

## Product datasheet for **RG228343**

### 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:                      | TurboGFP   |
| Symbol:                   | STARD3   |
| Synonyms:                 | CAB1; es64; MLN64  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG228343 representing NM_001165938<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAAGCTGCCAGGGAGCTGACCCGAGACTTGGAGCGCAGCCTGCCTGCCGTGGCCTCCCTGGGCT  
CCTCACTGTCCCACAGCCAGAGCCTCTCCTCGCACCTCCTTCGCGCCCTGAGAAGCGAAGGGCCATCTC  
TGATGTCCGCCACCTTCTGTCTTTCGTACCTTCGACCTGCTCTTCATCTCCCTGCTCTGGATCATC  
GAACTGAATAACACAGGCATCCGTAAGAAGTTGGAGCAGGAGATCATCCAGTACAACTTAAAACTT  
CCTTCTCGACATCTTTGTCTGGCCTTCTTCGCTTCTCTGGACTGCTCCTAGGCTATGCCGTGCTGCG  
GCTCCGGCACTGGTGGGTGATTGCGCTGCTCAGCAAAGGGGCATTTGGCTACCTGCTCCCATCGTCTCT  
TTTGTCTCGCCTGGTTGGAGACCTGGTTCTTGAATTCAAAGTCTACCCAGGAAGCTGAAGAGGAGC  
GATGGTATCTTGGCCCGCCAGGTTGCTGTTGCCCGTGGACCCCTGCTGTTCTCCGGTGTCTGTCCGAGGG  
ACAGTTTATTACCCCCAGAATCCTTTGCAGGGTCTGACAATGAATCAGATGAAGAAGTTGCTGGGAAG  
AAAAGTTTCTCTGCTCAGGAGCGGGAGTACATCCGCCAGGGGAAGGAGGCCACGGCAGTGGTGGACCAGA  
TCTTGGCCAGGAAGAGAAGTGAAGTTTGAAGAATAATGAATATGGGGACACCGTGTACACCATTTGA  
AGTTCCCTTTCACGGCAAGACGTTTATCCTGAAGACCTTCCTGCCCTGTCTGCGGAGCTCGTGTACCAG  
GAGGTGATCCTGCAGCCGAGAGGATGGTCTGTGGAACAAGACAGTACTGCTGCCAGATCCTGCAGC  
GAGTGGAAAGACAACCCCTCATCTCCTATGACGTGTCTGCAAGGGCTGCGGGCGGCGTGGTCTCCCAAG  
GGACTTCTGTAATGTCCGGCGCATTGAGCGGCGCAGGGACCGATCTTGTATCAGGGATCGCCACCTCA  
CACAGTGCCAAGCCCCGACGCACAAATATGTCCGGGGAGAGAATGGCCCTGGGGGCTTTCATCGTCTCA  
AGTCGGCCAGTAACCCCGTGTTCACCTTTGTCTGGATTCTTAATACAGATCTCAAGGGCCGCTGCC  
CCGGTACCTCATCCACCAGACCTCGCGGCCACCATGTTTGAATTTGCCTTTCACCTGCGACAGCGCATC  
AGCGAGCTGGGGGCCCGGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228343 representing NM\_001165938  
 Red=Cloning site Green=Tags(s)

MSKLPRELTRDLERSLPVAVASLGSSLSHSQSLSSHLLPPPEKRRAISDVRRTFCLFVTFDILLFISLLWII  
 ELNTNTGIRKNLEQEIIQYNFKTSFFDIFVLAFFRFSGLLLGYAVLRLRHWWVIALLSKGAFGYLLPIVS  
 FVLAWLETWFLDFKVLPEAEERWYLAQVAVARGPLLFSGALSEGQFYSPPEFAGSDNESDEEVAGK  
 KSFSAQEREYIRQGEATAVVDQILAQEENWKFKEKNNEYGDTVYTIIEVPFHGKTFILKTFLLPCPAELVYQ  
 EVILQPERMVLWNKTVTACQILQRVEDNTLISYDVSAGAAGGVVSPRDFVNVRRRIERRDRYLSGGIATS  
 HSAKPPTHKYVRGENGGFIVLKSASNPRVCTFVWILNTDLKGRLPRYLHQLAATMFEFAFHLRQRI  
 SELGARA

TRTRPLE - GFP Tag - V

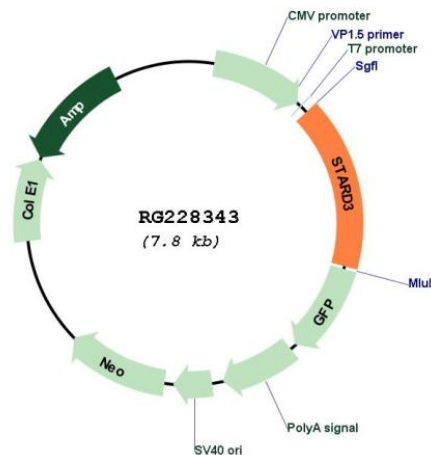
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001165938

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1281 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_001165938.1</a> , <a href="#">NP_001159410.1</a>   |
| <b>RefSeq Size:</b>           | 2780 bp   |
| <b>RefSeq ORF:</b>            | 1284 bp   |
| <b>Locus ID:</b>              | 10948   |
| <b>UniProt ID:</b>            | <a href="#">Q14849</a>  |
| <b>Cytogenetics:</b>          | 17q12   |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Gene Summary:</b>          | 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]  |