

Product datasheet for **SC309183**

ICOS Ligand (ICOSLG) (NM_015259) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICOS Ligand (ICOSLG) (NM_015259) Human Untagged Clone
Tag:	Tag Free
Symbol:	ICOS Ligand
Synonyms:	B7-H2; B7h; B7H2; B7RP-1; B7RP1; CD275; GL50; ICOS-L; ICOSL; LICOS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_015259 edited ATGCGGCTGGGCAGTCCCTGGACTGCTCTTCCTGCTCTTCAGCAGCCTTCGAGCTGATACT CAGGAGAAGGAAGTCAGAGCGATGGTAGGCAGCGACGTGGAGCTCAGCTGCGCTTGCCT GAAGGAAGCCGTTTTGATTTAAATGATGTTTACGTATATTGGCAAACAGTGAGTCGAAA ACCGTGGTGACCTACCACATCCCACAGAACAGCTCCTTGAAAAACGTGGACAGCCGCTAC CGGAACCGAGCCCTGATGTACCAGGCGGCATGCTGCGGGGCGACTTCTCCCTGCGCTTG TTCAACGTCAACCCAGGACGAGCAGAAAGTTTCACTGCCTGGTGTGAGCCAATCCCTG GGATTCCAGGAGTTTTGAGCGTTGAGTTACTGTCATGTGGCAGCAAACCTCAGCGTG CCCGTCGTGAGGATCGCAGGACCCCGAGCGTGAACATTGGCTGCTGCATAGAGAACGTG ATAAACGGCTACCCAGGCCAACGTGTACTGGATCAATAAGACGGACAACAGCCTGCTG GACCAGGCTCTGCAGAATGACACCGTCTTCTTGAACATGCGGGGCTTGTATGACGTGGTC AGCGTGCTGAGGATCGCAGGACCCCGAGCGTGAACATTGGCTGCTGCATAGAGAACGTG CTTCTGCAGCAGAACCTGACTGTGCGCAGCCAGACAGGAAATGACATCGGAGAGAGAGAC AAGATCACAGAGAATCCAGTCAGTACCGGCGAGAAAAACGCGGCCACGTGGAGCATCCTG GCTGTCTGTGCCTGCTTGTGGTCTGCGGGTGGCCATAGGCTGGGTGTGCAGGGACCGA TGCTCCAACACAGCTATGCAGGTGCCTGGGCTGTGAGTCCGGAGACAGAGCTCACTGGC CACGTTTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_015259



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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 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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_015259.4](#), [NP_056074.1](#)

RefSeq Size: 3239 bp

RefSeq ORF: 909 bp

Locus ID: 23308

UniProt ID: [O75144](#)

Cytogenetics: 21q22.3

Protein Families: Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary:

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform a.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.