

Product datasheet for **SC122779**

ICOS (NM_012092) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICOS (NM_012092) Human Untagged Clone
Tag:	Tag Free
Symbol:	ICOS
Synonyms:	AILIM; CD278; CVID1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_012092 edited
CTGAACGCGAGGACTGTAACTGTTTCTGGCAAACATGAAGTCAGGCCTCTGGTATTTCT
TTCTCTTCTGCTTGCGCATTAAGTTTTAACAGGAGAAATCAATGGTTCTGCCAATTATG
AGATGTTTATATTTACAACGGAGGTGTACAAATTTTATGCAAATATCCTGACATTGTCC
AGCAATTTAAAATGCAGTTGCTGAAAGGGGGCAAATACTCTGCGATCTCACTAAGACAA
AAGGAAGTGAAACACAGTGTCCATTAAGAGTCTGAAATTTCTGCCATTCTCAGTTATCCA
ACAACAGTGTCTTTTTTTCTATACAACCTGGACCATTCTCATGCCAACTATTACTTCT
GCAACCTATCAATTTTTGATCCTCCTCTTTTAAAGTAACTCTTACAGGAGGATATTTGC
ATATTTATGAATCAACCTTTGTTGCCAGCTGAAGTTCTGGTTACCCATAGGATGTGCAG
CCTTTGTTGATGCTGCATTTTGGGATGCATACTTATTTGTTGGCTTACAAAAAGATGT
GACCTATAATATGGAACCTGGCACCCAGGCATGAAGCACGTTGGCCAGTTTTCTCAA
CTTGAAGTCAAGATTCTTATTTCCGGGACCACGGAGAGTCTGACTTAACTACATACA
TCTTCTGCTGGTGTGTTTCAATCTGGAAGAATGACTGTATCAGTCAATGGGGATTTA
ACAGACTGCCCTGGTACTGCCGAGTCTCTCAAAACAAACACCCTTGGCAACCAGCTTT
GGAGAAAGCCCAGCTCCTGTGTGCTCACTGGGAGTGAATCCCTGTCTCCACATCTGCTC
CTAGCAGTGCATCAGCCAGTAAACAAACACATTTACAAGAAAAATGTTTTAAAGATGCC
AGGGGTACTGAATCTGCAAAGCAAATGAGCAGCCAAGGACCAGCATCTGTCCGCATTTCA
CTATCATACTACCTCTTCTTCTGTAGGGATGAGAATTCCTCTTTTAAATCAGTCAAGGGA
GATGCTTCAAAGCTGGAGCTATTTTATTTCTGAGATGTTGATGTGAACGTGTACATTAGTA
CATACTCAGTACTCTCCTTCAATTGCTGAACCCAGTTGACCATTTTACCAAGACTTTAG
ATGCTTTCTTGTGCCCTCAATTTCTTTTTAAAAATACTTCTACATGACTGCTTGACAGC
CCAACAGCCACTCTCAATAGAGAGCTATGTCTTACATTTCTTCTCTGCTGCTCAATAGT
TTTATATATCTATGCATACATATATACACACATATGTATATAAAAATTCATAATGAATATA
TTTGCCTATATTTCCCTACAAGAATATTTTTGCTCCAGAAAGACATGTTCTTTTCTCAA
ATTCAGTTAAAATGGTTTACTTTGTTCAAGTTAGTGGTAGGAAACATTGCCCGAATTGA
AAGCAAATTTATTTTATTATCCTATTTTCTACCATTATCTATGTTTTTATGGTGCTATTA
ATTACAAGTTTAGTTCTTTTGTAGATCATATTAATAATGCAAACAAAATCATCTTTAAT
GGGCCAGCATTCTCATGGGGTAGAGCAGAATATTCATTTAGCCTGAAAGCTGCAGTTACT
ATAGGTTGCTGTCAGACTATACCCATGGTGCCTCTGGGCTTGACAGGTCAAAATGGTCCC
CATCAGCCTGGAGCAGCCCTCCAGACCTGGGTGGAATTCAGGGTTGAGAGACTCCCTG
