

Product datasheet for **SC124644**

NTAL (LAT2) (NM_032463) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NTAL (LAT2) (NM_032463) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAT2
Synonyms:	HSPC046; LAB; NTAL; WBSCR5; WBSCR15; WSCR5
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032463, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTCGGGGACTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGCTGTTGGGGGTGGCAGCCAGTC
TGTGTGTGCGCTGCTCACGCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGA
GGACCAACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCG
GACATGGCACCCACAAGGAAGGACAAGCTGTTGCAATTCTACCCAGCCTGGAGGATCCAGCATCTTCCA
GGTACCAGAACTTCAGCAAAGGAAGCAGACACGGGTCGGAGGAAGCCTACATAGACCCCATTGCCATGGA
GTATTACAACTGGGGGCGGTTCTCGAAGCCCCAGAAGATGATGATGCCAATTCTACGAGAATGTGCTC
ATTTGCAAGCAGAAAACACAGAGACAGGTGCCAGCAGGAGGGCATAGGTGGCCTCTGCAGAGGGGACC
TCAGCCTGTCACTGGCCCTGAAGACTGGCCCACTTCTGGTCTCTGTCCCTCTGCCTCCCCGGAAGAAGA
TGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGGAGTCCAGGAAGGTGATGGGG
CAACTCCAGAGAGAAGCATCCCCGGCCCGTGGGAAGCCAGACGAGGAGGACGGGAACCCGATTACG
TGAATGGGGAGGTGGCAGCCACAGAAGCCTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032463 unedited
 GTCACATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGTAACCAGGNAGC
 CAACATGAGCTCGGGGACTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGCTGTTGGG
 GGTGGCAGCCAGTCTGTGTGTGCGCTGCTACGCCCAGGTGCAAAGAGGTGAGAGAAAAT
 CTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGTCCCGGACCTACTC
 CTTGTTGGGCAGGCATGGCCAGGACCCCTGGCCGACATGGCACCACAAGGAAGGACAA
 GCTGTTGCAATTCTACCCAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAATTTCAG
 CAAAGGAAGCAGACACGGGTCGGAGGAAGCCTACATAGACCCCATGCCATGGAGTATTA
 CAACTGGGGCGGTTCTCGAAGCCCCAGAAAGATGATGATGCCAATTCCTACGAGAATGT
 GCTCATTTGCAAGCAGAAAACCACAGAGACAGGTGCCAGCAGGAGGGCATTAGGTGGCCT
 CTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCACTTCTGGTCTCTG
 TCCCTCTGCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAAGTCCAGTCCAT
 CCATCAGTGGCGGAGTCCAGGAAGGTCATGGNGCACTCCAGAGAGAAGCATCCCCTGG
 CCCGGTGGGAAGCCAGACGAGGAGGACGGNGAACCNGGATACGTTGATGGGAGGTTGC
 AGNCACAAAGCCTAGGGCAGACCAAGAAGAAAGGCCAAGGCAAAGAGTACCACTGGGCT
 CATGGACCCATCGCTGNCTTTCAAGGACATNTNCCANNACTACTCACTTTAATNCCCTG
 CCATGGTTGCTCCTTGAAGGAGAACCANCCACCCTGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032463 unedited
 TTA AAAAATCCTTTTTTTTTTTTGCTTTTCAACTAAAAGGTTTTATTGAGATGTTTTGGTTG
 GAGGAGATACTTTTTCTGGCAACATTTCTGACTCAAGGTCCTCTGGGCCCCAGCTCTTC
 CCATGAGACAGTCACAACACTGTTAATCAGCTCTGCAGAGGCCAGCCCTGGAGCAGAGG
 ATGATTACAGGGCCATGGAGGGGACCTACTCTGCCCTGTTCTGGTCACTACTTCTCTAGAC
 TCTCATGCACTATTGTCTGTAGCAAGTGACATTTCCACTGGAAGCACATAAAGATGGCGA
 CAGCCTCATTCTTCTGAGTGAAGTGAAGCCAAAGAAAGGGGAGGTCCACCAAGGG
 GAAGAGAGCCAGGGCCCCACCAACAAGGATGCTGAAATAAACTACATGTAATGCTTTCT
 AGGAGACAACACAGAAATCTCTACTCTGAAATCCAGAATGTTAAATATGGCTCCCCCTCT
 ATAAGTTAACTGTACAAGCTTATCAATCATTTAAACCCAGCAACCAATAAGCAATT
 AGGAATCCAAATTCATAGCACANAAGAACACAGATACCAGTGTGGACAGTGGTTTTGTT
 ATGGGGACTGGGTGACAGCTTATCCTANATCCTGCGCATCCGTCACATACCAGGAGCCGGG
 TTACCCCTGGTACCAGGTGCCTGCCCAACAAGCCTGAGTCGGGAGAGGCTTGGTGGACG
 GCCTGCAGCTCCCGTGAGTAAGTGTCTTTCCAGCTGTGCACGCATGGCCAGNTGGTC
 CTCAGGNTGGCTGGTTCTCCTTCCAGGAGCACCCCTGGCAAGGGATTAAAAGTTGAGTAGC
 TTCTGGAA

Restriction Sites:

NotI-NotI

ACCN:

NM_032463

Insert Size:

1750 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:

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_032463.1](#), [NP_115852.1](#)

RefSeq Size: 2129 bp

RefSeq ORF: 732 bp

Locus ID: 7462

UniProt ID: [Q9GZY6](#)

Cytogenetics: 7q11.23

Protein Families: Transmembrane

Gene Summary: This gene is one of the contiguous genes at 7q11.23 commonly deleted in Williams syndrome, a multisystem developmental disorder. This gene consists of at least 14 exons, and its alternative splicing generates 3 transcript variants, all encoding the same protein. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein. CCDS Note: The coding region has been updated to represent an alternate splice pattern, resulting in an alternate and longer C-terminus that is better supported by available transcript and conservation data.