

## Product datasheet for **RG207031**

### ICOS (NM\_012092) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ICOS (NM\_012092) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ICOS  
**Synonyms:** AILIM; CD278; CVID1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207031 representing NM\_012092  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTCAGGCCTCTGGTATTTCTTTCTTCTGCTTGCATTAAAGTTTTAACAGGAGAAATCAATG  
GTTCTGCCAATTATGAGATGTTTATATTTACACACGGAGGTGTACAAATTTATGCAAATATCCTGACAT  
TGTCAGCAATTTAAAAATGCAGTTGCTGAAAGGGGGCAAATACTCTGCGATCTCACTAAGACAAAAGGA  
AGTGAAAACACAGTGTCCATTAAGAGTCTGAAATCTGCCATTCTCAGTTATCCAACAACAGTGTCTCTT  
TTTTTCTATACAACTTGGACCATTCTCATGCCAACTATTACTTCTGCAACCTATCAATTTTTGATCCTCC  
TCCTTTTAAAGTAACTCTTACAGGAGGATATTTGCATATTTATGAATCACAACCTTTGTTGCCAGCTGAAG  
TTCTGGTTACCCATAGGATGTGCAGCCTTTGTTGTAGTCTGCATTTTGGGATGCATACTTATTTGTTGGC  
TTACAAAAAAGAAGTATTCATCCAGTGTGCACGACCCTAACGGTGAATACATGTTTCATGAGAGCAGTGAA  
CACAGCCAAAAATCTAGACTCACAGATGTGACCCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207031 representing NM\_012092  
Red=Cloning site Green=Tags(s)

MKSGLWYFFLFCLRIKVL TGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGQILCDLTKTKG  
SGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYFCNLSIFDPPPFKVTLTGGYLHIYESQLCCQLK  
FWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGEYMFMRVAVNTAKKSRLTDVTL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_012092

**ORF Size:** 597 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).

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_012092.4](#)

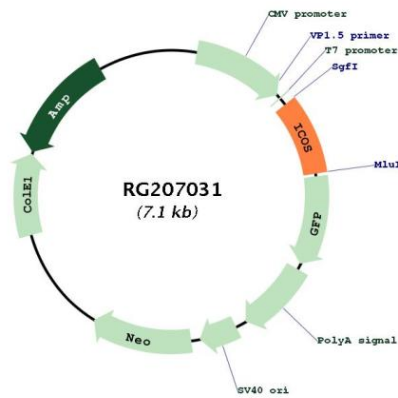
**RefSeq Size:** 2620 bp

**RefSeq ORF:** 600 bp

**Locus ID:** 29851

**UniProt ID:** [Q9Y6W8](#)  
**Cytogenetics:** 2q33.2  
**Protein Families:** Secreted Protein, Transmembrane  
**Protein Pathways:** Cell adhesion molecules (CAMs), Primary immunodeficiency, T cell receptor signaling pathway  
**Gene Summary:** The protein encoded by this gene belongs to the CD28 and CTLA-4 cell-surface receptor family. It forms homodimers and plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG207031