

Product datasheet for **SC306938**

IL1RA (IL1RN) (NM_173841) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL1RA (IL1RN) (NM_173841) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL1RA
Synonyms:	DIRA; ICIL-1RA; IL-1ra; IL-1ra3; IL-1RN; IL1F3; IL1RA; IRAP; MVCD4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_173841 edited
 GAAGACCTCTGTCTATCAGGCCCTCCCATGGCTTTAGCTGACTTGTATGAAGAAGGA
 GGTGGAGGAGGAGGAGAAGGTGAAGACAATGCTGACTCAAAGGAGACGATCTGCCGACCC
 TCTGGGAGAAAATCCAGCAAGATGCAAGCCTTCAGAATCTGGGATGTTAACCAGAAGACC
 TTCTATCTGAGGAACAACCACTAGTTGCCGGATACTTGAAGGACCAAAATGTCAATTTA
 GAAGAAAAGATAGATGTGGTACCCATTGAGCCTCATGCTCTGTTCTTGGGAATCCATGGA
 GGAAGATGTGCCTGTCTGTCAAGTCTGGTATGAGACCAGACTCCAGCTGGAGGCA
 GTTAACATCACTGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGC
 TCAGACAGTGGCCCCACCACAGTTTTGAGTCTGCCGCCTGCCCGGTTGGTTCCTCTGC
 ACAGCGATGGAAGCTGACCAGCCGTCAGCCTACCAATATGCCTGACGAAGGCGTCATG
 GTCACCAAATTTACTTCCAGGAGGACGAGTAGTACTGCCAGGCCTGCCTGTTCCCAT
 CTTGCATGGCAAGGACTGCAGGGACTGCCAGTCCCCTGCCCCAGGGCTCCCGGCTATGG
 GGGCACTGAGGACCAGCCATTGAGGGGTGGACCCTCAGAAGGCGTCACAACAACCTGGTC
 ACAGGACTCTGCCTCCTTCAACTGACCAGCCTCCATGCTGCCTCCAGAATGGTCTTTC
 TAATGTGTGAATCAGAGCACAGCAGCCCTGCACAAAGCCCTTCATGTGCCTCTGCAT
 TCAGGATCAAACCCCGACCACCTGCCAACCTGCTCTCCTTGGCACTGCCTCTTCCTC
 CCTCATCCACCTTCCATGCCCTGGATCCATCAGGCCACTTGATGACCCCAACCAAGT
 GGCTCCACACCTGTTTTACAAAAAGAAAAGACCAGTCCATGAGGGAGGTTTTAAGG
 GTTTGTGGAAAATGAAAATTAGGATTTTCATGATTTTTTTTTTTCAGTCCCGTGAAGGAG
 AGCCCTTCATTTGGAGATTATGTTCTTTCGGGGAGAGGCTGAGGACTTAAAAATTCCTG
 CATTTGTGAAATGATGGTAAAGTAAGTGGTAGCTTTCCCTTCTTTTCTTCTTTTTTT
 GTGATGTCCCACTTGTAAAAATTAAGTATGTTACTATGTTAGCCCCATAATTTTTTT
 TTTTCTTTTAAAAACACTTCCATAATCTGGACTCCTCTGTCCAGGCACTGCTGCCAGCC
 TCCAAGCTCCATCTCCACTCCAGATTTTTTACAGCTGCCTGCAGTACTTTACCTCCTATC
 AGAAGTTTCTCAGCTCCCAAGGCTCTGAGCAAATGTGGCTCCTGGGGTTCTTTCTCTCT
 CTGCTGAAGGAATAAATTGCTCCTTGACATTGTAGAGCTTCTGGCACTTGGAGACTTGTA
 TGAAAGATGGCTGTGCCTCTGCCTGTCTCCCCACCAGGCTGGGAGCTCTGCAGAGCAGG
 AAACATGACTCGTATATGTCTCAGGTCCCTGCAGGGCCAAGCACCTAGCCTCGCTCTTGG
 CAGGTACTCAGCGAATGAATGCTGTATATGTTGGGTGCAAAGTTCCTACTTCTGTGAC
 TTCAGCTCTGTTTTACAATAAAATCTTGAAAATGCCTAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_173841 unedited
 NGTAACGTCTTGATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGAAG
 ACCTCTGTCTATCAGGCCCTCCCTGGCTTTAGCTGACTTGTATGAAGAAGGAGGTGG
 AGGAGGAGGAGAAGGTGAAGACAATGCTGACTCAAAGGAGACGATCTGCCGACCCCTGG
 GAGAAAATCCAGCAAGATGCAAGCCTTCAGAATCTGGGATGTTAACCAGAAGACCTTCTA
 TCTGAGGAACAACCACTAGTTGCCGGATACTTGAAGGACCAAAATGTCAATTTAGAAGA
 AAAGATAGATGTGGTACCCATTGAGCCTCATGCTCTGTTCTTGGGAATCCATGGAGGGAA
 GATGTGCCTGTCTGTCAAGTCTGGTATGAGACCAGACTCCAGCTGGAGGCAGTTAA
 CATCACTGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGA
 CAGTGGCCCCACCACAGTTTTGAGTCTGCCGCCTGCCCGGTTGGTTCCTCTGCACAGC
 GATGGAAGCTGACCAGCCGTCAGCCTACCAATATGCCTGACGAAGGCGTCATGGTCAC
 CAAATTTACTTCCAGGAGGACGAGTAGTACTGCCAGGCCTGCCTGTTCCCATTTCTTGC
 ATGGCAAGGACTGCANGGACTGCCAGTCCCCTGCCCCAGGGCTCCCGGCTATGGNGGCA
 CTNGAGACCCAGCCATTGAGGGGTGGGACCCTCAGAAGGCGTCACAACAACCTGGTCACA
 GGACTCTGCCTNCTTNCAGTGCAGCCTNCAATGCTGCCTNCAAGATGGGTCTTTCTA
 TGTGTGAATCAGAGCACAGCAGCCCTGCACAAAGCCCTTNCATGTCGC

Restriction Sites: Please inquire
ACCN: NM_173841

Insert Size:	1800 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	NM_173841.1 , NP_776213.1
RefSeq Size:	1865 bp
RefSeq ORF:	543 bp
Locus ID:	3557
UniProt ID:	P18510
Cytogenetics:	2q14.1
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary:

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses, particularly in the acute phase of infection and inflammation. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Aug 2020]

Transcript Variant: This variant (2) encodes the longest isoform (2).