

Product datasheet for **RC216754**

MLLT1 (NM_005934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLLT1 (NM_005934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLLT1
Synonyms:	ENL; LTG19; YEATS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216754 representing NM_005934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAATCAGTGCACCGTCCAGGTGAGGTTAGAGCTGGGGCATCGCGCCCAACTGCGCAAGAAGCCCA
 CCACGGAGGGGTTCACTCACGACTGGATGGTGTTCGCGCGGCCCGAGCAATGTGACATCCAGCACTT
 CGTGAGAGAAGGTGTTCTCTGGCTGCACGACAGCTTCCCAAGCCAGACGCGTGTGCAAGGAGCCCCC
 TACAAAGTAGAGGAGTCGGGTACGCTGGCTTCATCATGCCATCGAGGTGCACTTCAAAAAAAGGAGG
 AGCCGAGGAAGGTCTGCTTACCTACGACCTGTTCTGAACCTGGAAGGCAACCCGCCGTGAACCACT
 GCGCTGCGAGAAGCTCACCTTCAACAACCCACCACGGAGTTCGGTACAAGCTCCTGCGGGCGGCGGG
 GTGATGGTAATGCCGAAGGAGCAGACAGGTGTCCAGGCCAGTCCGACTACCCATGTTACCCACA
 TTCCACTCTCTGCCTTCTGACCCCAAGAAGACCAACCATCCACGGCTCAAGGACGCCAACAAAGGA
 GAGCAGCAAGACCTCAAGCCACACAAGGTGACCAAGGAGCACCGGGAGCGGCCCGCAAAGACTCCGAG
 AGCAAGAGCTCCTCAAGGAGCTGGAGCGTGAGCAGGCCAAAAGCTCCAAGGACACTCGCGGAAGCTGG
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 CGGGCTTCAGCAAGCGGCCGCCACCGCCGACTCGCCAAAGCCAGCGCCAAGAAGCAGAAGAAGAGCA
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 CAGCAAGGTGTGAGGCCGAGGAGCCCCGAGTCTGCAGCAAGCCTGAGAAGATCCTCAAGAAGGCACC
 TACGACAAGGCCTACACGGATGAGCTGGTGGAGCTACCCGGAGGCTGATGGCGTGCAGGAGCGCAACG
 TGCTGCAGCAGATTGTGAATCTGATCGAGGAGACTGGCCACTTCAATGTACCAACACCACCTTCGACTT
 CGACCTCTTCCCTGGACGAGACCACCGTGCCTAAAGTGCAGAGCTGCCTGGAGGCCGTGGCCACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC216754 representing NM_005934
 Red=Cloning site Green=Tags(s)

MDNQCTVQVRLELGHRAQLRKKPTTEGFTHDWMVFVRGPEQCDIQHFVEKVFWLHDSFPKPRRVCKEPP
 YKVEESGYAGFIMPIEVHFNKKEPRKVCFTYDLFLNLEGNPPVNHRLRCEKLTFFNNPTTEFRYKLLRAGG
 VMVMEGADTVSRSPDYPLPTIPLSAFSDPKKTKPSHGSKDANKESSKTSKPHKVTKHRERPRKDSE
 SKSSSKELEREQAKSSKDTSRKLGEGRLPKEEKAPPPKAAFKPKMALKETKLESTSPKGGPPPPPPPP
 RASSKRPATADSPKPSAKKQKKSSSKGSRAPGTSPTSSSSSFSDKKPAKDKSSTRGEKVKAESPREA
 KKALEVEESNSEDEAFKSESAQSSPSNSSSSSDSDSFPSQNHQGPLRSMVEDLQSESDDEDDSS
 SGEEAAGKTNPGRDSRLSFSDSESDNSADSSLPSREPPPPQKPPPPNSKVSRRSPESCSKPEKILKKG
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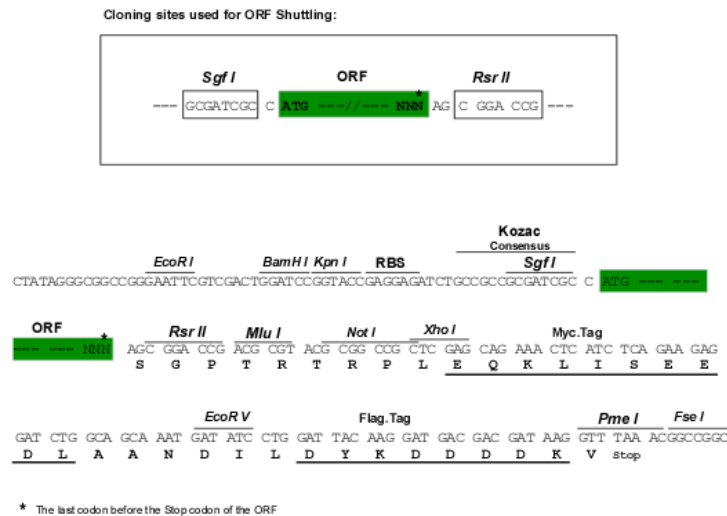
SGPTRTRRLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk8018_c10.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_005934

ORF Size: 1677 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005934.4](#)

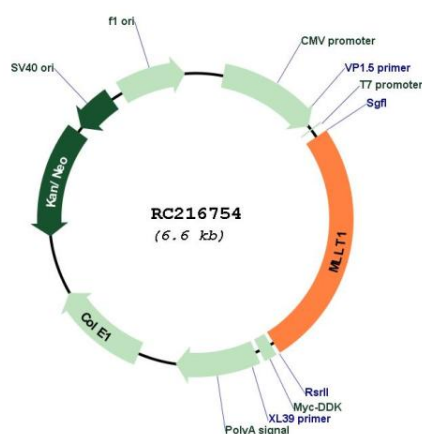
RefSeq Size: 1974 bp

RefSeq ORF: 1680 bp

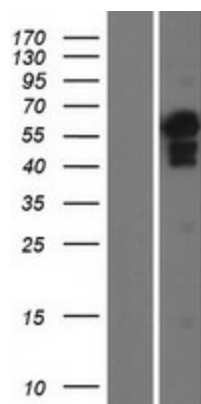
Locus ID: 4298

UniProt ID:	<u>Q03111</u>
Cytogenetics:	19p13.3
Domains:	YEATS
Protein Families:	Druggable Genome, Transcription Factors
MW:	61.9 kDa
Gene Summary:	Component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA.[UniProtKB/Swiss-Prot Function]

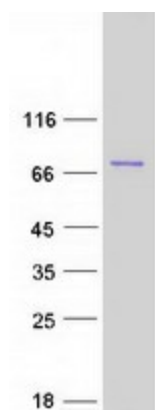
Product images:



Circular map for RC216754



Western blot validation of overexpression lysate (Cat# [LY416975]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216754 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MLLT1 protein (Cat# [TP316754]). The protein was produced from HEK293T cells transfected with MLLT1 cDNA clone (Cat# RC216754) using MegaTran 2.0 (Cat# [TT210002]).