

## Product datasheet for **RG237359**

### ICOS Ligand (ICOSLG) (NM\_001283050) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ICOS Ligand (ICOSLG) (NM_001283050) 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:	>RG237359 representing NM_001283050. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGCTGGGCAGTCTGGACTGCTCTTCTGCTCTTCAGCAGCCTTCGAGCTGATACTCAGGAGAAG
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TTGAGCCAATCCCTGGGATTCCAGGAGTTTTGAGCGTTGAGGTTACACTGCATGTGGCAGCAAACCTTC
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GCGGCCAGTGGAGCATCCTGGCTGTCTGTGCCTGCTTGTGGTCTGTCGGTGGCCATAGGCTGGGTG
TGCAGGGACCGATGCCTCCAACACAGCTATGCAGGTGCCTGGGCTGTGAGTCCGGAGACAGAGCTCACT
GAATCCTGGAACCTGCTCCTTCTGCTCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237359  
 Blue=ORF Red=Cloning site Green=Tag(s)

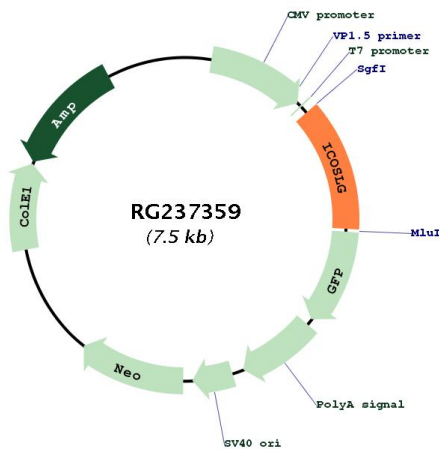
MRLGSPGLLFLLFSSLRADTQEKEVRAMVGSDELSCACPEGSRFDLNDVYVYWQTSSEKTVVYTHIPQ  
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 SVPVVSAPHSPSQDELTFCTCSINGYPRPNVYWINKTDNSLLDQALQNDTVFLNMRGLYDVVSVLRIAR  
 TPSVNI GCCIENVLLQQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVVVAVAIGWV  
 CRDRCLQHSYAGAWAVSPETELTESWNL L L L L L S  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001283050

<b>ORF Size:</b>	927 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>RefSeq:</b>	<a href="#">NM_001283050.2</a>
<b>RefSeq Size:</b>	1188 bp
<b>RefSeq ORF:</b>	930 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>	34.7 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]