

## Product datasheet for **RC236947**

### CD48 (NM\_001256030) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD48 (NM\_001256030) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CD48  
**Synonyms:** BCM1; BLAST; BLAST1; hCD48; mCD48; MEM-102; SLAMF2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236947 representing NM\_001256030  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCTCCAGAGTTGGGATTCGTGTCTGGCTCTGGAATTGCTACTGCTGCCTCTGTCACTCCTGGTGA  
CCAGCATTCAAGGTCACCTGGTACATATGACCGTGGTCTCCGGCAGCAACGTGACTCTGAACATCTCTGA  
GAGCCTGCCTGAGAACTACAAACAATAACCTGGTTTTACTTTTCGACCAGAAGATTGTAGAATGGGAT  
TCCAGAAAATCTAAGTACTTTGAATCCAAATTTAAAGGCAGGGTCAGACTTGATCCTCAGAGTGGCGCAC  
TGTACATCTCTAAGGTCCAGAAAGAGGACAACAGCACCTACATCATGAGGGTGTGAAAAAGACTGGGAA  
TGAGCAAGAATGGAAGATCAAGCTGCAAGTGCTTGACCCTGTACCAAGCCTGTCATCAAAATTGAGAAG  
ATAGAAGACATGGATGACAACCTGTTATCTGAAACTGTCATGTGTGATACCTGGCGAGTCTGTAACTACA  
CCTGGTATGGGGACAAAAGGCCCTTCCCAAAGGAGCTCCAGAACAGTGTGCTTGAACCACCTTATGCC  
ACATAATTACTCCAGGTGTTATACTTGCCAAGTCAGCAATTCTGTGAGCAGCAAGAATGGCACGGTCTGC  
CTCAGTCCACCCTGTACCCTGGTAAGAAGGATCCCTGGGAGCTGAGGGGGGCACAGGGTAACTGGAGTT  
GTTTTGAACAAAGAAAGGCTGGGGTCTATTACGCCCTCTTGCACAGTGTGGTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC236947 representing NM\_001256030  
Red=Cloning site Green=Tags(s)

MCSRGWDSCLALELLLLPLSLLVTSIQGHLVHMTVVSGSNVTLNISESLPENYKQLTFWYTFDQKIVEWD  
 SRKSKYFESKFKGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQEWKIKLQVLDPVKPKVIEIK  
 IEDMDDNCYLKLSCVIPGESVNYTWYGDKRPFKELQNSVLETTLMPHNYSRCYTCQVNSVSSKNGTVC  
 LSPPTLGKKDPWELRGAQGNWSCFEQRKAGGPIQPCTVWW

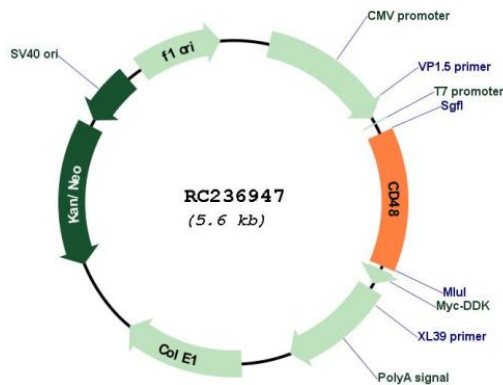
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001256030  
**ORF Size:** 756 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001256030.1</a> , <a href="#">NP_001242959.1</a>
<b>RefSeq Size:</b>	1537 bp
<b>RefSeq ORF:</b>	759 bp
<b>Locus ID:</b>	962
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>MW:</b>	29.3 kDa
<b>Gene Summary:</b>	This gene encodes a member of the CD2 subfamily of immunoglobulin-like receptors which includes SLAM (signaling lymphocyte activation molecules) proteins. The encoded protein is found on the surface of lymphocytes and other immune cells, dendritic cells and endothelial cells, and participates in activation and differentiation pathways in these cells. The encoded protein does not have a transmembrane domain, however, but is held at the cell surface by a GPI anchor via a C-terminal domain which maybe cleaved to yield a soluble form of the receptor. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]