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Product datasheet for MC208264

Cd84 (NM_013489) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd84 (NM_013489) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd84
Synonyms:	A130013D22Rik; CDw84; SLAMF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC208264 representing NM_013489
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCAGCGCCATCTGTGGATCTGGTTCCTTTGCCTACAAACCTGGTCTGAAGCAGCAGGAAAAGATG
CAGACCCGATGGTAATGAATGGGATTCTTGGGGAGTCAGTTACTTTCCTCTTAAATATTCAAGAACCAAA
GAAAATTGACAACATTGCCTGGACTTCTCAATCATCTGTTGCTTTTATAAAACCAGGAGTCAATAAAGCT
GAAGTTACCATAACCCAGGGCACTTATAAAGGACGAATAGAAATCATAGATCAGAAGTATGACCTGGTCA
TTAGAGACCTGAGGATGGAAGATGCAGGAACTTACAAAGCAGACATCAATGAAGAGAATGAGGAAACCAT
CACCAAGATCTACTACCTTCATATCTACCGTCGACTTAAAACACCAAAAATTACACAGAGTTTGATATCA
TCTTTGAACAATACCTGTAATATCACACTGACATGCTCTGTGGAAAAGGAAGAAAAGGATGTCACATATA
GCTGGAGTCCCTTTGGAGAGAAAAGCAATGTCCTTCAAATCGTCCACTCCCCCATGGACCAAAAACTGAC
CTACACATGTACAGCCCAGAACCCTGTCAGCAACAGTTCTGACTCTGTCACTGTCCAGCAGCCATGTACA
GACACTCCAAGCTTCCATCCTCGCCATGCTGTGTTGCCAGGAGGATTGGCCGTGCTCTTTCTGCTTATTC
TCATTCCGATGTTGGCATTTCTGTTCCGTTTGTACAAGAGAAGGCGAGACAGGATTGTCCTGGAAGCAGA
TGATGTCTCAAAGAAAACAGTATATGCTGTAGTTTCAAGAAATGCTCAACCCACAGAGTCCAGAATCTAT
GATGAAATCCCTCAGTCCAAGATGCTGTCCTGTAAGAAAGATCCGGTGACCACCATTTATTCCTCAGTGC
AGCTTTCTGAGAAGATGAAGGAAACCAACATGAAGGACAGAAGTCTGCCTAAGGCTTTGGGTAATGAAAT
TGTTGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3398_a03.zip

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Restriction Sites:	SgfI-MluI
ACCN:	NM_013489
Insert Size:	990 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_013489.3, NP_038517.1
RefSeq Size:	3290 bp
RefSeq ORF:	990 bp
Locus ID:	12523
UniProt ID:	Q18PI6
Cytogenetics:	1 79.54 cM

Gene Summary: Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2 (PubMed:20962259). Can mediate natural killer (NK) cell cytotoxicity dependent on SH2D1A and SH2D1B (PubMed:20962259). Increases proliferative responses of activated T-cells and SH2D1A/SAP does not seen be required for this process. Homophilic interactions enhance interferon gamma/IFNG secretion in lymphocytes and induce platelet stimulation via a SH2D1A/SAP-dependent pathway. May serve as a marker for hematopoietic progenitor cells (By similarity). Required for a prolonged T-cell:B-cell contact, optimal T follicular helper function, and germinal center formation (PubMed:20153220). In germinal centers involved in maintaining B cell tolerance and in preventing autoimmunity (PubMed:25801429). In mast cells negatively regulates high affinity immunoglobulin epsilon receptor signaling; independent of SH2D1A and SH2D1B but implicating FES and PTPN6/SHP-1 (By similarity). In macrophages enhances LPS-induced MAPK phosphorylation and NF-kappaB activation and modulates LPS-induced cytokine secretion; involving ITSM 2 (PubMed:20628063). Positively regulates macroautophagy in primary dendritic cells via stabilization of IRF8; inhibits TRIM21-mediated proteasomal degradation of IRF8 (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.