

Product datasheet for **RG206802**

MLN64 (STARD3) (NM_006804) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MLN64
Synonyms:	CAB1; es64; MLN64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG206802 representing NM_006804
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCAAGCTGCCAGGGAGCTGACCCGAGACTTGGAGCGCAGCCTGCCTGCCGTGGCCTCCCTGGGCT
 CCTCACTGTCCACAGCCAGAGCCTCTCCTCGCACCTCCTTCGCCGCCCTGAGAAGCGAAGGGCCATCTC
 TGATGTCCGCCGACCTTCTGTCTCTTCGTACCTTCGACCTGCTCTTCATCTCCCTGCTCTGGATCATC
 GAACTGAATACCAACACAGGCATCCGTAAGAAGTTGGAGCAGGAGATCATCCAGTACAACTTTAAACTT
 CCTTCTTCGACATCTTTGCTGGCCTTCTTCGCTTCTCTGGACTGCTCCTAGGCTATGCCGTGCTGCG
 GCTCCGGCACTGGTGGGTGATTGCGGTCACGACGCTGGTGTCCAGTGCATTCTCATTGTCAAGGTCATC
 CTCTCTGAGCTGCTCAGCAAAGGGGCATTTGGCTACCTGCTCCCCATCGTCTCTTTTGTCTCGCCTGGT
 TGGAGACCTGGTTCCTGACTTCAAAGTCTACCCAGGAAGCTGAAGAGGAGCGATGGTATCTTGCCGC
 CCAGGTTGCTGTTGCCCGTGGACCCCTGCTGTTCTCCGGTGTCTGTCCGAGGACAGTTCTATTACCC
 CCAGAACTCCTTTGCAGCGTCTGACAAATGAATCAGATGAAGAAGTTGCTGGGAAGAAAAGTTTCTCTGCTC
 AGGAGCGGGAGTACATCCGCCAGGGGAAGGAGGCCACGGCAGTGGTGGACCAGATCTTGGCCCAGGAAGA
 GAACTGGAAGTTTGAGAAGAATAATGAATATGGGGACACCGTGTACACCATTAAGTTCCCTTTCACGGC
 AAGACGTTTATCTGAAGACCTTCTGCGCTGTCTGCGGAGCTCGTGTACCAGGAGGTGATCTGCAGC
 CCGAGAGGATGGTGTGTGGAACAAGACAGTGAAGTGCCTGCCAGATCCTGCAGCGAGTGGAAGACAACAC
 CCTCATCTCTATGACGTGTCTGCAGGGGCTGCGGGCGGCGTGGTCTCCCAAGGGACTTCGTGAATGTC
 CGGCGCATTGAGCGGCGCAGGACCGATACTTGTATCAGGGATCGCCACCTCACACAGTGCCAAGCCCC
 CGACGCACAAATATGTCCGGGAGAGAATGGCCCTGGGGGCTTATCGTGCTCAAGTCGGCCAGTAACCC
 CCGTGTGTTGACCTTTGTCTGGATTCTTAATACAGATCTCAAGGGCCGCTGCCCGGTACCTCATCCAC
 CAGAGCCTCGCGGCCACCATGTTTGAATTTGCCTTTCACCTGCGACAGCGCATCAGCGAGCTGGGGGCC
 GGGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206802 representing NM_006804
 Red=Cloning site Green=Tags(s)

MSKLPRELTRDLERSLPAVASLGSSLSHSQSLSSHLLPPPEKRRRAISDVRRTFCLFVTFDLLFISLLWII
 ELNNTNGIRKNLEQEI IQYNFKTSFFDIFVLAFFRFSGLLLGYAVLRRLRHHWVIAVTTLVSSAFLIVKVI
 LSELLSKGAFGYLLPIVSFVLAWLETWFLDFKVLPEAEERWYLAQVAVARGPLLFSGALSEGQFYSP
 PESFAASDNESDEEVAGKKSFAQEREYIRQGKEATAVVDQILAQEENWKFEKNNEYGDTVYTIEVPFHG
 KTFILKTFLPCPAELVYQEVILQPERMVLWNKTVTACQILQRVEDNTLISYDVSAGAAGGVSPRDFVNV
 RRIERRDRYLSSGIATSHSAKPPTHKYVRGENGPGGFIVLKSASNPRVCTFVWILNTDLKGRLPRYLIIH
 QSLAATMFEFAFHLRQRISLGARA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006804

ORF Size: 1335 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_006804.2](#), [NP_006795.2](#)

RefSeq Size: 2073 bp

RefSeq ORF: 1338 bp

Locus ID: 10948

UniProt ID: [Q14849](#)

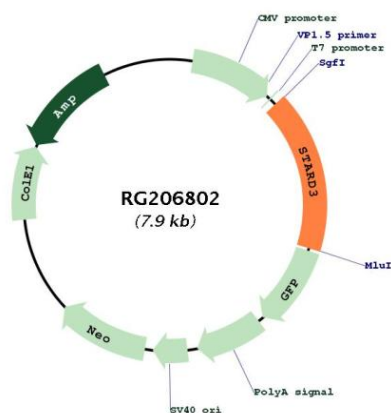
Cytogenetics: 17q12

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]

Product images:



Circular map for RG206802