

Product datasheet for **RC204477**

CD84 (NM_003874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD84 (NM_003874) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD84
Synonyms:	hCD84; LY9B; mCD84; SLAMF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204477 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGCACCTATGGATCTTGCTCCTTTGCTGCAAACCTGGCCGGAAGCAGCTGGAAAAGACT
CAGAAATCTTCACAGTGAATGGATTCTGGGAGAGTCAGTCACCTTCCCTGTAATATCCAAGAACCAGC
GCAAGTAAAATCATTGCTTGGACTTCTAAAACATCTGTTGCTTATGTAAACACCAGGAGACTCAGAAACA
GCACCCGTAGTTACTGTGACCCACAGAAATTATTATGAACGGATACATGCCTTAGGTCGAACTACAATC
TGGTCATTAGCGATCTGAGGATGGAAGACGCAGGAGACTACAAAGCAGACATAAATACACAGGCTGATCC
CTACACCACCAAGCGCTACAACCTGCAATCTATCGTCGGCTTGGGAAACAAAAATTACACAGAGT
TTAATGGCATCTGTGAACAGCACCTGTAATGTCACACTGACATGCTCTGTAGAGAAAAGAAGAAAAGAAATG
TGACATACAATTGGAGTCCCCTGGGAGAAGAGGGTAATGTCTTCAAATCTTCCAGACTCCTGAGGACCA
AGAGCTGACTTACACGTGTACAGCCAGAACCCTGTCAGCAACAATTCTGACTCCATCTCTGCCCGGCGAG
CTCTGTGCAGACATCGCAATGGGCTTCCGTACTCACCACACCGGGTTGCTGAGCGTGCTGGCTATGTTCT
TTCTGCTTGTTCATTCTGTCTTCAGTGTTTTTGTCCGTTTGTTCAGAGAAGACAAGATGCTGCCTC
AAAGAAAACCATATACATATATCATGGCTTCAAGGAACACCCAGCCAGCAGAGTCCAGAATCTATGAT
GAAATCCTGCAGTCCAAGGTGCTTCCCTCCAAGGAAGCCAGTGAACACAGTTTATCCGAAGTGCAAT
TTGCTGATAAGATGGGAAAGCCAGCACACAGGACAGTAAACCTCCTGGGACTTCAAGCTATGAAATTGT
GATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204477 protein sequence
Red=Cloning site Green=Tags(s)

MAQHHLWILLLLCLQTWPEAAGKDSEIFTVNGILGESVTFPVNIQEPRQVKIIAWTSKTSVAYVTPGDSET
 APVVTVTHRNYERIHALGPNYNLVIDLRMEDAGDYKADINTQADPYTTTKRYNLQIYRRLGKPKITQS
 LMASVNSTCNVTLTCSVEKEEKNVTYNWSPLGEEGNVLQIFQTPEDQELTYTCTAQNPVSNNSDSISARQ
 LCADIAMGFRTHHTGLLSVLAMFFLLVLILSSVFLFRLFKRRQDAASKKTIYTYIMASRNTQPAESRIYD
 EILQSKVLPKEEPVNTVYSEVQFADKMGKASTQDSKPPGTSSYEIVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6131_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003874

ORF Size: 984 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_003874.4](#)

RefSeq Size: 8245 bp

RefSeq ORF: 987 bp

Locus ID: 8832

UniProt ID: [Q9UIB8](#)

Cytogenetics: 1q23.3

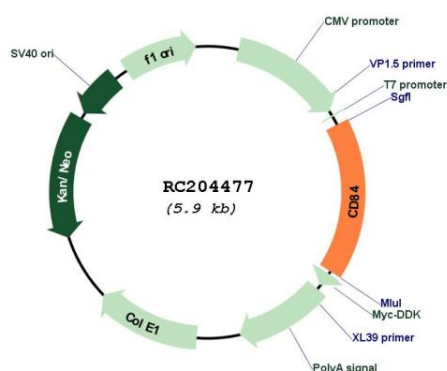
Domains: IG

Protein Families: Druggable Genome, Transmembrane

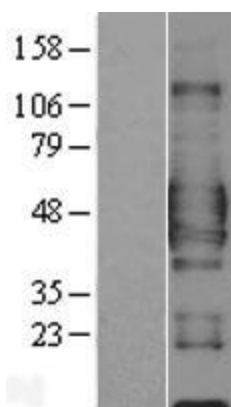
MW: 36.9 kDa

Gene Summary: This gene encodes a membrane glycoprotein that is a member of the signaling lymphocyte activation molecule (SLAM) family. This family forms a subset of the larger CD2 cell-surface receptor Ig superfamily. The encoded protein is a homophilic adhesion molecule that is expressed in numerous immune cells types and is involved in regulating receptor-mediated signaling in those cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011]

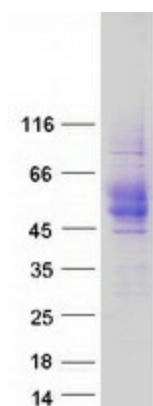
Product images:



Circular map for RC204477



Western blot validation of overexpression lysate (Cat# [LY401277]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204477 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD84 protein (Cat# [TP304477]). The protein was produced from HEK293T cells transfected with CD84 cDNA clone (Cat# RC204477) using MegaTran 2.0 (Cat# [TT210002]).