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Product datasheet for MR201707

Cd160 (NM_001163496) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd160 (NM_001163496) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd160
Synonyms:	AU045688; By55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR201707 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAAGAATCCTGATGGCCCCTGGCCAAAGCTGCTGTGCCCTGGCCATCCTGCTGGCAATTGTGAACT
TCCAACATGGTGGATGTATTCATGTCACCAGCTCAGCATCCCAGAAAGGAGGGCGACTGGACCTCACCTG
TACTTTGTGGCACAAGAAAGACGAAGCTGAGGGGCTAATACTCTTCTGGTGCAAAGACAATCCTTGGAAC
TGTTCCCCTGAGACCAGCTTAGAACAGCTTAGGGTTAAAAGGGATCCTGAGACAGATGGCATCACTGAAA
AGTCATCTCAGTTGGTGTTCACCATAGAACAAGCTACACCATCAGACAGTGGGACCTACCAGTGCTGTGC
CAGAAGCCAGAAACCAGAAATCTACATTCATGGCCACTTTCTCTCCGTTCTAGTCACAGGGAACCACACA
GAGATAAGACAGAGACAAAGGTCACACCCTGACTTCAGCCATATCAACGGCACTCTCAGTTCAGGCTTCC
TGCAAGTAAAGGCTTGGGGGATGTTGGTCACCAGCCTGGTGGCCCTTCAAGCTCTATATACCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR201707 protein sequence
Red=Cloning site Green=Tags(s)

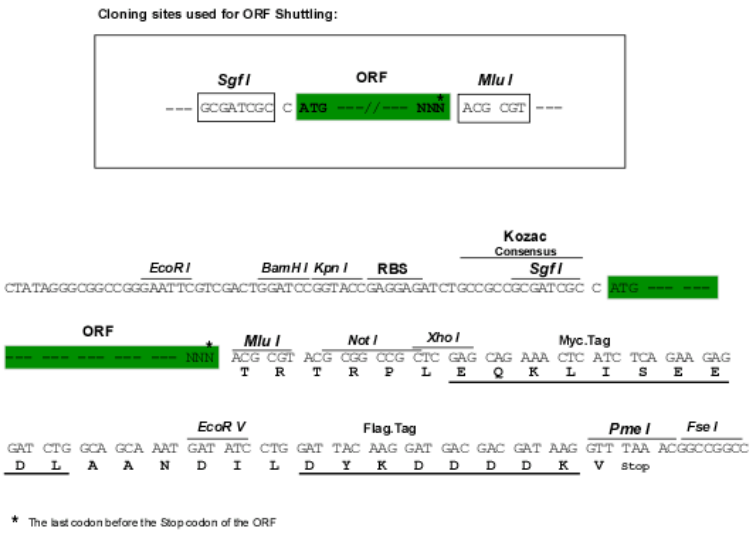
MQRILMAPGQSCCALAILLAIVNFQHGGCIHVTSSASQKGGRLDLTCTLWHKKDEAEGLILFWCKDNPWN
CSPETSLEQLRVKRDPETDGITEKSSQLVFTIEQATPSDSGTYQCCARSQKPEIYIHGHFLSVLVTGNHT
EIRQRQRSHPDFSHINGTLSSGFLQVKAWGMLVTSLVALQALYTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_001163496

ORF Size: 555 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_001163496.1, NP_001156968.1

RefSeq Size: 2590 bp

RefSeq ORF: 558 bp

Locus ID: 54215

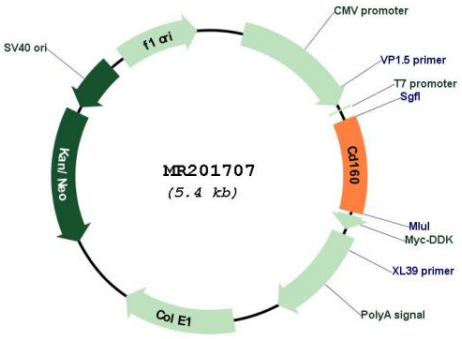
UniProt ID: O88875

Cytogenetics: 3 F2.1

MW: 20.5 kDa

Gene Summary: CD160 antigen: Receptor on immune cells capable to deliver stimulatory or inhibitory signals that regulate cell activation and differentiation. Exists as a GPI-anchored and as a transmembrane form, each likely initiating distinct signaling pathways via phosphoinositol 3-kinase in activated NK cells and via LCK and CD247/CD3 zeta chain in activated T cells (By similarity). Receptor for both classical and non-classical MHC class I molecules (PubMed:16177084). Receptor or ligand for TNF superfamily member TNFRSF14, participating in bidirectional cell-cell contact signaling between antigen presenting cells and lymphocytes. Upon ligation of TNFRSF14, provides stimulatory signal to NK cells enhancing IFNG production and anti-tumor immune response (PubMed:25711213). On activated CD4+ T cells, interacts with TNFRSF14 and downregulates CD28 costimulatory signaling, restricting memory and alloantigen-specific immune response (By similarity). In the context of bacterial infection, acts as a ligand for TNFRSF14 on epithelial cells, triggering the production of antimicrobial proteins and proinflammatory cytokines (PubMed:22801499).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201707