

Product datasheet for **RG208975**

ICOS Ligand (ICOSLG) (NM_015259) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICOS Ligand (ICOSLG) (NM_015259) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ICOS Ligand
Synonyms:	B7-H2; B7h; B7H2; B7RP-1; B7RP1; CD275; GL50; ICOS-L; ICOSL; LICOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208975 representing NM_015259 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTGGGCAGTCTGGACTGCTCTTCTGCTCTTCAGCAGCCTTCGAGCTGATACTCAGGAGAAGG
AAGTCAGAGCGATGGTAGGCAGCGACGTGGAGCTCAGCTGCGCTTGCCCTGAAGGAAGCCGTTTTGATTT
AAATGATGTTTACGTATATTGGCAAACCAAGTGAGTCGAAAACCGTGGTGACCTACCACATCCCACAGAAC
AGCTCCTTGAAAACGTGGACAGCCGCTACCGGAACCGAGCCCTGATGTCACCGGCCGGCATGCTGCGGG
GCGACTTCTCCCTGCGCTTGTTCAACGTCACCCCCAGGACGAGCAGAAGTTTCACTGCCTGGTGTGAG
CCAATCCCTGGGATTCAGGAGTTTTGAGCGTTGAGGTTACACTGCATGTGGCAGCAAACCTTCAGCGTG
CCCGTCGTGAGCGCCCCACAGCCCCCTCCAGGATGAGCTCACCTTCACGTGTACATCCATAAACGGCT
ACCCCAGGCCCAACGTGTACTGGATCAATAAGACGGACAACAGCCTGCTGGACCAGGCTCTGCAGAATGA
CACCGTCTTCTTGAACATGCGGGGCTTGTATGACGTGGTCAGCGTGTGAGGATCGCACGGACCCCCAGC
GTGAACATTGGCTGCTGCATAGAGAACGTGCTTCTGCAGCAGAACCTGACTGTGGCAGCCAGACAGGAA
ATGACATCGGAGAGAGACAAGATCACAGAGAATCCAGTCAGTACCGGCGAGAAAAACCGGCCACGTG
GAGCATCTGGCTGTCTGTGCTGCTTGTGGTCGTGGCGGTGGCCATAGGCTGGGTGTGCAGGGACCGA
TGCCCTCAACACAGCTATGCAGGTGCCTGGGCTGTGAGTCCGGAGACAGAGCTCACTGGCCACGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208975 representing NM_015259
 Red=Cloning site Green=Tags(s)

MRLGSPGLLFLLFSSLRADTQEKEVRAMVGSDELSCACPEGSRFDLNDVYVYWQTSSEKTVVYHIPQN
 SLENVDSRYRNRALMSPAGMLRGDFSLRFLFNVTPODEQKFHCLVLSQSLGFQEVLSVEVTLHVAANFSV
 PVVSAPHSPSQDELTFCTCSINGYPRPNVYWINKTDNSLLDQALQNDTVFLNMRGLYDVVSVLRIARTPS
 VNI GCC IENVLLQQLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVVVAIGWVCRDR
 CLQHSYAGAWAVSPETELTGHV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015259

ORF Size: 906 bp

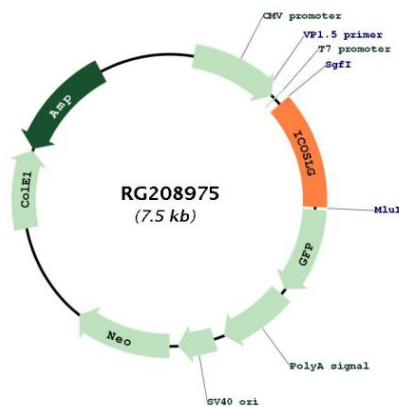
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.

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:	<ol style="list-style-type: none"> 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:	<u>NM_015259.6</u>
RefSeq Size:	3239 bp
RefSeq ORF:	909 bp
Locus ID:	23308
UniProt ID:	<u>Q75144</u>
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]

Product images:



Circular map for RG208975