

## Product datasheet for **RC228343**

### MLN64 (STARD3) (NM\_001165938) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MLN64 (STARD3) (NM_001165938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLN64
Synonyms:	CAB1; es64; MLN64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228343 representing NM\_001165938  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCAAGCTGCCAGGGAGCTGACCCGAGACTTGGAGCGCAGCCTGCCTGCCGTGGCCTCCCTGGGCT  
 CCTCACTGTCCCACAGCCAGAGCCTCTCCTCGCACCTCCTTCCGCGCCTGAGAAGCGAAGGGCCATCTC  
 TGATGTCCGCGCACCTTCTGTCTCTTCGTCACTTCGACCTGCTCTTCACTCCTGCTCTGGATCATC  
 GAACTGAATACCAACACAGGCATCCGTAAGAATTGGAGCAGGAGATCATCCAGTACAACCTTAAAACTT  
 CCTTCTCGACATCTTTGTCTGGCCTTCTCCGCTTCTCTGGACTGCTCCTAGGCTATGCCGTGCTGCG  
 GCTCCGGCACTGGTGGGTGATTGCGCTGCTCAGCAAAGGGGCATTTGGCTACCTGCTCCCATCGTCTCT  
 TTTGTCTCGCCTGGTTGGAGACCTGGTTCCTTGACTTCAAAGTCTACCCAGGAAGCTGAAGAGGAGC  
 GATGGTATCTTCCGCCAGGTTGCTGTTGCCCGTGGACCCTGCTGTTCTCCGGTCTCTGTCCGAGGG  
 ACAGTTCTATTCACCCCAAGAATCCTTTGACGGGTCTGACAATGAATCAGATGAAGAAGTTGCTGGGAAG  
 AAAAGTTTCTCTGCTCAGGAGCGGGAGTACATCCGCCAGGGGAAGGAGGCCACGGCAGTGGTGGACCAGA  
 TCTTGGCCAGGAAGAGAAGTGAAGTTTGAAGAATAATGAATATGGGGACACCGTGTACACCATTGA  
 AGTTCCCTTTACGGCAAGACGTTTATCCTGAAGACCTTCTGCCTGTCTGCGGAGCTCGTGTACCAG  
 GAGGTGATCCTGCAGCCGAGAGGATGGTGTGTGGAACAAGACAGTACTGCTGCCAGATCCTGCAGC  
 GAGTGGAAAGACAACCCCTATCTCCTATGACGTGTCTGCAGGGGCTGCGGGCGGCGTGGTCTCCCAAG  
 GGACTTCGTGAATGTCCGGCGCATTGAGCGGCGCAGGGACCGATACTTGTATCAGGGATCGCCACCTCA  
 CACAGTCCAAGCCCCGACGCACAAATATGTCGGGGAGAGAATGGCCCTGGGGCTTCATCGTGTCTCA  
 AGTCGGCCAGTAACCCCGTGTGTTGCACCTTTGCTGGATTCTTAATACAGATCTCAAGGGCCCGCTGCC  
 CCGGTACCTCATCCACCAGAGCCTCGCGGCCACCATGTTTGAATTTGCCTTTCACCTGCGACAGCGCATC  
 AGCGAGCTGGGGCCCGGGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228343 representing NM\_001165938  
 Red=Cloning site Green=Tags(s)

MSKLPRELTRDLERSLPVAVASLGSLSHSQSLSSHLLPPPEKRRAISDVRRTFCLFVTFDLLFISLLWII  
 ELNNTNGIRKNLEQEI IQYNFKTSFFDIFVLAFFRFSGLLLGYAVLRLRHWWVIALLSKGAFGYLLPIVS  
 FVLAWLETWFLDFKVLPEAEERWYLAQVAVARGPLLFSGALSEGQFYSPPEFAGSDNESDEEVAGK  
 KSFSAQEREYIRQGEATAVVDQILAQEENWKFENNEYGDTVYTIIEVPFHGKTFILKTFLPCPAELVYQ  
 EVILQPERMVLWNKTVTACQILQRVEDNTLISYDVSAGAAGGVVSPRDFVNVRRRIERRDRYLSSGIATS  
 HSAKPPTHKYVRGENPGGFIVLKSASNPRVCTFVWILNTDLKGRLLPRYLHQSLAATMFEFAFHRLRQRI  
 SELGARA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8059\\_b08.zip](https://cdn.origene.com/chromatograms/mk8059_b08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001165938

**ORF Size:** 1281 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\\_001165938.1](#), [NP\\_001159410.1](#)

**RefSeq ORF:** 1284 bp

**Locus ID:** 10948

**UniProt ID:** [Q14849](#)

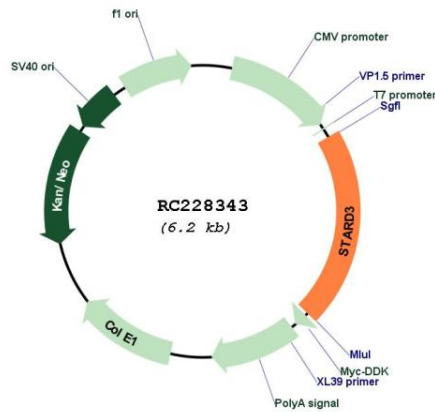
**Cytogenetics:** 17q12

**Protein Families:** Transmembrane

**MW:** 48.4 kDa

**Gene Summary:** This gene encodes a member of a subfamily of lipid trafficking proteins that are characterized by a C-terminal steroidogenic acute regulatory domain and an N-terminal metastatic lymph node 64 domain. The encoded protein localizes to the membranes of late endosomes and may be involved in exporting cholesterol. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Oct 2009]

**Product images:**



Circular map for RC228343