

## Product datasheet for **MG205217**

### Erlin1 (NM\_145502) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Erlin1 (NM_145502) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Erlin1
Synonyms:	2810439N09Rik; C80197; Keo4; Spfh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205217 representing NM_145502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTCAAGCCCGGCTTCTGGTGGCTGCAGTGGTGGGGTTGGTGGCGATCCTCCTGTACGCCTCCATCC  
ACAAGATCGAAGAGGGACACTTGGCCGTGACTACAGGGGAGGAGCTTTGCTAACGAGCCCCAGTGGACC  
AGGCTATCATATCATGTTGCCTTTCATTACAACATTCAGATCTGTGCAGACAACACTACAAACGGATGAA  
GTTAAAAATGTGCCTTGTGGAACAAGTGGTGGAGTCATGATCTATATTGACCGAATAGAAGTGGTTAATA  
TGTTGGCTCCTTATGCAGTGTGGACATTTGAGGAACTATACTGCAGACTACGACAAGACTTTAATCCTT  
CAATAAAATCCACCATGAGCTGAACAGTTTTGTCAGTGCCACACACTTCAAGAAGTTTACATAGAATTG  
TTTGATCAAATAGATGAAAACCTGAAGCAGGCCCTGCAAAAAGATTTAAACACCATGGCCCCAGGTCTCA  
CTATCCAGGCTGTGCGTGTACAAAACCCAAAATCCCAGAAGCCATAAGAAGAAATTTGAATTAATGGA  
GGCAGAGAAGACAAAACCTTCTCATAGCTGCACAGAAAACAAAAGGTGGTGGAGAAAGAAGCTGAGACGGAG  
AGGAAAAGGGCTGTTATAGAAGCAGAGAAGATTGCACAAGTAGCAAAAATTCGATTTCAACAGAAAGTGA  
TGGAGAAAGAACTGAAAACGCATTTCTGAGATTGAAGATGCTGCGTTCCTGGCCCGAGAGAAGGCCAA  
AGCAGATGCCGAGTATTACGCTGCACACAAATACGCCACCTCAAACAAGCACAACTGACCCAGAGTAT  
CTGGAGCTCAAGAAATACCAGGCCATTGCCTCAAACAGTAAGATCTACTTTGGCAGCAACATCCCCAGCA  
TGTTTGTGGACTCCTCCTGTGCTCTGAAATACTCTGATGGTAGGACTGGGAGAGAAGACTCCCTTCCCCC  
AGAGGAGGCCCGTGGGCCCTCTGGAGAGAGCCCATCCAAAACAAGGAGAACGCAGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205217 representing NM\_145502  
 Red=Cloning site Green=Tags(s)

MTQARLLVAAVVGLVAILLYASIHKIEEGHLAVYYRGGALLTSPSPGPGYHIMLPFITTFRSVQTTLQTD  
 VKNVPCGTSGGVMYIDRIEVNMLAPYAVFDIVRNYTADYDKTLIFNKIHHELNQFCSAHTLQEVYIEL  
 FDQIDENLKQALQKDLNTMAPGLTIQAVRVTKPKIPEAIRNFELMEAEKTKLLIAAQKQKVVEKEAETE  
 RKRAVIEAEKIAQVAKIRFQQKVMKEKETEKRISIEIEDAAFLAREKAKADAEYYAAHKYATSNKHKLTPEY  
 LELKKYQAIASNSKIYFGSNIPSMFVDSSEALKYSDGRTGREDSLPPEEAREPSGESPIQNKENAG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145502

**ORF Size:** 1038 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\\_145502.1](#)

**RefSeq Size:** 3349 bp

**RefSeq ORF:** 1047 bp

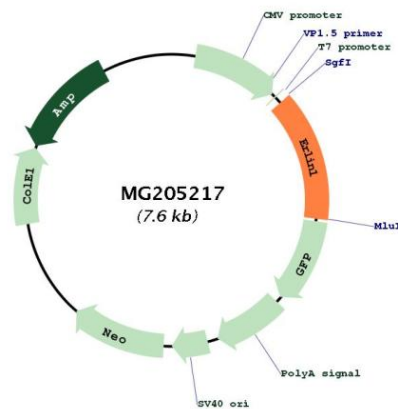
**Locus ID:** 226144

**UniProt ID:** [Q91X78](#)

**Cytogenetics:** 19 C3

**Gene Summary:** Component of the ERLIN1/ERLIN2 complex which mediates the endoplasmic reticulum-associated degradation (ERAD) of inositol 1,4,5-trisphosphate receptors (IP3Rs). Involved in regulation of cellular cholesterol homeostasis by regulation the SREBP signaling pathway. Binds cholesterol and may promote ER retention of the SCAP-SREBF complex (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG205217