

## Product datasheet for **SC101242**

### **IL1RA (IL1RN) (NM\_173843) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL1RA (IL1RN) (NM_173843) 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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101242 sequence for NM_173843 edited (data generated by NextGen Sequencing) ATGCAAGCCTTCAGAATCTGGGATGTTAACCAGAAGACCTTCTATCTGAGGAACAACCAA CTAGTTGCCGGATACTTGCAAGGACCAAATGTCAATTTAGAAGAAAAGATAGATGTGGTA CCCATTGAGCCTCATGCTCTGTTCTTGGGAATCCATGGAGGAAGATGTGCCTGTCCTGT GTCAAGTCTGGTATGAGACCAGACTCCAGCTGGAGGCAGTTAACATCACTGACCTGAGC GAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGACAGTGGCCCCACCACC AGTTTTGAGTCTGCCGCTGCCCGGTTGGTTCCTCTGCACAGCGATGGAAGCTGACCAG CCCGTCAGCCTCACCAATATGCCTGACGAAGCGTCATGGTCACCAAATTCTACTTCCAG GAGGACGAGTAG  Clone variation with respect to NM_173843.2 69 t=>c



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_173843 unedited NGTTAGTTTTTGTNNTNNTTTTTTTTAGGGTGGNNGNGGNTTTGGTNGNGGGGGTGTGTG TTTGTGTTGTTTGGGGGTGGCGTGGGTTTAGAGACGATCTGCCGACCCTCTGGGGAGAAA ATCCAGCAAGATGCAAGCCTTCAGAATCTGGGATGTTAACAGAAAGACCTTCTATCTGAG GAACAACCAACTAGTTGCCGGATACTTGCAAGGACCAATGTCAATTTAGAAGAAAAGAT AGATGTGGTACCCATTGAGCCTCATGCTCTGTTCTTGGGAATCCATGGAGGGAAGATGTG CCTGTCTGTGCAAGTCTGGTGATGAGACCAGACTCCAGCTGGAGGCAGTTAACATCAC TGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGACAGTGG CCCACCACCAAGTTTTGAGTCTGCCGCCTGCCCGGTTGGTTCCTCTGCACAGCGCTGGG AGCTGACCAGCCCGTCGGCCTACCAATATGCCTGACGAAAGCGTCTGGGTACCAAAAAT CTAGCTCCAGTAGGACCAGGTGTGCTGCCAGGCCCGGGCCGATCCCCTTCCTCGATGGG CAGGGACCGCAGGCACTGCACAGTCCCCCTGCCCGGGGCTCCCCGCCTTTGGCGCCCC CTGGCGCACACACCTTGAGGCGCCGGACCCCCACAAAGCGTCCGCGGCACCGGGGAAGC GGGGACGTGCCCTCCCCGGCGACGGACAGGCCGCCAGCTCGCCCCCCACAGGGACG TTAAGAGGGGGCACACTCGGAGCAACGAGGCCACGGGCAAGGCCTTTCCCCGTGCCC TCGGATATGAGTAGAACACGACCCGAGACACCATGGAACAAACTGGTACGACTCTTCTGA AACAGGGTTCATCCTCACCGATATTACAACCAACACCGGCGCCAGCAAACACCCG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_173843
<b>OTI Disclaimer:</b>	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).
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_173843.1</a> , <a href="#">NP_776215.1</a>
<b>RefSeq Size:</b>	1973 bp
<b>RefSeq ORF:</b>	432 bp
<b>Locus ID:</b>	3557
<b>UniProt ID:</b>	<a href="#">P18510</a>
<b>Cytogenetics:</b>	2q14.1
<b>Protein Families:</b>	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 (4) contains a distinct internal exon compared to variant 2. This results in translation from a downstream start codon, and an isoform (4) that has a shorter N-terminus, as compared to the longest isoform (2). Variants 4 and 5 both encode the same isoform (4).