

Product datasheet for **SC122789**

NNT1 (CLCF1) (NM_013246) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NNT1 (CLCF1) (NM_013246) Human Untagged Clone
Tag:	Tag Free
Symbol:	NNT1
Synonyms:	BSF-3; BSF3; CISS2; CLC; NNT-1; NNT1; NR6
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 NM_013246 edited
 GCCGCGGCTCGCCCTCCCACTCCGCCAGCCTCCGGGAGAGGAGCCGCACCCGGCCGGCC
 GGCCCCAGCCCCATGGACCTCCGAGCAGGGGACTCGTGGGGGATGTTAGCGTGCCTGTGC
 ACGGTGCTCTGGCACCTCCCTGCAGTGCCAGCTCTCAATCGCACAGGGGACCCAGGGCCT
 GGCCCCCTCATCCAGAAAACCTATGACCTCACCCGCTACCTGGAGCACCACCTCCGCAGC
 TTGGCTGGGACCTATCTGAACTACCTGGCCCCCCTTTCAACGAGCCAGACTTCAACCT
 CCCCCTGGGGCAGAGACTCTGCCAGGGCCACTGTTGACTTGGAGGTGTGGCAAGC
 CTAATGACAAACTGCGGCTGACCCAGAACTACGAGGCCTACAGCCACCTTCTGTGTTAC
 TTGCGTGGCCTCAACCGTCAGGCTGCCACTGCTGAGCTGCGCCGAGCCTGGCCACTTC
 TGCACCAGCCTCCAGGGCCTGCTGGGCAGCATTGCGGGCGTCATGGCAGCTCTGGGCTAC
 CCACTGCCCCAGCCGCTGCCTGGGACTGAACCCACTTGGACTCCTGGCCCTGCCACAGT
 GACTTCTCCAGAAGATGGACGACTTCTGGCTGCTGAAGGAGCTGCAGACCTGGCTGTGG
 CGCTCGGCCAAGGACTTCAACCCGCTCAAGAAGAAGATGCAGCCTCCAGCAGCTGCAGTC
 ACCCTGCACCTGGGGCTCATGGCTTCTGACTTCTGACCTTCTCCTTCTCGCTCCCCTT
 CAAACCCTGCTCCCACTTTGTGAGAGCCAGCCCTGTATGCCAACACCTGTTGAGCCAGGA
 GACAGAAGCTGTGAGCCTCTGGCCCTTCTGAGCCGGCTGGGCGTGTGATGCGATCAGC
 CCTGTCTCCTCCCACTCCCAAAGGTCTACCGAGCTGGGGAGGAGGTACAGTAGGCCCT
 GTCCTGTCTGTTTCTACAGGAAGTCATGCTCGAGGGAGTGTGAAGTGGTTACAGTTGGT
 GCAGAGGCGCTCATGGCCTCCTGCTTCTTGCCCTACCACTTGGCCAGTGCCACCCAGCCC
 CTCAGGTGGCACATCTGGAGGGCAGGGGTTGAGGGGCCACCACCACACATGCCTTTCTGG
 GGTGAAGCCCTTTGGCTGCCCACTCTCCTTGGATGGGTGTTGCTCCCTATCCCCAAAT
 CACTCTATACATCCAATTCAGGAAACAAACATGGTGGCAATTCTACACAAAAAGAGATGA
 GATTAACAGTGCAGGGTTGGGGTCTGCATTGGAGGTGCCCTATAAACGAGAGAAAAAT
 ACTGAAAAGCACAGGGGCAGGGACAGACCAGACCAGACCAGGAGTCTCCAAAGCACAGAG
 TGGCAAACAAAACCCGAGCTGAGCATCAGGACCTTGCCTCGAATTGTCTTCCAGTATTAC
 GGTGCCTCTTCTGCCCCCTTCCAGGGTATCTGTGGGTTGCCAGGCTGGGGAGGGCA
 ACCATAGCCACACCACAGGATTTCTGAAAGTTTACAATGCAGTAGCATTTTGGGGTGTA
 GGGTGGCAGCTCCCAAGGCCCTGCCCCAGCCCCACCACTCATGACTCTAAGTGTGT
 TGTATTAATATTTATTTATTTGGAGATGTTATTTATTAGATGATATTTATTCAGAAATTT
 CTATTCTGTATTAACAAATAAAATGCTTGCCCCAGAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_013246 unedited
 NGAGCTTGGCATTGTAAACGACTTCCCTATAGGGCGGCCGCGACTTCCCGGGTATCGT
 CGACCCACGCGTCCGGCCGCGGCTCGCCCTCCCACTCCGCCAGCCTCCGGGAGAGGAGCC
 GCACCCGGCCGGCCCGCCAGCCCCATGGACCTCCGAGCAGGGGACTCGTGGGGGATG
 TTAGCGTGCCTGTGCACGGTCTCTGGCACCTCCCTGCAGTGCCAGCTCTCAATCGCACA
 GGGGACCCAGGGCCTGGCCCTCCATCCAGAAAACCTATGACCTCACCCGCTACCTGGAG
 CACCAACTCCGCAGCTTGGCTGGGACCTATCTGAACTACCTGGCCCCCTTTCAACGAG
 CCAGACTTCAACCCTCCCGCCTGGGGCAGAGACTCTGCCAGGGCCACTGTTGACTTG
 GAGGTGTGGCGAAGCCTCAATGACAAACTGCGGCTGACCCAGATCTACGAGGCCTACAGC
 CACCTTCTGTGTTACTTGCCTGGCCTCAACCGTCAGGCTGCCACTGCTGAGCTGCGCCGC
 AGCCTGGCCACGGCTGCACCAGCCTCCAGGGCCTGCTGGGCAGCATTGCGGGCCTCATG
 GCAGCTCTGGGCTAACCACTGCCCCAGCCGCTGCCTGGGACTGAACCCACTTGGACTCCT
 GGCCCTGCCACAGTACTTCCCTCCAAAAGATGGACAACCTNCTGGCTGCTAGAGGGAGC
 TGCAAGACCTGGCCTGTGGGCGCTCGGGCAAGGGATTTACCCGCTCAAGAAAGAATA
 TTCAGNCCTCCAACAGCTGGAGGTACCCTGTGCCCTGGGGCCTAAGGGTTTCTGACTTC
 TGAACCTTTCTTTTTGCTCCCCCTTAAACCCCTGGTCCCCTTTTGGAGAAACCACCC
 CTGGTTGGCAACCCTGTTGGAN

Restriction Sites: Please inquire
ACCN: NM_013246

Insert Size:	1736 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).
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>NM_013246.2</u> , <u>NP_037378.1</u>
RefSeq Size:	1860 bp
RefSeq ORF:	678 bp
Locus ID:	23529
UniProt ID:	<u>Q9UBD9</u>
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
Gene Summary:	<p>This gene is a member of the glycoprotein (gp)130 cytokine family and encodes cardiotrophin-like cytokine factor 1 (CLCF1). CLCF1 forms a heterodimer complex with cytokine receptor-like factor 1 (CRLF1). This dimer competes with ciliary neurotrophic factor (CNTF) for binding to the ciliary neurotrophic factor receptor (CNTFR) complex, and activates the Jak-STAT signaling cascade. CLCF1 can be actively secreted from cells by forming a complex with soluble type I CRLF1 or soluble CNTFR. CLCF1 is a potent neurotrophic factor, B-cell stimulatory agent and neuroendocrine modulator of pituitary corticotroph function. Defects in CLCF1 cause cold-induced sweating syndrome 2 (CISS2). This syndrome is characterized by a profuse sweating after exposure to cold as well as congenital physical abnormalities of the head and spine. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Though this isoform has a predicted signal peptide at amino acids 1-27, experiments show it is retained within the cell.</p>