

## Product datasheet for **RC236378**

### ICOS Ligand (ICOSLG) (NM\_001283051) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ICOS Ligand (ICOSLG) (NM\_001283051) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ICOSLG  
**Synonyms:** B7-H2; B7h; B7H2; B7RP-1; B7RP1; CD275; GL50; ICOS-L; ICOSL; LICOS  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236378 representing NM\_001283051  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCTGGGCAGTCCTGGACTGCTCTTCTGCTCTTCAGCAGCCTTCGAGCTGCAAATTCAGCGTGC  
CCGTCGTCAGCGCCCCACAGCCCTCCAGGATGAGCTCACCTTCACGTGTACATCCATAAACGGCTA  
CCCCAGGCCAACGTGTACTGGATCAATAAGACGGACAACAGCCTGCTGGACCAGGCTCTGCAGAATGAC  
ACCGTCTTCTTGAACATGCGGGCTTGTATGACGTGGTCAGCGTCTGAGGATCGCACGGACCCCGCG  
TGAACATTGGCTGCTGCATAGAGAACGTCTTCTGCAGCAGAACCTGACTGTCGGCAGCCAGACAGGAAA  
TGACATCGGAGAGAGACAAGATCACAGAGAATCCAGTCAGTACCGGCGAGAAAAACGCGGCCACGTGG  
AGCATCTGGCTGTCTGTGCCTGCTTGTGGTCGTGGCGGTGGCCATAGGCTGGGTGTGCAGGGACCGAT  
GCCTCCAACACAGCTATGCAGGTGCCTGGGCTGTGAGTCCGGAGACAGAGCTCACTGGCCACGTT

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236378 representing NM\_001283051  
Red=Cloning site Green=Tags(s)

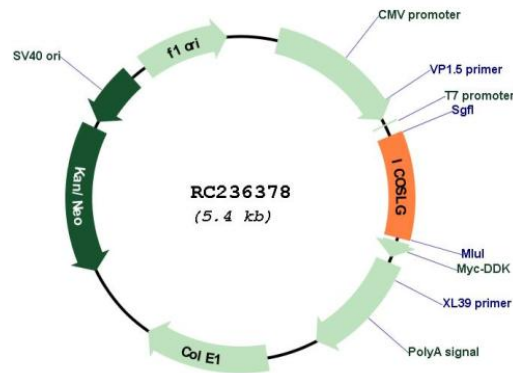
MRLGSPGLLFLFSSLRAANFVSPVVSAPHSPSQDELTFCTTSINGYPRPNVYWINKTDNSLLDQALQND  
TVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLLQQNLTVGSGTGNDIGERDKITENPVSTGEKNAATW  
SILAVLCLLVVVAVAIGWVCRDRCLQHSYAGAWAVSPETELTGHV

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001283051

**ORF Size:** 555 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.

<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_001283051.2</a>
<b>RefSeq Size:</b>	2969 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	23308
<b>UniProt ID:</b>	<a href="#">O75144</a>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>MW:</b>	20.6 kDa
<b>Gene Summary:</b>	Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells. Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function (By similarity).[UniProtKB/Swiss-Prot Function]