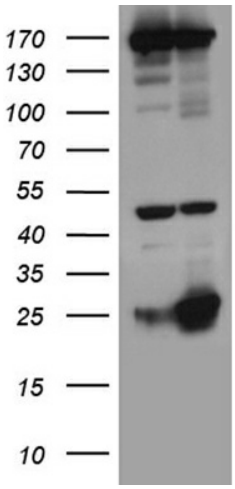
RefSeq ORF: 546 bp

Locus ID:	11126
UniProt ID:	O95971
Cytogenetics:	1q21.1
Protein Families:	Druggable Genome
MW:	19.8 kDa
Gene Summary:	CD160 is an 27 kDa glycoprotein which was initially identified with the monoclonal antibody BY55. Its expression is tightly associated with peripheral blood NK cells and CD8 T lymphocytes with cytolytic effector activity. The cDNA sequence of CD160 predicts a cysteine-rich, glycosylphosphatidylinositol-anchored protein of 181 amino acids with a single Ig-like domain weakly homologous to KIR2DL4 molecule. CD160 is expressed at the cell surface as a tightly disulfide-linked multimer. RNA blot analysis revealed CD160 mRNAs of 1.5 and 1.6 kb whose expression was highly restricted to circulating NK and T cells, spleen and small intestine. Within NK cells CD160 is expressed by CD56dimCD16+ cells whereas among circulating T cells its expression is mainly restricted to TCRgd bearing cells and to TCRab+CD8brightCD95+CD56+CD28-CD27-cells. In tissues, CD160 is expressed on all intestinal intraepithelial lymphocytes. CD160 shows a broad specificity for binding to both classical and nonclassical MHC class I molecules. [provided by RefSeq, Jul 2008]

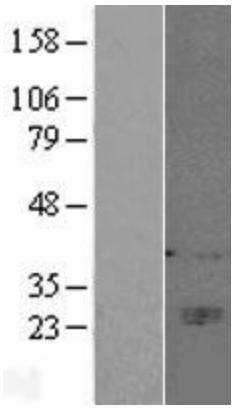
Product images:



Circular map for RC204886



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD160 (Cat# RC204886, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD160 (Cat# [TA809703])(1:2000). Positive lysates [LY402084] (100ug) and [LC402084] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402084]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204886 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).