

Product datasheet for **SC319318**

NTAL (LAT2) (NM_014146) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NTAL (LAT2) (NM_014146) Human Untagged Clone
Tag:	Tag Free
Symbol:	NTAL
Synonyms:	HSPC046; LAB; NTAL; WBSCR5; WBSCR15; WSCR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014146.3
 CTCAGCATCACAAGAGGCAACACCAGGAGCCAACATGAGCTCGGGGACTGAACTGCTGTG
 GCCCGGAGCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTC
 ACGCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCA
 ACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCTT
 GGCGGACATGGCACCCACAAGGAAGGACAAGCTGTTGCAATTCTACCCAGCCTGGAGGA
 TCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCAGACACGGGTCCGAGGAAGC
 CTACATAGACCCCATGGCATGGAGTATTACAACCTGGGGGCGGTTCTCGAAGCCCCCAGA
 AGATGATGATGCCAATTCCTACGAGAATGTGCTCATTTGCAAGCAGAAAACCACAGAGAC
 AGGTGCCAGCAGGAGGGCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCCTGGC
 CCTGAAGACTGGCCCACTTCTGGTCTCTGTCCCTCTGCCTCCCCGGAAGAAGATGAGGA
 ATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGGAGTCCAGGAAGTTCAT
 GGGGCACTCCAGAGAGAAGCATCCCCTGGCCCGTGGGAAGCCAGACGAGGAGGACGG
 GGAACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAG
 AAAGGAGCCAAGGCAAAGAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGA
 CCATTTCCAGAGCTACTCAACTTTTAAGCCCCTGCCATGGTTGCTCCTGGAAGGAGAAC
 CAGCCACCTGAGGACCCTGGCCATGCGTGCACAGCCTGGGAAAAGACAGTACTCAC
 GGGAGTGCAGGCCCGTCAACAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCT
 GGTACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGT
 CACCCAGTCCCCATAACAAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTAT
 GAATTTGGATTCTAATTGCTATTGTTGGTTGCTGGGGTTTTAAATGATTGATAAGCTTG
 TACAGTTAACTTATAGAGGGGGAGCCATATTTAACATTCTGGATTCAGAGTAGAGATTT
 CTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTTCAGCATCCTTGTGGGTGGGG
 CCCTGGCTCTCTCCCTTTGGTGGGACCTCCCTTTCTTTGGGCTTCAGTTCACCTCAGG
 AAGAAATGAGGCTGTCGCCATCTTTATGTGCTTCCAGTGGAATGTCACTTGCTACAGAC
 AATAGTGCATGAGAGTCTAGAGAAGTAGTGACCAGAACAGGGCAGAGTAGGTCCCCTCCA
 TGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGATTAACAGTGTG
 TGACTGTCTCATGGGAAGAGCTGGGGCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGA
 AAAAGTATCTCCTCAACCAAAAACATCTCAATAAAACCATTTTAGTTGAAAAAAAAAAAA
 AAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_014146
- 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:

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_014146.3](#), [NP_054865.2](#)

RefSeq Size: 2010 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 (3) 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.