

Product datasheet for **MG205094**

Erlin2 (NM_153592) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erlin2 (NM_153592) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Erlin2
Synonyms:	BC036333; C87251; Spfh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205094 representing NM_153592 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGTTGGGAGCTGTTGTGGCTGTGGCTTCCAGTTTCTTTTGTGCATCTCTTCTCAGCTGTGC
ACAAGATAGAAGAGGGACATATTGGAGTATATTACAGAGGTGGTGCCTGCTGACCTCCACCAGTGGCCC
GGGTTTCCATCTCATGCTCCCGTTCATCACATCCTATAAGTCTGTACAGACCACTCTCCAACTGATGAA
GTGAAGAACGTACCATGTGGAACCACTGGTGGTGTGATGATCTACTTTGACAGAATTGAAGTGGTGAAC
TCCTGGTCCCAAATGCAGTGTATGATATAGTGAAGAACTATACTGCAGACTATGACAAGGCCCTCATCTT
CAACAAGATCCATCATGAACTTAACAGTTCTGCAGCGTTCATACTCTTCAGGAAGTCTATATCGAGCTG
TTTGATCAAATTGATGAAAACCTCAAGTTGGCTTTGCAGCAGGACCTGACTTCCATGGCCCTGGGCTGG
TTATCAAAGCTGTGCGAGTGACAAAAGCCCAATATACCTGAGGCAATCCGCAGGAAGTATGAGCTGATGGA
AAGCGAGAAGACGAAAGCTTCTCATTGCAGCCCAGAAAGCAGAAAGGTGGTGGAAAAGGAGGCAGAAACAGAG
AGGAAGAAGGCCCTCATTGAGGCAGAAAAGTGGCACAGGTTGCAGAAATCACCTATGGGCAAAAGGTGA
TGGAGAAGGAGACAGAGAAGAAGATCTCAGAAAATTGAAGATGCTGCGTTCCTGGCCCGGGAGAAGGCCAA
GGCCGACGCTGAGTGCTACACAGCGCTGAAGATCGCAGAAAGCAATAAGCTCAAGCTGACTCCAGAATAC
CTGCAGCTGATGAAGTACAAGGCCATTGCTTCCAACAGCAAGATTTACTTCGGCAAGACATCCCCAACA
TGTTTATGGATTCCGCAGGGGGCTGGCAAGCAGTTTTGAGGGGCTGAGCGACGACAAGCTGGGCTTTGG
CCTAGAAGATGAGCCCTCGAGGCACCCACAAAGGAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205094 representing NM_153592
 Red=Cloning site Green=Tags(s)

MAQLGAVVAVASSFFCASLFSAVHKIEEGHIGVYYRGGALLTSTSGPGFHLMLPFITSYKSVQTTLQTDE
 VKNVPCGTSGGVMIFYDRIEVNFLVFNNAVYDIVKNYTADYDKALIFNKIHHELNQFCSVHTLQEVYIEL
 FDQIDENLKLALQQLTSMAPGLVIQAVRVTKPNIPEAIRRNYELMESEKTKLLIAAQKQKVVEKEAETE
 RKKALIEAEKVAQVAEITYGQKVMKEKETEKKISEIEDAAFLAREKAKADAECYALKIAEANKLKLTP EY
 LQLMKYKAIASNSKIYFGKDIPNMFMSAGGLGKQFEGLSDDKLGFGLDEPLEAPTEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153592

ORF Size: 1020 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_153592.1](#), [NP_705820.1](#)

RefSeq Size: 3892 bp

RefSeq ORF: 1023 bp

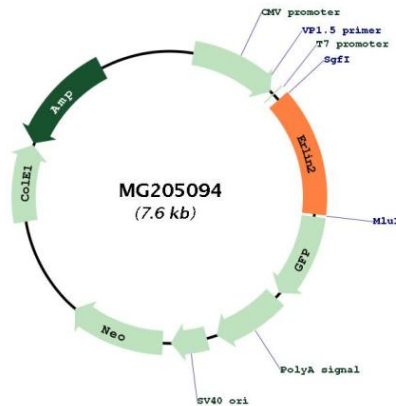
Locus ID: 244373

UniProt ID: [Q8BFZ9](#)

Cytogenetics: 8 A2

Gene Summary: Component of the ERLIN1/ERLIN2 complex which mediates the endoplasmic reticulum-associated degradation (ERAD) of inositol 1,4,5-trisphosphate receptors (IP3Rs) such as ITPR1. Promotes sterol-accelerated ERAD of HMGCR probably implicating an AMFR/gp78-containing ubiquitin ligase complex. Involved in regulation of cellular cholesterol homeostasis by regulation the SREBP signaling pathway. May promote ER retention of the SCAP-SREBF complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205094