

## Product datasheet for **RG204849**

### CD48 (NM\_001778) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD48 (NM_001778) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD48
Synonyms:	BCM1; BLAST; BLAST1; hCD48; mCD48; MEM-102; SLAMF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204849 representing NM_001778 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCTCCAGAGGTTGGGATTCGTGTCTGGCTCTGGAATTGCTACTGCTGCCTCTGCTCACTCCTGGTGA  
CCAGCATTCAAGGTCACCTGGTACATATGACCGTGGTCTCCGGCAGCAACGTGACTCTGAACATCTCTGA  
GAGCCTGCCTGAGAACTACAACTAACCTGGTTTTACTTTTCGACCAGAAGATTGTAGAATGGGAT  
TCCAGAAAATCTAAGTACTTTGAATCAAATTTAAAGGCAGGGTCAGACTTGATCCTCAGAGTGGCGCAC  
TGTACATCTCTAAGTCCAGAAAGAGGACAACAGCACCTACATCATGAGGGTGTGAAAAAGACTGGGAA  
TGAGCAAGAAATGGAAGATCAAGCTGCAAGTGCTTGACCCGTACCCAAGCCTGTCATCAAAATTGAGAAG  
ATAGAAGACATGGATGACAACCTGTTATTTGAACTGTCATGTGTGATACCTGGCGAGTCTGTAACTACA  
CCTGGTATGGGGACAAAAGGCCCTTCCCAAAGGAGCTCCAGAACAGTGTGCTTGAACCACCCCTTATGCC  
ACATAATTACTCCAGGTGTTATACTTGCCAAGTCAGCAATTCTGTGAGCAGCAAGAAATGGCACGGTCTGC  
CTCAGTCCACCCTGTACCCTGGCCCGTCTTTGGAGTAGAATGGATTGCAAGTTGGCTAGTGGTCACGG  
TGCCACCATTCTTGGCCTGTTACTTACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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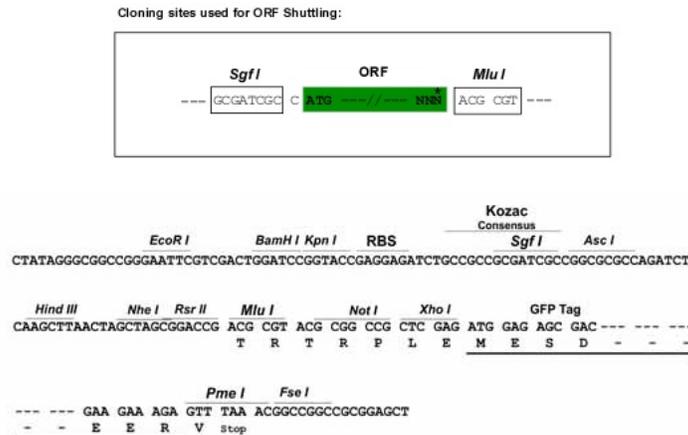
**Protein Sequence:** >RG204849 representing NM\_001778  
 Red=Cloning site Green=Tags(s)

MCSRGWDSCLALELLLLLPLSLLVTSIQGHLVHMTVVSGSNVTLNISESLPENYKQLTWFYTFDQKIVEWD  
 SRKSKYFESKFKGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQEWKIKLQVLDPVPKPVKIEK  
 IEDMDDNCYLKLSCVIPGESVNYTWYGDKRPFKELQNSVLETTLMPHNYSRCYTCQVNSVSSKNGTVC  
 LSPPCTLARSFGVEWIASWLVVTVPTILGLLLT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001778

**ORF Size:** 729 bp

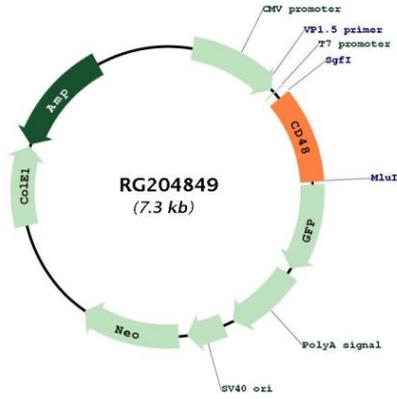
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u><a href="#">NM_001778.2</a></u> , <u><a href="#">NP_001769.2</a></u>
<b>RefSeq Size:</b>	1099 bp
<b>RefSeq ORF:</b>	732 bp
<b>Locus ID:</b>	962
<b>UniProt ID:</b>	<u><a href="#">P09326</a></u>
<b>Cytogenetics:</b>	1q23.3
<b>Domains:</b>	IG
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<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]

Product images:



Circular map for RG204849