

Product datasheet for **RG200102**

NTAL (LAT2) (NM_032463) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NTAL (LAT2) (NM_032463) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NTAL
Synonyms:	HSPC046; LAB; NTAL; WBSCR5; WBSCR15; WSCR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200102 representing NM_032463 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCGGGGACTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGTGTTGGGGTGGCAGCCAGTC
TGTGTGTGCGTCTCACGCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGA
GGACCAACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCG
GACATGGCACCCACAAGGAAGGACAAGCTGTTGCAATTCTACCCAGCCTGGAGGATCCAGCATCTCCA
GGTACCAGAACTCAGCAAAGGAAGCAGACACGGGTCGGAGGAAGCCTACATAGACCCCATGCCATGGA
GTATTACAACCTGGGGCGGTTCTCGAAGCCCCAGAAAGATGATGATGCAATTCTACGAGAATGTGCTC
ATTTGCAAGCAGAAAACACAGAGACAGGTGCCAGCAGGAGGGCATAGGTGGCCTCTGCAGAGGGGACC
TCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTCCCTCTGCCTCCCCGGAAGAAGA
TGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGGAGTCCAGGAAGGTATGGGG
CAACTCCAGAGAGAAGCATCCCCGGCCCGTGGGAAGCCAGACGAGGAGGACGGGGAACCGGATTACG
TGAATGGGGAGGTGGCAGCCACAGAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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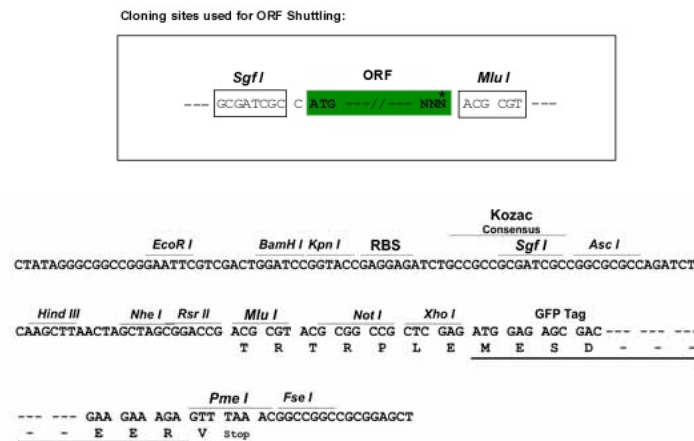
Protein Sequence: >RG200102 representing NM_032463
 Red=Cloning site Green=Tags(s)

MSSGTELLWPGAALLVLLGVAASLCVRC SRPGAKRSEKIYQQRSLREDQQSFTGSRTYSLVGQAWPGPLA
 DMAPTRKDKLLQFYPSLEDPASSRYQNF SKGSRHGSEEAYIDPIAMEYYNWGRFSKPPEDDDANSYENVL
 ICKQKTTETGAQQEGIGGLCRGDL SLSLALKTGPTSGLCPSASPEEDEESEDYQNSASIHQWRESRKVMG
 QLQREASPGPVGSPDEEDGEPDYVNGEVAATEA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032463

ORF Size: 729 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_032463.3](#)

RefSeq Size: 2129 bp

RefSeq ORF: 732 bp

Locus ID: 7462

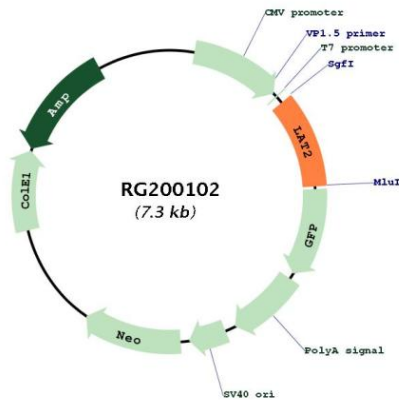
UniProt ID: [Q9GZY6](#)

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]

Product images:



Circular map for RG200102