

Product datasheet for **RR212952**

Erlin2 (NM_001106088) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Erlin2 (NM_001106088) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Erlin2
Synonyms: RGD1309010; Spfh2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212952 representing NM_001106088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCAATTGGGAGCAGTTGTGGCTGTGGCTTCCAGTTTCTTTGCGCATCTCTTTCTCAGCTGTGC
 ACAAGATAGAAGAGGGACATATCGGAGTATATTACAGAGGTGGTGCCTGCTGACCTCCACCAGTGGCC
 AGGTTTCCATCTCATGCTCCCGTTCATCACATCCTACAAGTCTGTACAGACCACTCTCCAACGGATGAA
 GTGAAGAAGCTACCATGCGGAACCAAGTGGTGGTGTGATGATCTACTTTGACAGAATTGAAGTGGTGAAC
 TCTGGTCCCACATGCAGTGTATGATATAGTGAAGAACTATACTGCAGACTATGACAAGGCCCTCATCTT
 CAACAAGATTCATCATGAGCTTAACCAGTTCTGCAGCGTCCATACACTTCAGGAAGTCTATATCGAGCTG
 TTTGATCAAAATCGATGAAAACCTCAAAATGGCTTTGCAGCAGGACCTGACCTCCATGGCCCTGGGCTT
 TTATCCAAGCTGTACGAGTGACAAAGCCCAACATCCCTGAGGCAATCCGCAGGAATATGAGTTGATGGA
 AAGCGAGAAGACGAAGCTTCTCATTGCGGCCAGAAAAGTGGCACAGGTTGCAGAAATCACCTATGGGAGAAGTGA
 AGGAAGAAGGCCCTCATTGAGGCAGAAAAAGTGGCACAGGTTGCAGAAATCACCTATGGGAGAAGTGA
 TGGAGAAGGAGACTGAGAAGAAGATTTAGAAAATTGAGGATGCTGCATTTCTGGCCGGGAGAAGGCAAA
 GGCCGATGCTGAGTGCTACACTGCTCTGAAGATCGCGGAAGCCAATAAGCTCAAGCTGACCCAGAATAC
 CTGCAGCTGATGAAGTACAAGGCTATTGCTTCCAACAGCAAGATTTACTTTGGCAAAGACATCCCCAACA
 TGTTTCATGGACTCCGCAGGCGGCTGGGCAAGCAGTCTGAGGGGCTGAGTGACAAGCTGGGCTTTGGCT
 AGAAGACGAGCCCTAGAGACAGCCACAAAGGATAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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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:	<ol style="list-style-type: none">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_001106088.2 , NP_001099558.1
RefSeq Size:	3247 bp
RefSeq ORF:	1020 bp
Locus ID:	290823
UniProt ID:	B5DEH2
Cytogenetics:	16q12.3
MW:	37.7 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) 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]