

Product datasheet for RN212952

Erlin2 (NM_001106088) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Erlin2 (NM_001106088) Rat Untagged Clone
Tag: Tag Free
Symbol: Erlin2
Synonyms: RGD1309010; Spfh2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN212952 representing NM_001106088
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCAATTGGGAGCAGTTGTGGCTGTGGCTTCCAGTTCTTTGCGCATCTCTTTCTCAGCTGTGC
ACAAGATAGAAGAGGGACATATCGGAGTATATTACAGAGGTGGTGCCTGCTGACCTCCACCAGTGGCC
AGGTTTCCATCTCATGCTCCCGTTCATCACATCCTACAAGTCTGTACAGACCACTCTCCAAACGGATGAA
GTGAAGAACGTACCATGCGGAACCAAGTGGTGGTGTGATGATCTACTTTGACAGAATTGAAGTGGTGAAC
TCTGGTCCCACATGCAGTGTATGATATAGTGAAGAACTATACTGCAGACTATGACAAGGCCCTCATCTT
CAACAAGATTCATCATGAGCTTAACCAGTTCTGCAGCGTCCATACACTTCAGGAAGTCTATATCGAGCTG
TTTGATCAAAATCGATGAAAACCTCAAAATGGCTTTGCAGCAGGACCTGACCTCCATGGCCCTGGGCTTG
TTATCCAAGCTGTACGAGTGACAAAGCCCAACATCCCTGAGGCAATCCGCAGGAATATGAGTTGATGGA
AAGCGAGAAGACGAAGCTTCTCATTGCGGCCAGAAAAGTGGCACAGGTTGCAGAAATCACCTATGGCAGAAGTGA
TGGAGAAGGAGACTGAGAAGAAGATTTAGAAAATGAGGATGCTGCATTTCTGGCCGGGAAAGGCAAA
GGCCGATGCTGAGTGTACACTGCTCTGAAGATCGCGGAAGCCAATAAGCTCAAGCTGACCCCAAGATAC
CTGCAGCTGATGAAGTACAAGGCTATTGCTTCCAACAGCAAGATTTACTTTGGCAAAGACATCCCCAACA
TGTTTCATGGACTCCGCAGGCGGCTGGCAAGCAGTCTGAGGGGCTGAGTGACAAGCTGGCTTTGGCT
AGAAGACGAGCCCTAGAGACAGCCACAAGGATAAT**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001106088



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Insert Size:	1020 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001106088.2</u> , <u>NP_001099558.1</u>
RefSeq Size:	3247 bp
RefSeq ORF:	1020 bp
Locus ID:	290823
UniProt ID:	<u>B5DEH2</u>
Cytogenetics:	16q12.3
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]