

Product datasheet for **SC327722**

TSLP (NM_138551) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSLP (NM_138551) Human Untagged Clone
Tag: Tag Free
Symbol: TSLP
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >OriGene sequence for NM_138551 edited

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GGGGGACTCTCGACTTGTGTTCCCCGCTCCTCCCTGACCTTCCCTCCCCTCCCCTTCACT
CAATTCTACCAACTCTTCTCTCTCTGGTGTGTTTCTCCTTTTCTCGTAACTTTGCCCG
CTATGAGCAGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTTCAATCCCACCGCCGG
CTGCGCGTCGCTCGCAAAGAAATGTTCCGCATGAAAACCTAAGGCTGCCTTAGCTATCTG
GTGCCCAGGCTATTTCGAAAACCTCAGATAAATGCTACTCAGGCAATGAAGAAGAGGAGAAA
AAGGAAAGTCACAACCAATAAATGTCTGGAACAAGTGTCACAATTACAAGGATTGTGGCG
TCGCTTCAATCGACCTTACTGAAACAACAGTAAACCATCTTTATTATGGTCATATTTCA
CAGCACCAAAAATAATCATCTTTAATTAAGTAGATGAAACATTAACCTAACTGTGACAAA
GAAGACCACAAAATAGTTATCTTTAATTACAGAAGAGTTTCTTAACTTACTTTTGTAAAGT
TTTTATTGTGTAAGTTTATAATGCAGGGGAAGTACTACTCCTCAATGTTGAGGGAAGCT
TCCATAACATTGATGACTGGCTTCATGGCAGTAATTCTCGGCTGTAGTTGCATAAGCATT
GCTCAAGAGGAAAATCCAAAAGTGCAGCAGGAGAACTTTTTCCCTGAAAAGGAAAAAT
ATTGAACTCAATGATAGCACCTAAACTTACATTTAAAAGACAGACATTCTTCTACATGT
AATGACACTTCTTGTGTTAACTAAAAATTTACAAGAGAAGAAAGTAAAAGCAAATGGGG
TTTCACAAATAGTTGTAATATAGTGAAGCAATTTGAAATAATTTTCAAGCAAAGTATTG
TGAAAGTATTCTAAGCCAAGTTTTAAATATTATCTAACAGACAAGAGTGGTATATACAAG
TAGATCCTGAGAAGTACCTTTGTTACAGCTACTATAAATATACATATAAATTATAGAATC
TACTTTAATTTATTTGTGAACACTTTTGAAAAATGTACATGTTCTTTGTAAATTGACACT
ATATATTTCTTAATAAATAATTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire
ACCN: NM_138551
Insert Size: 2411 bp



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OTI Disclaimer: 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.

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](#)

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:

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_138551.3](#), [NP_612561.2](#)

RefSeq Size: 2411 bp

RefSeq ORF: 192 bp

Locus ID: 85480

UniProt ID: [Q969D9](#)

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]

Transcript Variant: This variant (2, also known as sFTSLP) lacks two 5' exons but contains an alternate 5' exon, differs in the 5' UTR, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1. This is the predominant isoform, and it exhibits a much stronger antimicrobial activity compared to the longer isoform lFTSLP (PMID:24850429).