

Product datasheet for **RG236647**

ICOS Ligand (ICOSLG) (NM_001283052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICOS Ligand (ICOSLG) (NM_001283052) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ICOSLG
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:	>RG236647 representing NM_001283052. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCACCGCCGGCATGCTGCGGGGCGACTTCTCCCTGCGCTTGTTCACGTCACCCCCAGGACGAG
CAGAAGTTTCACTGCCTGGTGTGAGCCAATCCCTGGGATTCCAGGAGTTTTGAGCGTTGAGGTTACA
CTGCATGTGGCAGCAAATTCAGCGTGCCCGTCGTCAGCGCCCCACAGCCCCTCCAGGATGAGCTC
ACCTTCACGTGTACATCCATAAACGGCTACCCAGGCCAACGTGTACTGGATCAATAAGACGGACAAC
AGCCTGCTGGACCAGGCTCTGCAGAATGACACCGTCTTCTTGAACATGCGGGGCTTGTATGACGTGGTC
AGCGTGCTGAGGATCGCACGGACCCCCAGCGTGAACATTGGCTGCTGCATAGAGAACGTGCTTCTGCAG
CAGAACCTGACTGTCGGCAGCCAGACAGGAAATGACATCGGAGAGAGACAAGATCACAGAGAATCCA
GTCAGTACCGGCCGAGAAAACGCGGCCACGTGGAGCATCCTGGCTGTCCTGTGCCTGCTTGTGGTCGTG
GCGGTGGCCATAGGCTGGGTGTGCAGGGACCGATGCCTCCAACACAGCTATGCAGGTGCCTGGGCTGTG
AGTCCGGAGACAGAGCTCACTGGCCACGTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236647
 Blue=ORF Red=Cloning site Green=Tag(s)

MSPAGMLRGDFSLRLFNVTPQDEQKFHCLVLSQSLGFQEVLSVEVTLHVAANFVSPVVSAPHSPSQDEL
 TFTCTSINGYPRPNVYWINKTDNSLLDQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLLQ
 QNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVVVAVAIGWVCRDRCLQHSYAGAWAV
 SPETELTGHV

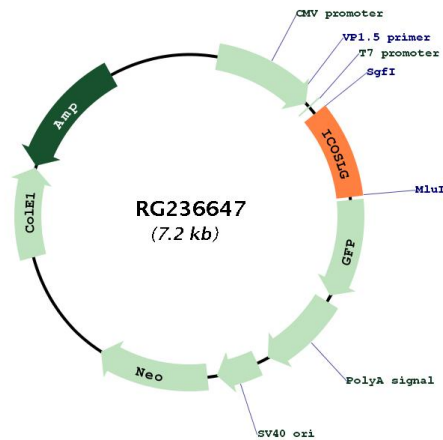
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001283052

ORF Size:	651 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.
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).
RefSeq:	NM_001283052.2
RefSeq Size:	3168 bp
RefSeq ORF:	654 bp
Locus ID:	23308
Cytogenetics:	21q22.3
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	24.2 kDa
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]