

Product datasheet for MR217210

Erlin1 (NM_145502) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erlin1 (NM_145502) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erlin1
Synonyms:	2810439N09Rik; C80197; Keo4; Spfh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217210 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCAAGCCCGGCTTCTGGTGGCTGCAGTGGTGGGGTTGGTGGCGATCCTCCTGTACGCCTCCATCC
ACAAGATCGAAGAGGGACACTTGGCCGTGACTACAGGGGAGGAGCTTTGCTAACGAGCCCCAGTGGACC
AGGCTATCATATCATGTTGCCTTCCATTACAACATTCAGATCTGTGCAGACAACACTACAAACGGATGAA
GTTAAAAATGTGCCTTGTGGAACAAGTGGTGGAGTCATGATCTATATTGACCGAATAGAAGTGGTTAATA
TGTTGGCTCCTTATGCAGTGTGGACATTGTGAGGAATACTGCAGACTACGACAAGACTTTAATCTT
CAATAAAATCCACCATGAGCTGAACCAGTTTTGCAAGTCCACACTTCAAGAAGTTTACATAGAATTG
TTTGATCAAATAGATGAAAACCTGAAGCAGGCCCTGCAAAAAGATTTAAACACCATGGCCCCAGGTCTCA
CTATCCAGGCTGTGCGTGTACAAAACCCAAAATCCCAGAAGCCATAAGAAGAAATTTGAATTAATGGA
GGCAGAGAAGACAAAACCTTCTCATAGCTGCACAGAAAACAAAAGGTGGTGGAGAAAGAAGCTGAGACGGAG
AGGAAAAGGGCTGTTATAGAAGCAGAGAAGATTGCACAAGTAGCAAAAATTCGATTTCAACAGAAAGTGA
TGGAGAAAGAACTGAAAACGCATTTCTGAGATTGAAGATGCTGCGTTCCTGGCCCGAGAGAAGGGCAA
AGCAGATGCCGAGTATTACGCTGCACACAAATACGCCACCTCAAACAAGCACAACTGACCCAGAGTAT
CTGGAGCTCAAGAAATACCAGGCCATTGCCTCAAACAGTAAGATCTACTTTGGCAGCAACATCCCCAGCA
TGTTTGTGGACTCCTCCTGTGCTCTGAAATACTCTGATGGTAGGACTGGGAGAGAAGACTCCCTTCCCC
AGAGGAGGCCCGTGGCCCTCTGGAGAGAGCCCCATCCAAAACAAGGAGAACGCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217210 protein sequence
Red=Cloning site Green=Tags(s)

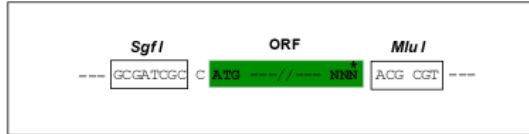
MTQARLLVAAVVGLVAILLYASIHKIEEGHLAVYYRGGALLTSPSPGPGYHIMLPSITTFRSVQTTLQTDE
VKNVPCGTSGGVMIIYIDRIEVNMLAPYAVFDIVRNYTADYDKTLIFNKIHHELNQFCSAHTLQEVYIEL
FDQIDENLKQALQKDLNTMAPGLTIQAVRVTKPKIPEAIRNFELMEAEKTKLLIAAQKQKVVEKAETE
RKRAVIEAEKIAQVAKIRFQQKVMEEKETEKRISEIEDAAFLAREKAKADAEYYAAHKYATSNKHKLTPEY
LELKKYQAIASNSKIYFGSNIPSMFVDSSEALKYSDGRTGREDSLPPEEAREPSGESPIQNKENAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145502

ORF Size: 1041 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_145502.3](#), [NP_663477.3](#)

RefSeq Size: 3349 bp

RefSeq ORF: 1047 bp

Locus ID: 226144

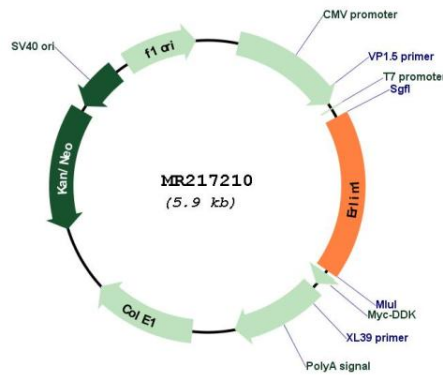
UniProt ID: [Q91X78](#)

Cytogenetics: 19 C3

MW: 38.9 kDa

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 MR217210