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# Product datasheet for SC115858

## MLN64 (STARD3) (NM_006804) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | MLN64 (STARD3) (NM_006804) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | MLN64 |
| **Synonyms:** | CAB1; es64; MLN64 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>OriGene sequence for NM_006804 edited
GAATTCGGCACGAGGGCTGCCGGAAGATCTTCTTCCGCTCTGAGGCGCTACTGAGGCCGC
GGAGCCGGACTGCGGTTGGGGCGGGAAGAGCCGGGGCCGTGGCTGACATGGAGCAGCCCT
GCTGCTGAGGCCGCGCCCTCCCCGCCCTGAGGTGGGGGCCCACCAGGATGAGCAAGCTGC
CCAGGGAGCTGACCCGAGACTTGGAGCGCAGCCTGCCTGCCGTGGCCTCCCTGGGCTCCT
CACTGTCCCACAGCCAGAGCCTCTCCTCGCACCTCCTTCCGCCGCCTGAGAAGCGAAGGG
CCATCTCTGATGTCCGCCGCACCTTCTGTCTCTTCGTCACCTTCGACCTGCTCTTCATCT
CCCTGCTCTGGATCATCGAACTGAATACCAACACAGGCATCCGTAAGAACTTGGAGCAGG
AGATCATCCAGTACAACTTTAAAACTTCCTTCTTCGACATCTTTGTCCTGGCCTTCTTCC
GCTTCTCTGGACTGCTCCTAGGCTATGCCGTGCTGCGGCTCCGGCACTGGTGGGTGATTG
CGGTCACGACGCTGGTGTCCAGTGCATTCCTCATTGTCAAGGTCATCCTCTCTGAGCTGC
TCAGCAAAGGGGCATTTGGCTACCTGCTCCCCATCGTCTCTTTTGTCCTCGCCTGGTTGG
AGACCTGGTTCCTTGACTTCAAAGTCCTACCCCAGGAAGCTGAAGAGGAGCGATGGTATC
TTGCCGCCCAGGTTGCTGTTGCCCGTGGACCCCTGCTGTTCTCCGGTGCTCTGTCCGAGG
GACAGTTCTATTCACCCCCAGAATCCTTTGCAGGGTCTGACAATGAATCAGATGAAGAAG
TTGCTGGGAAGAAAAGTTTCTCTGCTCAGGAGCGGGAGTACATCCGCCAGGGGAAGGAGG
CCACGGCAGTGGTGGACCAGATCTTGGCCCAGGAAGAGAACTGGAAGTTTGAGAAGAATA
ATGAATATGGGGACACCGTGTACACCATTGAAGTTCCCTTTCACGGCAAGACGTTTATCC
TGAAGACCTTCCTGCCCTGTCCTGCGGAGCTCGTGTACCAGGAGGTGATCCTGCAGCCCG
AGAGGATGGTGCTGTGGAACAAGACAGTGACTGCCTGCCAGATCCTGCAGCGAGTGGAAG
ACAACACCCTCATCTCCTATGACGTGTCTGCAGGGGCTGCGGGCGGCGTGGTCTCCCCAA
GGGACTTCGTGAATGTCCGGCGCATTGAGCGGCGCAGGGACCGATACTTGTCATCAGGGA
TCGCCACCTCACACAGTGCCAAGCCCCCGACGCACAAATATGTCCGGGGAGAGAATGGCC
CTGGGGGCTTCATCGTGCTCAAGTCGGCCAGTAACCCCCGTGTTTGCACCTTTGTCTGGA
TTCTTAATACAGATCTCAAGGGCCGCCTGCCCCGGTACCTCATCCACCAGAGCCTCGCGG
CCACCATGTTTGAATTTGCCTTTCACCTGCGACAGCGCATCAGCGAGCTGGGGGCCCGGG
CGTGACTGTGCCCCCTCCCACCCTGCGGGCCAGGGTCCTGTCGCCACCACTTCCAGAGCC
AGAAAGGGTGCCAGTTGGGCTCGCACTGCCCACATGGGACCTGGCCCCAGGCTGTCACCC
TCCACCGAGCCACGCAGTGCCTGGAGTTGACTGACTGAGCAGGCTGTGGGGTGGAGCACT
GGACTCCGGGGCCCCACTGGCTGGAGGAAGTGGGGTCTGGCCTGTTGATGTTTACATGGC
GCCCTGCCTCCTGGAGGACCAGATTGCTCTGCCCCACCTTGCCAGGGCAGGGTCTGGGCT
GGGCACCTGACTTGGCTGGGGAGGACCAGGGCCCTGGGCAGGGCAGGGCAGCCTGTCACC
CGTGTGAAGATGAAGGGGCTCTTCATCTGCCTGCGCTCTCGTCGGTTTTTTTAGGATTAT
TGAAAGAGTCTGGGACCCTTGTTGGGGAGTGGGTGGCAGGTGGGGGTGGGCTGCTGGCCA
TGAATCTCTGCCTCTCCCAGGCTGTCCCCCTCCTCCCAGGGCCTCCTGGGGGACCTTTGT
ATTAAGCCAATTAAAAACATGAATTTAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_006804 unedited
CGTCGAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCTGCCGGNA
