

## Product datasheet for **RG214101**

### TSLP (NM\_033035) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSLP (NM\_033035) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TSLP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG214101 representing NM\_033035  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCCCTTTTGCCTTACTATATGTTCTGTCTCAGTTTCTTTCAGGAAAATCTTCATCTTACAACCTGTAG  
 GGCTGGTGTAACTTACGACTTCACTAACTGTGACTTTGAGAAGATTAAGCAGCCTATCTCAGTACTAT  
 TTCTAAAGACCTGATTACATATATGAGTGGGACCAAAAGTACCGAGTTCAACAACACCGTCTCTTGTAGC  
 AATCGGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTTCAATCCCACCGCCGGCTGCGCGTCTGCTCG  
 CCAAAGAAATGTTCCCATGAAAATAAGGCTGCCTTAGCTATCTGGTCCCAGGCTATTCGAAACTCA  
 GATAAATGCTACTCAGGCAATGAAGAAGAGGAGAAAAAGGAAAGTCAACAACCAATAAATGTCTGGAACAA  
 GTGTCACAATTACAAGGATTGTGGCGTCTTCAATCGACCTTTACTGAAACAACAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG214101 representing NM\_033035  
 Red=Cloning site Green=Tags(s)

MFPFALLYVLSVSFRKIFILQLVGLVLYDFTNCFEIKIAYLSTISKDLITYMSGTKSTEFNNTVSCS  
 NRPCHLTEIQSLTFNPTAGCASLAKEMFAMKTKAALAIWCPGYSETQINATQAMKRRKRKVTNNKCLEQ  
 VSQQLQLWRRFNRPLLKQQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_033035

**ORF Size:** 477 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_033035.5](#)

**RefSeq Size:** 2652 bp

**RefSeq ORF:** 480 bp

**Locus ID:** 85480

UniProt ID: [Q969D9](#)

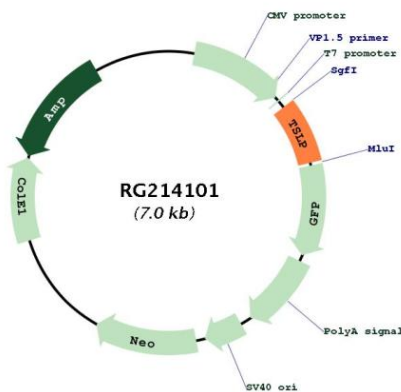
Cytogenetics: 5q22.1

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]

**Product images:**



Circular map for RG214101