

Product datasheet for **SC116080**

ERLIN1 (NM_006459) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERLIN1 (NM_006459) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERLIN1
Synonyms:	C10orf69; Erlin-1; KE04; KEO4; SPFH1; SPG62
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116080 sequence for NM_006459 edited (data generated by NextGen Sequencing)

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ATGAATGACTCAAGCCCGGGTTCGGTGGCTGCAGTGGTGGGGTTGGTGGCTGCCTG
CTCTACGCCTCCATCCACAAGATTGAGGAGGGCCATCTGGCTGTGACTACAGGGGAGGA
GCTTTACTAACTAGCCCCAGTGACCAGGCTATCATATCATGTTGCCTTTCATTACTACG
TTCAGATCTGTGCAGACAACACTACAACTGATGAAGTAAAAATGTGCCTTGTGGAACA
AGTGGTGGGGTCATGATCTATATTGACCGAATAGAAGTGGTTAATATGTTGGCTCCTTAT
GCAGTGGTTTGATATCGTGAGGAATACTGCAGATTATGACAAGACCTAATCTTCAAT
AAAATCCACCATGAGCTGAACCAGTTCTGCAGTGCCACACACTTCAGGAAGTTTACATT
GAATTGTTTGATCAAATAGATGAAAACCTGAAGCAAGCTCTGCAGAAAGACTTAAACCTC
ATGGCCCCAGGTCTCACTATACAGGCTGTGCGTGTACAAAACCCAAAATCCCAGAAGCC
ATAAGAAGAAATTTGAGTTAATGGAGGCTGAGAAGACAAAACCTCTTATAGCTGCACAG
AAACAAAAGGTTGTGAAAAAGAAGCTGAGACAGAGAGGAAAAAGGCAGTTATAGAAGCA
GAGAAGATTGCACAAGTGGCAAAAATTCGGTTTCAGCAGAAAAGTATGAAAAAGAACT
GAAAAGCGCATTCTGAAATCGAAGATGCTGCATTCTGGCCCCGAGAGAAAGCGAAAGCA
GATGCTGAATATTATGCTGCACACAAATATGCCACCTCAAACAAGCACAAGTTGACCCCG
GAATATCTGGAGCTCAAAAAGTACCAGGCCGTTGCTTCTAACAGTAAGATCTATTTTGGC
AGCAACATCCCTAACATGTTTCGTGGACTCCTCATGTGCTTTGAAATATTCAGATATTAGG
ACTGGAAGAGAAAAGCTCACTCCCCTCTAAGGAGGCTCTTGAACCTCTGGAGAGAAGTC
ATCCAAAACAAAAGAGACAGGTTGA

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Clone variation with respect to NM_006459.3
871 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006459 unedited AGGATTTTGTAAACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGGCTGCACGT GCGGGCGGGGCGATGCGTCACTGATCGGAGGAACGAGAATGAATATGACTCAAGCCCGG GTTCTGGTGGCTGCAGTGGTGGGTTGGTGGCTGTCTGCTCTACGCCTCCATCCACAAG ATTGAGGAGGGCCATCTGGCTGTGACTACAGGGGAGGAGCTTTACTAACTAGCCCCAGT GGACCAGGCTATCATATCATGTTGCCTTTCATTACTACGTTTCAGATCTGTGCAGACAACA CTACAAACTGATGAAGTTAAAAATGTGCCTTGTGGAACAAGTGGTGGGGTCATGATCTAT ATTGACCGAATAGAAGTGGTTAATATGTTGGCTCCTTATGCAGTGTGGATATCGTGAGG AACTATACTGCAGATTATGACAAGACCTTAATCTTCAATAAAAATCCACCATGAGCTGAAC CAGTTCTGCAGTGCCACACACTTCAGGAAGTTTACATTGAATTGTTTATCAAATAGAT GAAAACCTGAAGCAAGCTCTGCAGAAAGACTTAAACCTCATGGCCCCAGGTCTCACTATA CAGGCTGTGCGTGTACAAAACCCAAAATCCCAGAAGCCATAAGAAGAAATTTTGAGTTA ATGGAGGCTGAGAAGACAAAACCTTATAGCTGCACAGAAAACAAAAGGTTGTGGAAAAA GAAGCTGAGACAGAGAGGAAAAAGGCAGTTATAGAAGCAGAGAAGATTGCACAAGTGGA AANATTCGGTTTCAGCAGAAAGTATGAAAAAGAACTGANAGCGCATTCTGAAATCGA GATGCTGCATTCTGGCCGAGAGAAAACGAAAGCAGATGCTGAATATTATGCTGCACACA NATATGCCACCCTCAACAAGCACAGNTGACCCCCGNATATCTGNAGCTCAAAGTACCC AGCCCGTGCTTCTACAAGTAGATCTATTA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006459 unedited CAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGGATAGTAAAATAATTTTATTTAGTTTC TTATTTTAAAAAGGTAGCATTTCAACATATAAATTTAGACTCAAGATTACAGTGTATAT TTGCCAAAAGGAACACCCGAAAGACGGCCAGCCTCAGAGCTGAGAGGGCACAGGGAGGC ACACTCCTCACACATGGGAGTTTAAAGCAGAAGTCTTAAAGACTTCACAGCGGCATTTCC CTGTTCTCAGCCCCGCCTCCAGGGCCATCACTTTGGGGCAACAGCTTTTGTCTATGTAA CTATAAACATCTCTAGGAATGAAAGCACAGAGGTCAATGATCCAGATTTTCCACAACAA TCATCTGCAGCAACAATTCGACAGGTAAGATTTTATTTTATAAATTCAAAAGTTCTTTT AAGGAGAACTAAAGAACAAAAATTCATTTATAAAGAGAAATTTATAGAATTAATGAGCA AAAATGAAAAATTTTCTCCATATTACAAATGCCTCTATAGGATAAGGCCAGGGGAA AGACCCATTCAAATCTGGGCTTTCCCTTTCCAAATAAAGTGTGGCACAACCAACAAC TGTCATGAGACTGACAGGCCTGACAGCTGAAAGATTTCTAGAAGTGGTCCCATGACTNNT TTGTTGAGCTTCAACATAGCGTACACAAGAGTTGTCTTAAACAGCTGCACANACTCAGGC CCGACTACGCAGCACACTGCTCCAGAAAAGTAACTGAAGGAAAAAAGGTNCACATNGAG TAGGTCTCCTATGCCACAGTAACTCTNGTGTTCTCATGGAANATAAATCACTGGCTGCC CAGACGTCAGTGGATCCTGNATCTCTGGGGGAGTGACAGCTGGAGAACAACCTGGNATTNA GCATCTCTGGGCAGTGGGAAGAGACATGATGACAGGNTGCTTCTAGTGACTTTTTGTCC ACTTGTGGCTCAGAAACATCTAGGACATCGGTGCTGGACAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006459
Insert Size:	3630 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:

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_006459.2](#), [NP_006450.1](#)

RefSeq Size: 3115 bp

RefSeq ORF: 1041 bp

Locus ID: 10613

UniProt ID: [O75477](#)

Cytogenetics: 10q24.31

Domains: Band_7

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is part of a protein complex that mediates degradation of inositol 1,4,5-trisphosphate receptors in the endoplasmic reticulum. The encoded protein also binds cholesterol and regulates the SREBP signaling pathway, which promotes cellular cholesterol homeostasis. Defects in this gene have been associated with spastic paraplegia 62. [provided by RefSeq, Dec 2016]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1-6 all encode the same isoform (a).