AGATCTTCTTCCGCTCTGGGCGCTACTGAGGCCGCGGAGCCGGACTGCGGTTGGGGCGGG
AAGAGCCGGGGCCGTGGCTGACATGGAGCAGCCCTGCTGCTGAGGCCGCGCCCTCCCCGC
CCTGAGGTGGGGGCCCACCAGGATGAGCAAGCTGCCCAGGGAGCTGACCCGAGACTTGGA
GCGCAGCCTGCCTGCCGTGGCCTCCCTGGGCTCCTCACTGTCCCACAGCCAGAGCCTCTC
CTCGCACCTCCTTCCGCCGCCTGAGAAGCGAAGGGCCATCTCTGATGTCCGCCGCACCTT
CTGTCTCTTCGTCACCTTCGACCTGCTCTTCATCTCCCTGCTCTGGATCATCGAACTGAA
TACCAACACAGGCATCCGTAAGAACTTGGAGCAGGAGATCATCCAGTACAACTTTAAAAC
TTCCTTCTTCGACATCTTTGTCCTGGCCTTCTTCCGCTTCTCTGGACTGCTCCTAGGCTA
TGCCGTGCTGCGGCTCCGGCACTGGTGGGTGATTGCGGTCACGACGCTGGTGTCCAGTGC
ATTCCTCATTGTCAAGGTCATCCTCTCTGAGCTGCTCAGCANAGGGGCATTTGGCTACCT
GCTCCCCATCGTCTCTTTTGTCCTCGCCTGGTTGGAGACCTGGTTCCTTGACTTCAAAGT
CTACCNCAGGAAAGCTGAGAGAGCGATGGTATCTTGCCGCCCAGTTTGCTGTGCCCGTGG
ACCCCTGCTGNTCTNCNGTGCTCTGTTCGAGGGACAGTCTATTCACCCCAAATCCTTTGC
AAGGTCTGACATGNATCANATGAGAATTGCTGGGAAGAAAAGTTCTCTGCTCAGGAGCGG
AGTCATCCGNCAGGGGAAGGAGCCACGCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_006804 unedited
CGCATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAAATTCATGTTTTTAATTGGCTTAAT
ACAAAGGTCCCCCAGGAGGCCCTGGGAGGAGGGGGACAGCCTGGGAGAGGCAGAGATTCA
TGGCCAGCAGCCCACCCCCACCTGCCACCCACTCCCCAACAAGGGTCCCAGACTCTTTCA
ATAATCCTAAAAAAACCGACGAGAGCGCAGGCAGATGAAGAGCCCCTTCATCTTCACACG
GGTGACAGGCTGCCCTGCCCTGCCCAGGGCCCTGGTCCTCCCCAGCCAAGTCAGGTGCCC
AGCCCAGACCCTGCCCTGGCAAGGTGGGGCAGAGCAATCTGGTCCTCCAGGAGGCAGGGC
GCCATGTAAACATCAACAGGCCAGACCCCACTTCCTCCAGCCAGTGGGGCCCCGGAGTCC
AGTGCTCCACCCCACAGCCTGCTCAGTCAGTCAACTCCAGGCACTGCGTGGCTCGGTGGA
GGGTGACAGCCTGGGGCCAGGTCCCATGTGGGCAGTGCGAGCCCAACTGGCACCCTTTCT
GGCTCTGGAAGTGGTGGCGACAGGACCCTGGCCCGCAGGGTGGGAGGGGGCACAGTCACG
CCCGGGGCCCCCAGCTCGCTGATGCGCTGTCGCAGGTGAAAGGCAAATTCAAACATGGNTG
GCCGCGAGGCTCTGGTGGATGAGGTACCGGGGCANGCGGCCCTTGAGATCTGTATTAAGA
ATCCAGACAAAGGTGCAAACACGGGGTTTACTGGGCGACTTGAGCACGATGAGCCCCCAG
GGCCATTCTCCTCCCCGCAATATTNGTGCGTCCGGGCGCCTGGCACTGTGTGAAGTGGCG
ATCCCTGATGACAAGTATCGGTCCCTTGCGCCGCTCATGCGCCGGACATTCACGAGTGCC
CTTGGGGAGACCACGCCGCCNGCACCCCTGCANGACACGTATAGAGATGAGGGTGTTGGC
TTCCACTCCCTGCAGAATCTGGCAGCCATCACCTGCTTGTTCCACAAACCTCCTTTGG

**Restriction Sites:** NotI-NotI

**ACCN:** NM_006804

**Insert Size:** 2240 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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_006804.2, NP_006795.2 |
| **RefSeq Size:** | 2073 bp |
| **RefSeq ORF:** | 1338 bp |
| **Locus ID:** | 10948 |
| **UniProt ID:** | Q14849 |
| **Cytogenetics:** | 17q12 |
| **Domains:** | START |
| **Protein Families:** | Transmembrane |
| **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]<br>Transcript Variant: This variant (1) encodes the predominant isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |