

## Product datasheet for **SC316728**

### ERLIN1 (NM\_001100626) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ERLIN1 (NM_001100626) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERLIN1
Synonyms:	C10orf69; Erlin-1; KE04; KEO4; SPFH1; SPG62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316728 representing NM_001100626. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATATGACTCAAGCCCGGGTCTGGTGGCTGCAGTGGTGGGGTTGGTGGCTGTCTGCTCTACGCC
TCCATCCACAAGATTGAGGAGGGCCATCTGGCTGTGTACTACAGGGGAGGAGCTTTACTAACTAGCCCC
AGTGGACCAGGCTATCATATCATGTTGCCTTTCATTACTACGTTTCAGATCTGTGCAGACAACACTACAA
ACTGATGAAGTAAAAATGTGCCTTGTGGAACAAGTGGTGGGTCATGATCTATATTGACCGAATAGAA
GTGGTTAATATGTTGGCTCCTTATGCAGTGTGATATCGTGAGGAACTATACTGCAGATTATGACAAG
ACCTTAATCTTCAATAAAATCCACCATGAGCTGAACCAGTCTGCAGTGCCACACACTTCAGGAAGTT
TACATTGAATTGTTTATGATCAAATAGATGAAAACCTGAAGCAAGCTCTGCAGAAAGACTTAAACCTCATG
GCCCCAGGTCTCACTATACAGGCTGTGCGTGTACAAAACCCAAAATCCCAGAAGCCATAAAGAAGAAAT
TTTGAGTTAATGGAGGCTGAGAAGACAAAACCTCTATAGCTGCACAGAAAACAAAAGTTGTGAAAAA
GAAGCTGAGACAGAGAGGAAAAAGGCAGTTATAGAAGCAGAGAAGATTGCACAAGTGCAAAAATTCGG
TTTCAGCAGAAAGTGATGGAAAAAGAACTGAAAAGCGCATTCTGAAATCGAAGATGCTGCATTCTCTG
GCCCGAGAGAAAGCGAAAGCAGATGCTGAATATTATGCTGCACACAAATATGCCACCTCAAACAAGCAC
AAGTTGACCCCGGAATATCTGGAGCTCAAAAAGTACCAGGCCATTGCTTCAACAGTAAGATCTATTTT
GGCAGCAACATCCCTAACATGTTTCGTGGACTCCTCATGTGCTTTGAAATATTCAGATATTAGGACTGGA
AGAGAAAAGCTCACTCCCCTCTAAGGAGGCTCTGAACCCTCTGGAGAGAACGTCATCCAAAACAAAGAG
AGCACAGGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001100626



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<b>Insert Size:</b>	1047 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001100626.1</a></u>
<b>RefSeq Size:</b>	3206 bp
<b>RefSeq ORF:</b>	1047 bp
<b>Locus ID:</b>	10613
<b>UniProt ID:</b>	<u><a href="#">O75477</a></u>
<b>Cytogenetics:</b>	10q24.31
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	39.2 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in its 5' UTR compared to variant 1. Variants 1-6 all encode the same isoform (a).</p>