

Product datasheet for **RG222216**

ERLIN1 (NM_001100626) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERLIN1 (NM_001100626) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERLIN1
Synonyms:	C10orf69; Erlin-1; KE04; KEO4; SPFH1; SPG62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222216 representing NM_001100626 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGACTCAAGCCCGGTTCTGGTGGCTGCAGTGGTGGGGTTGGTGGCTGTCTGCTCTACGCC
CCATCCACAAGATTGAGGAGGGCCATCTGGCTGTGACTACAGGGGAGGAGCTTTACTAACTAGCCCCAG
TGGACCAGGCTATCATATCATGTTGCCTTTCTACTACGTTGATCTGTGCAGACAACACTACAACT
GATGAAGTAAAAATGTGCTTGTGGAACAAGTGGTGGGGTTCATGATCTATATTGACCGAATAGAAGTGG
TTAATATGTTGGCTCCTTATGCAGTGGTGGTATCGTGAGGAACATACTGCAGATTATGACAAGACCTT
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GTCTCACTATACAGGCTGTGCGTGTACAAAACCCAAAATCCCAGAAAGCCATAAGAAGAAATTTTGGATT
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AAGTGTGGAAAAAGAACTGAAAAGCGCATTCTGAAATCGAAGATGCTGCATTCTGGCCCGAGAGAA
AGCGAAAGCAGATGCTGAATATTATGCTGCACACAAAATGCCACCTCAAACAAGCACAAGTTGACCCCG
GAATATCTGGAGCTCAAAAAGTACCAGGCCATTGCTTCTAACAGTAAGATCTATTTGGCAGCAACATCC
CTAACATGTTTCGTGGACTCCTCATGTGCTTTGAAATATTAGATATTAGGACTGGAAGAGAAAGCTCACT
CCCTCTAAGGAGGCTCTTGAACCTCTGGAGAGAACGTCATCCAAAACAAAGAGAGCACAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222216 representing NM_001100626
 Red=Cloning site Green=Tags(s)

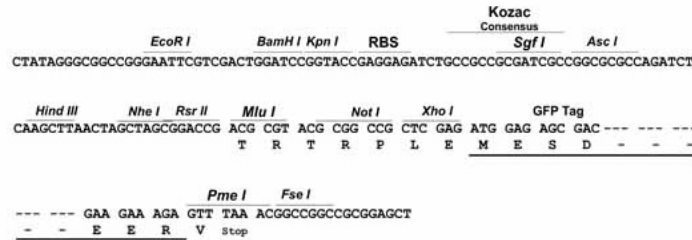
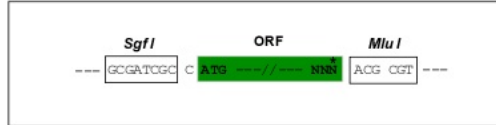
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 DEVKNVPCGTSSGVMIYIDRIEVNMLAPYAVFDIVRNYTADYDKTLIFNKIHHELNQFCSAHTLQEVYI
 ELFDQIDENLKQALQKDLNLMAPGLTIQAVRVTKPKIPEAIRRFELMEAEKTKLLIAAQKQKVVEKEAE
 TERKKAVIEAEKIAQVAKIRFQQKVMKEKETEKRISEIEDAAFLAREKAKADA EYAAHKYATSNKHKLTP
 EYLELKKYQAIASNSKIYFGSNIPNMFVDS SALKYSDIRTGRESSLPSKEALEPSGENVIQNKESTG

TRTRPLE - GFP Tag - V

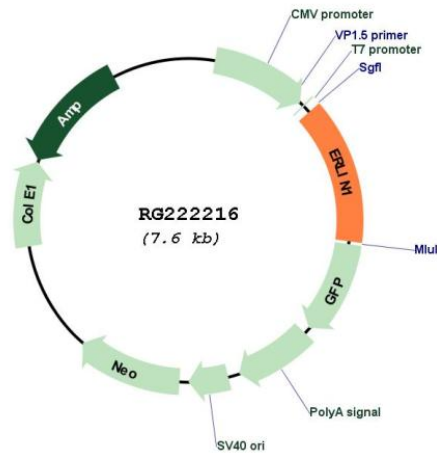
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001100626

ORF Size: 1044 bp

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_001100626.2
RefSeq Size:	3206 bp
RefSeq ORF:	1047 bp
Locus ID:	10613
UniProt ID:	O75477
Cytogenetics:	10q24.31
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]