

Product datasheet for **SC122224**

IL1 alpha (IL1A) (BC013142) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | IL1 alpha (IL1A) (BC013142) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | IL1 alpha |
| Synonyms: | hematopoietin-1; IL-1A; IL1; IL1-ALPHA; IL1A (IL1F1); IL1F1; interleukin 1, alpha; preinterleukin 1 alpha; pro-interleukin-1-alpha |
| 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 BC013142 edited
 GAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAACTGTTACAGTGAA
 AATGAAGAAGACAGTTTCCATTCATGATCATCTGTCTCTGAATCAGAAATCCTTCTATCAT
 GTAAGCTATGGCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTATCTCT
 GAAACCTCTAAAACATCCAAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAACCAAC
 GGGAAAGTTCTGAAGAAGAGACGGTTGAGTTTAAGCCAATCCATCACTGATGATGACCTG
 GAGGCCATCGCCAATGACTCAGAGGAAGAATCATCAAGCCTAGGTCAGCACCTTTTAGC
 TTCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCTGAAT
 GACGCCCTCAATCAAAGTATAATTTCAGCCAATGATCAGTACCTCACGGCTGCTGCATTA
 CATAATCTGGATGAAGCAGTGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGAT
 GCTAAAATTACCGTGATTCTAAGAATCTCAAAAACCTCAATTGTATGTGACTGCCAAGAT
 GAAGACCAACCAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACCATCACAGGTAGT
 GAGACCAACCTCCTCTTCTTCTGGGAAACTCACGGCACTAAGAACTATTTACATCAGTT
 GCCCATCAAACCTGTTTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGGG
 CCACCCTCTACTGACTTTTCAGATACTGAAAACCCAGGCGTAGGTCTGGAGTCTCACT
 TGCTCACTTGTGCAAGTGTGACAGTTCATATGTACCATGTACATGAAGAAGCTAAATCC
 TTTACTGTTAGTCATTTGCTGAGCATGACTGAGCCTTGAATTTCAAATGAATGTTTAC
 ACTCTTTGTAAGAGTGGAAACCAACTAACATATAATGTTGTTATTTAAAGAACCCTTA
 TATTTTGCATAGTACCAATCATTTTAAATTATTATTCTTCATAACAATTTTAGGAGGACCA
 GAGCTACTGACTATGGCTACCAAAAAGACTCTACCCATATTACAGATGGGCAAATTAAGG
 CATAAGAAAACCTAAGAAATATGCACAATAGCAGTTGAAACAAGAAGCCACAGACCTAGGA
 TTTTCATGATTTCACTTTCAACTGTTTGCCTTCTACTTTTAAAGTTGCTGATGAACCTTAAT
 CAAATAGCATAAGTTTCTGGGACCTCAGTTTTATCATTTTCAAATGGAGGGAATAATAC
 CTAAGCCTTCTGCCGCAACAGTTTTTTATGCTAATCAGGGAGGTCATTTTGGTAAAAATA
 CTTCTTGAAGCCGAGCCTCAAGATGAAGGCAAAGCACGAAATGTTATTTTTTAATTATTA
 TTTATATATGATTTTATAAATATATTTAAGATAATTATAATATACTATATTTATGGGAAC
 CCCTTCATCCTCTGAGTGTGACCAGGCATCCTCCACAATAGCAGACAGTGTCTTCTGGGA
 TAAGTAAGTTTGATTTTCAATTAATACAGGGCATTGTTGGTCCAAGTTGTGCTTATCCATAG
 CCAGGAAACTCTGCATTCTAGTACTTGGGAGACCTGTAATCATATAATAAATGTACATTA
 ATTACCTTGAGCCAGTAATGGTCCGATCTTTGACTCTTTTGCATTAACCTTACCTGGG
 CATTCTTGTTTCAATTCACCTGCAATCAAGTCTACAAGCTAAAATTAGATGAACCTCAA
 CTTTGACAACCATGAGACCACTGTTATCAAACCTTTCTTTCTGGAATGTAATCAATGTT
 TCTTCTAGGTTCTAAAATTGTGATCAGACCATAATGTTACATTATTATCAACAATAGT
 ATTGATAGAGTGTATCAGTCATAACTAAATAAAGCTTGCAACAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC013142 unedited
 CGCGTTCCGATTGTATACGACTCATATAGGCGGCCGCGCATTCAAATCTGGTACCGGT
 CGGAATCCCAGGATATCGTCGACCCACGCGTCCGGTCATTTTATTGGCGTTTGGTACG
 CAAAGAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAACTGTTACAG
 TGAATAAGTGAAGAAGACAGTTCTCCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTA
 TCATGTAAGCTATGGCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTAT
 CTCTGAAACCTCTAAAACATCCAAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAAC
 CAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTAAGCCAATCCATCACTGATGATGA
 CCTGGAGGCCATCGCCAATGACTCAGAGGAAGAATCATCAAGCCTAGGTCAGCACCTTT
 TAGCTTCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCT
 GAATGACGCCCTCCATCAAAGTATAATTCGAGCCAATGATCAGTACCTCACGGCTGCTGC
 ATTACATAATCTGGATGAAGCAGTGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGA
 TGATGCTAAAATTACCGTGATTCTAAGAATCTCAAAAACCTCAATTGTATGTGACTGCCCC
 AGATGAAGACCAACCAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACCTCACAAAGT
 AGTGGAGACCAACCTTCTTCTTCTTCTGGGAAACTCACGGCACTAAAACCTATTACATCC
 GTTGCCCATCCCAAATGGTTAATTGCCACAACGCCAAGACTACTTGGGTGGGCTTTGA

Restriction Sites: Please inquire

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| ACCN: | BC013142 |
| Insert Size: | 2000 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). |
| OTI Annotation: | no |
| 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: | BC013142.2 , AAH13142.1 |
| RefSeq Size: | 1978 bp |
| Locus ID: | 3552 |
| Cytogenetics: | 2q14.1 |
| Protein Families: | Druggable Genome, Secreted Protein |
| Protein Pathways: | Apoptosis, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Hematopoietic cell lineage, MAPK signaling pathway, Prion diseases, Type I diabetes mellitus |
| Gene Summary: | The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008] |