

Product datasheet for **SC122435**

TSLP (BC016720) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSLP (BC016720) Human Untagged Clone
Tag: Tag Free
Symbol: TSLP
Synonyms: thymic stromal lymphopoietin
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_138551 edited
GGGGACTCTCGACTTGTGTTCCCGCTCCTCCCTGACCTTCCCTCCCTCCCTTTCACT
CAATTCTACCAACTCTTCTCTCTCTGTTTCTCCTTTTCTCGTAACTTTGCCGC
CTATGAGCAGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTTCAATCCCACCGCCG
CTGCGCGTCTGCTCGCAAAGAAATGTTCCGCGTAAAGGCTGCCTTAGCTATCTG
GTGCCAGGCTATTCGAAACTCAGATAAATGCTACTCAGGCAATGAAGAAGAGGAGAAA
AAGGAAAGTCACAACCAATAAATGTCTGGAACAAGTGCACAATTACAAGGATTGTGGCG
TCGCTTCAATCGACCTTACTGAAACAACAGTAAACCTCTTTATTATGGTCATATTTCA
CAGCACAAAATAAATCATCTTTAATTAAGTAGATGAAACATTAACCTAACTGTGACAAA
GAAGACCACAAAAGTTATCTTTAATTACAGAAGAGTTTCTTAACCTACTTTTGTAAAGT
TTTTATTGTGTAAGTTTATAATGCAGGGGAAGTACTACTCCTCAAATGTTGAGGGAAGCT
TCCATAACATTGATGACTGGCTTCATGGCAGTAATTCTCGGCTGTAGTTGCATAAGCATT
GCTCAAGAGGAAAATCCAAAAGTGCAGCAGGAGAACTTTTTCCCTGAAAAGGAAAAAT
ATTGAACTCAATGATAGCACCTAACTTACATTTAAAAGACAGACATTCCTTCTACATGT
AATGACTTCTTGTGTTAACTAAAAATTTACAAGAGAAGAAAGTAAAAGCAATGGGG
TTTCACAAATAGTTGAAATATAGTGAAGCAATTTGAAATAATTTCAAGCAAAGTATTG
TGAAAGTATTCTAAGCCAAGTTTAAATATTATCTAACAGACAAGAGTGGTATATACAAG
TAGATCCTGAGAAGTACCTTTGTTACAGCTACTATAAATATACATATAAATTATAGAATC
TACTTTAATTTATTTGTGAACACTTTTGAAAAATGTACATGTTCCCTTTGTAATTGACACT
ATATATTTCTTAATAAAAATAATTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC016720 unedited GGGGGTTAGGATTTGTNATACGACTTCACTATAGGGCGGCCGGAATTCGCCATTACGGC CGGGGACTCTCGACTTGTGTTCCCGCTCCTCCCTGACCTTCTCCCTCCCCTTTTAC TCAATTCTACCAACTCTTCTCTCTCTGGTGTCTTCTCTTTCTCGTAAACTTTGCCG CCTATGAGCAGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTTCAATCCCACCGCCG GCTGCGCGTCGCTCGCCAAAGAAATGTTGCGCATGAAAATAAGGCTGCCTTAGCTATCT GGTGCCAGGCTATTCGAAACTCAGATAAATGCTACTCAGGCAATGAAGAAGAGGAGAA AAAGGAAAGTCACAACCAATAAATGTCTGGAACAAGTGTACAATTACAAGGATTGTGGC GTCGCTTCAATCGACCTTTACTGAAACAACAGTAAACCATCTTTATTATGGTCATATTTT ACAGCACCAAAATAAATCATCTTTATTAAGTAGATGAAACATTAECTAACTGTGACAA AGAAGACCACAAATAGTTATCTTTAATTACAGAAGAGTTTCTTAECTTACTTTTGTAA TTTTTATTGTGAAGTTATAATGCAGGGGAAGTACTACTCCTCNANATGTGAGGGAAGC TTCCCATACATTGATGACTGGCTTCATGGCAGTAATTCTCGGCTGTAGTGCATAAGCAT TGCTCAAGAGGAAAATCCAANAGTGCAGCAGNGAGACCTTTTTTCCCTGAAAAGGGNAA AATATTGNAGCTCATGATAGCACCTAACTTACATTNTAAGAAGACATTCCTCTACATG TAATGACACTTTCTGGGTAAACTAAAAATTACAAGAAAGAAAGTGAAGCCAATGGGGTT CACCAATGTTT
Restriction Sites:	Please inquire
ACCN:	BC016720
Insert Size:	1100 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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>BC016720.1</u> , <u>AAH16720.1</u>
RefSeq Size:	1135 bp
Locus ID:	85480
Cytogenetics:	5q22.1
Protein Families:	Druggable Genome
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Gene Summary:

This gene encodes a hemopoietic cytokine proposed to signal through a heterodimeric receptor complex composed of the thymic stromal lymphopoietin receptor and the IL-7R alpha chain. It mainly impacts myeloid cells and induces the release of T cell-attracting chemokines from monocytes and enhances the maturation of CD11c(+) dendritic cells. The protein promotes T helper type 2 (TH2) cell responses that are associated with immunity in various inflammatory diseases, including asthma, allergic inflammation and chronic obstructive pulmonary disease. The protein is therefore considered a potential therapeutic target for the treatment of such diseases. In addition, the shorter (predominant) isoform is an antimicrobial protein, displaying antibacterial and antifungal activity against *B. cereus*, *E. coli*, *E. faecalis*, *S. mitis*, *S. epidermidis*, and *C. albicans*. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2020]