AGCCAGAGGCCACTAGGTATTCTTGTCTCCAGAGGCTGAAGTACCCTGGGAATCACAGT
GGTCTACCTGCATTCATAATCCAGGATCTGTGAAGAGCACATATGTGTCAGGGCACAAT
TCCTCTCATAAAAACACACAGCCTGGAATTTGGCCCTGGCCCTTCAAGATAGCCTTCT
TTAGAATATGATTTGGCTAGAAAGATTCTTAAATATGTGGAATATGATTATTTAGCTG
GAATATTTTCTCTACTTCTGTCTGCATGCCCAAGGCTTCTGAAGCAGCCAATGTCGATG
CAACAACATTTGTAACCTTAGGTAACCTGGGATATGTTGTAGTTTAACTTTTGAACCT
GTGTGCTTATAGTTTACAAGTGAGACCCGATATGTCATTATGCATACTTATATTTATCTTA
AGCATGTGTAATGCTGGATGTGTACAGTACAGTACTGAACTTGTAAATTTGAATCTAGTAT
GGTGTCTGTTTTAGCTGACTTGGACAACCTGACTGGCTTTGCACAGGTGTTCCCTGAG
TTGTTTGCAGGTTTCTGTGTGTGGGTGGGTATGGGGAGGAGAACCCTTATGGTGGCCC
ACCTGGCCTGGTTGTCCAAGCTGTGCCTCGACACATCCTCATCCCAGCATGGGACACCT
CAAGATGAATAATAATTCACAAAATTTCTGTGAAATCAAATCCAGTTTTAAGAGGAGCCA
CTTATCAAAGAGATTTTAAACAGTAGTAAGAAGGCAAAGAATAAACATTTGATATTCAGCA
ACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012092 unedited ATNCACTATTAGGGCGGCCCGGNATATCATATCTGGTACCGGTCCCGGAATCCCGGGA TCTGAACGCGAGGACTGTTAACTGTTTCCGGCAAACACGAAGCCAGGCCCTCTGGTATTT CTCTTCTCTCTGCTTGCGCATTAAAGTCTTAACAGGAGAAACCAAGGTTCCGCCAACA CGAGATGTTTATATCCCAACGGAGGTGTACAAACCTTATGCAAATATCCTGACATTGT CCAGCAATCTAAAAGGCAGTTGCCGAAAGGGGGCAAAAACCTGCGGTCCCACCAAGAC CAAAGGGAAGTGGAAACACAGTGTCCATTAAGAAGTCTGAAATTCTGCCATTCTCAGTT ATCCAACAACAGTGTCTTTTTTTCTATACAACCTGGACCATTCTCATGCCAACTATTA CTTCTGCAACCTATCAATTTTTGATCCTCCTCTTTTAAAGTAACTCTTACAGGAGGATA TTTGCATATTTATGAATCACAACCTTTGTTGCCAGCTGAAGTTCTGGTTACCCATAGGATG TGCAGCCTTTGTTGAGTCTGCATTTTGGGATGCATACTATTTGTTGGCTTACAAAAA GATGTGACCTATAATATGGAACCTGGCACCCAGGCATGAAGCACGTTGGCCAGTTTTTC CTCAACTGAAGTCAAGATTCTTATTTCCGGGACCACGGAGAGTCTGACTTAACTAC ATACATCTTCTGCTGGTGTGTTTCAATCTGGAAGAATGACTGTATCAGTCAATGGGGA TTTTAACAGACTGCCTTGGTACTGCCGAGTCTCTCAAACANACACCCTCTTGNACCAG CTTTGGAGAAACCCAGCTCCTGTGTGCTCACTGGGAGTT
Restriction Sites:	Please inquire
ACCN:	NM_012092
Insert Size:	2580 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_012092.2</u> , <u>NP_036224.1</u>
RefSeq Size:	2620 bp
RefSeq ORF:	600 bp
Locus ID:	29851
UniProt ID:	<u>Q9Y6W8</u>
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]