

Product datasheet for **RG204477**

CD84 (NM_003874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CD84
Synonyms:	hCD84; LY9B; mCD84; SLAMF5
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204477 representing NM_003874
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTCGGATACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGCACCACCTATGGATCTTGCTCCTTTGCCTGCAAACCTGGCCGGAAGCAGCTGGAAAAGACT
CAGAAATCTTCACAGTGAATGGGATTCTGGGAGAGTCAGTCACTTTCCCTGTAAATATCCAAGAACCACG
GCAAGTTAAATCATTGCTTGGACTTCTAAACATCTGTTGCTTATGTAACACCAGGAGACTCAGAAACA
GCACCCGTAGTTACTGTGACCCACAGAAATTATTATGAACGGATACATGCCTTAGGTCCGAACTACAATC
TGGTCATTAGCGATCTGAGGATGGAAGACGCAGGAGACTACAAAGCAGACATAAATACACAGGCTGATCC
CTACACCACCACCAAGCGCTACAACCTGCAATCTATCGTCGGCTTGGGAAACCAAAATTACACAGAGT
TTAATGGCATCTGTGAACAGCACCTGTAATGTCACACTGACATGCTCTGTAGAGAAAGAAGAAAAGATG
TGACATACAATTGGAGTCCCCTGGGAGAAGAGGGTAATGTCCTTCAAATCTCCAGACTCCTGAGGACCA
AGAGCTGACTTACACGTGTACAGCCAGAACCTGTCAAGCAAAATTCTGACTCCATCTCTGCCCGGCAG
CTCTGTGCAGACATCGCAATGGGCTTCCGTACTCACCACCGGGTTGCTGAGCGTGTGGCTATGTTCT
TTCTGCTTGTCTCATTCTGTCTTCAGTGTCTTGTCCGTTTGTCAAGAGAAGACAAGATGCTGCCTC
AAAGAAAACCATATACATATATCATGGCTTCAAGGAACACCCAGCCAGCAGAGTCCAGAATCTATGAT
GAAATCTGCAGTCCAAGGTGCTTCCCTCCAAGGAAGAGCCAGTGAACACAGTTTATCCGAAGTGCAGT
TTGCTGATAAGATGGGAAAGCCAGCACAGGACAGTAAACCTCTGGGACTTCAAGCTATGAAATTGT
GATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG204477 representing NM_003874
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MAQHHLWILLCLQWTWPEAAGKDSEIFTVNGILGESVTFPVNIQEPRQVKIIAWTSKTSVAYVTPGDSET
 APVVTVTHRNYYERIHAGPNYNLVISDLRMDAGDYKADINTQADPYTTTKRYNLQIYRRLGKPKITQS
 LMASVNSTCNVLTCSVEKEEKNVTYNWSPLGEEGNVLQIFQTPEDQELTYTCTAQNVPVSNNSDSISARQ
 LCADIAMGFRTHHTGLLSVLAMFFLLVLILSSVFLFRLFKRRQDAASKKTIYTYIMASRNTQPAESRIYD
 EILQSKVLPKEEPVNTVYSEVQFADKMGKASTQDSKPPGTSSYEIVI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003874

ORF Size: 984 bp

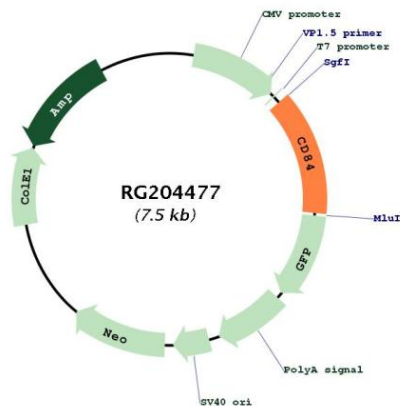
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003874.4</u>
RefSeq Size:	3299 bp
RefSeq ORF:	987 bp
Locus ID:	8832
UniProt ID:	<u>Q9UIB8</u>
Cytogenetics:	1q23.3
Domains:	IG
Protein Families:	Druggable Genome, Transmembrane
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 RG204477