

Product datasheet for **SC322528**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322528
 CGCTCCCAGGAGGAACGAGAATGAATATGACTCAAGCCCGGGTCTGGTGGCTGCAGTGG
 TGGGGTTGGTGGCTGTCTGCTCTACGCCTCCATCCACAAGATTGAGGAGGGCCATCTGG
 CTGTGTACTACAGGGGAGGAGCTTTACTAACTAGCCCCAGTGGACCAGGCTATCATATCA
 TGTTCCTTTTACTACTACGTTTACAGATCTGTGCAGACAACACTACAACTGATGAAGTTA
 AAAATGTGCCTTGTGGAACAAGTGGTGGGGTCATGATCTATATTGACCGAATAGAAGTGG
 TTAATATGTTGGCTCCTTATGCAGTGGTTGATATCGTGAGGAACATACTGCAGATTATG
 ACAAGACCTTAATCTTCAATAAAATCCACCATGAGCTGAACCAAGTTCTGCAGTGGCCACA
 CACTTCAGGAAGTTTACATTGAATTGTTTATCAAAATAGATGAAAACCTGAAGCAAGCTC
 TGCAGAAAAGACTTAAACCTCATGGCCCCAGGTCTCACTATACAGGCTGTGCGTGTACAA
 AACCCAAAATCCCAGAAGCCATAAGAAGAAATTTTGGATTAATGGAGGCTGAGAAGACAA
 AACTCCTTATAGCTGCACAGAAAACAAAAGTTGTGGAAAAAGAAGCTGAGACAGAGAGGA
 AAAAGGCAGTTATAGAAGCAGAGAAGATTGCACAAGTGGCAAAAATTCGGTTTCAGCAGA
 AAGTGATGAAAAAGAACTGAAAAGCGCATTCTGAAATCGAAGATGCTGCATTCTCTGG
 CCCGAGAGAAAAGCGAAAGCAGATGCTGAATATTATGCTGCACACAAAATATGCCACCTCAA
 ACAAGCACAAGTTGACCCCGAATATCTGGAGCTCAAAAAGTACCAGGCCATTGCTTCTA
 ACAGTAAGATCTATTTTGGCAGCAACATCCCTAACATGTTTCGTGGACTCCTCATGTGCTT
 TGAAATATTCAGATATTAGGACTGGAAGAGAAAAGCTCACTCCCCTCTAAGGAGGCTCTTG
 AACCTCTGGAGAGAACGTCATCCAAAACAAGAGAGCACAGGTTGATGCAAGAGGTGGA
 AATGTTCTCCATATCAAGATGTGGCCCAAGGGTTAAGTGGGAACAATCATTATACGGAC
 TCTTCAGATTTACAGAGAACTTACACTTTCATCTGTTCCACCTCTCTGCGATAGTCTGG
 GTGCTCCACTGATTGGAGGATAGAGCCAGCTGTCTGACACACAAAATGGTCTTTTCAGCCA
 CAGTCTTATCAAGTATCCTATATGTATTCTTTCTAAACTGCTACTCATGAATGAGGAAA
 GTCTTGCTAAGATACTGCCTGCACTGGAATGTTAAACACTAAATATATAACAAGCTGTGT
 TTTCTAAGCTGAGATCTGTTGAATAATGTTTACATTCGTCACCCCGGGAAATGTATGCT
 CAGCCACCATTCAAGAGATGACTGAGAAGGAGATGGTAAGTTCAAGAAGACTGATTGCAC
 CTGGGACCCAGGCCCTTTCTTTGGGATCCAGTCCAGCCTTCATCCATGTGATTAAGATC



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CAGGCCGCTGAAGTTCCTCCAGGAAATGATCTTCCACTTGAGCAACCTTTTACTTGATACG
 ATTTGCACCTTTCTGTTTTCTGCAGTCAGGGTGGTGGCCTGCAGGGACCTGAGCTTTGC
 TACCCAACCAGATTCTCATAGAGATTCTAATCACTAGTTTTCTGTATTCATAAACTCA
 GAGATACAGAGGGCTTGGTTTTGAAGTTGGGGTGAGATGAAACCTTTGCTCTGAGCCAAAG
 CTCTGGGGCCCTGCATTCCCTGCATTGGGTTGATGACTGTCAGCATCACTGCCGAGGCC
 ATGCTTGACTAAGGTACCTGGTTTTAGCCACAGCCACCTCCTTGTATGTTACCTTTACAG
 TCTGGCCAAGAGTGGGACAGGGTTTTAACCAAAAATAGGAGCAGCATGCAATTCCTAGTG
 ACTTGCTGCACAGTATTGTATCATAAATTACAGGAAGTTTTTATTTTTAAAACCTGGATCTG
 GGGTATATTCATTTGCCCATCACCTCTGTCTAAAGGCCCAAGTCTAGGGCTGCCATGG
 TCACAAGCACACTGATGCTCCTTAAGATTGTTTATCTGGAGCCACATAGTGGAACAA
 AAAGTCACCTAGAAAGCATCCTTGGTCATATTGTCTCCTTCCACCTGGCCAGAGATG
 CTTAAATCCAAGTTGTTTCTCCAGCTGTCACCTCCCCAGGAGATCAGGATTCACCTGAC
 GTCCTGGCAGCCAGTGAATTTAATTTCCATGAGAAACAACAGAGTTAACCTGTGGCAT
 TAGGAGACCTACTTCATGTGGACCCTTTTTTCCCTTCCAGTTAACTTTTCTGGAGCAGTG
 TGCTGCGTAGTTGGCCCTGAGTTTGTGCAGCTTGTAAAGACAACCTTGTGTACGCTATG
 TTGAAGCTCAACAAAAAGTCATGGGACCACTTCTAGAAATCTTTTCCAGCTGTCAGGCCTG
 TCAGTCTCATGACAGTTTGTGGTTGTGCCAAACACTTTATTTGGGAAAGGAAAGCCAG
 ATTTGAATGGGTCTTTCCCTGGGCCTTATCCTATAGAGGCATTTGTAATATGGAGAAAA
 TAATTTTTCATTTTTGCTCATTTAATTTCTATAAATTTCTTTTATAAATGAATTTTGTGT
 CTTTAGTTCTCCTTAAAAGAAGCTTTTGAATTATAAAAAATAAACTTTTACCTGTCGAATT
 GTTGTGCAGATGATTGTTGTGGAAAATCTGGATCATTGACCTCTGTGCTTTTCATTCTTA
 GAGATGTTTTATAGTTACATGAGCAAAAAGCTGTGCCCCAAAGTATGGCCCTGGAGGCC
 GGGCTGAGGAACAGGAAAATGCCGCTGTGAAGTCTTAAAGCACTTCTGCTTAAACTCCAT
 GTGTGAGGAGTGTGCCCTCCCTGTGCCCTCTCAGCTCTGAGGCTGGCCGTCTTTTCGGGGT
 TTCTTTTGGCAAAATACACTGTAATCTTGTAGTCTAAATTTATATGTTGAAATGCTACC
 TTTTTTAAAATAAGAACTAAATAAATTTATTTTACTATCAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_006459
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).