

Product datasheet for MR219598

Cd84 (NM_013489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd84 (NM_013489) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd84
Synonyms:	A130013D22Rik; CDw84; SLAMF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219598 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGCGCCATCTGTGGATCTGGTTCCTTTGCCTACAAACCTGGTCTGAAGCAGCAGGAAAAGATG
CAGACCCGATGGTAATGAATGGGATTCTGGGGAGTCAGTTACTTTCTCTTAAATATTCAAGAACCAA
GAAAATTGACAACATTGCCTGGACTTCTCAATCATCTGTTGCTTTATAAAACCAGGAGTCAATAAAGCT
GAAGTTACCATAACCCAGGGCACTTATAAAGGACGAATAGAAATCATAGATCAGAAGTATGACCTGGTCA
TTAGAGACCTGAGGATGGAAGATGCAGGAACCTTACAAAGCAGACATCAATGAAGAGAATGAGGAAACCAT
CACCAAGATCTACTACCTTCATATCTACCGTCGACTTAAAACACCAAAAATTACACAGAGTTTGATATCA
TCTTTGAACAATACCTGTAATATCACACTGACATGCTCTGTGGAAAAGGAAGAAAAGGATGTCACATATA
GCTGGAGTCCCTTTGGAGAGAAAAGCAATGTCCTTCAAATCGTCCACTCCCCATGGACCAAAAACCTGAC
CTACACATGTACAGCCCAGAACCCTGTCAGCAACAGTTCTGACTCTGTCCTGTCAGCAGCCATGTACA
GACACTCCAAGCTTCCATCCTCGCCATGCTGTGTTGCCAGGAGGATTGGCCGTGCTCTTTCTGCTTATTC
TCATTCCGATGTTGGCATTCTGTTCCGTTTGTACAAGAGAAGGCGAGACAGGATTGTCCTGGAAGCAGA
TGATGTCTCAAAGAAAACAGTATATGCTGTAGTTTCAAGAAATGCTCAACCCACAGAGTCCAGAATCTAT
GATGAAATCCCTCAGTCCAAGATGCTGTCTGTAAAGAAAGATCCGGTGACCACCATTTATTCCTCAGTGC
AGCTTTCTGAGAAGATGAAGGAAACCAACATGAAGGACAGAAGTCTGCCTAAGGCTTTGGTAATGAAAT
TGTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219598 protein sequence
Red=Cloning site Green=Tags(s)

MAQRHLWIWFLCLQTWSEAAGKDADPMVMNGILGESVTFLNNIQEPKKIDNIAWTSQSSVAFIKPGVNKA
 EVTITQGTYKGRIEIIDQKYDLVIRDLRMEAGTYKADINEENEETITKIYYLHIYRRLKTPKITQSLIS
 SLNNTCNITLTCSEVEKEEKDVITYSWSPFGEKSNVLQIVHSPMDQKLTYTCTAQNVPVSNSSDVTVQQPCT
 DTPSFHPRHAVLPGGLAVLFLILIPMLAFLFRLYKRRRDRIVLEADDVSKKTVYAVVSRNAQPTESRIY
 DEIPQSKMLSCKKDPVTIYSSVQLSEMKETNMKDRSLPKALGNEIVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013489

ORF Size: 990 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_013489.1](#), [NM_013489.2](#), [NM_013489.3](#), [NP_038517.1](#)

RefSeq Size: 3290 bp

RefSeq ORF: 990 bp

Locus ID: 12523

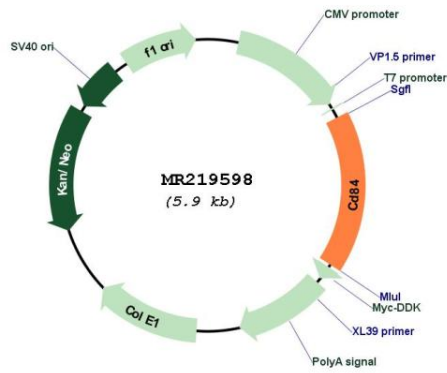
UniProt ID: [Q18PI6](#)

Cytogenetics: 1 79.54 cM

MW: 37.4 kDa

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 seem to 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]

Product images:



Circular map for MR219598