

Product datasheet for **RG221700**

SPFH2 (ERLIN2) (NM_007175) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPFH2 (ERLIN2) (NM_007175) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERLIN2
Synonyms:	C8orf2; Erlin-2; NET32; SPFH2; SPG18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221700 representing NM_007175 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGTTGGGAGCAGTTGTGGCTGTGGCTTCCAGTTTCTTTTGTGCATCTCTTCTCAGCTGTGC
ACAAGATAGAAGAGGGACATATTGGGGTATATTACAGAGGCGGTGCCCTGCTGACTTCGACCAGCGGCC
TGGTTTCCATCTCATGCTCCCTTTCATCACATCATATAAGTCTGTGCAGACCACACTCCAGACAGATGAG
GTGAAGAATGTACCTTGTGGACTAGTGGTGGTGTGATGATCTACTTTGACAGAATTGAAGTGGTGAAC
TCCTGGTCCCGAACGCAGTGTATGATATAGTGAAGAACTATACTGCTGACTATGACAAGGCCCTCATCTT
CAACAAGATCCACCACGAACTGAACCAAGTTCGCAAGTGTGCACACGCTTCAAGAGGTCTACATTGAGCTG
TTTGATCAGATTGATGAAAATCTCAAAGTGGCTTTGCAACAGGACCTGACCTCCATGGCCCTGGGCTGG
TCATTCAAGCTGTGCGGGTAACAAAGCCCAACATACCAGAGGCAATCCGCAGAAACTACGAGTTGATGGA
AAGTGAGAAGACAAAGCTTCTCATTGCCGCCAGAAAACAGAAAGGTGGTGGAAAAGGAAGCAGAGACAGAG
CGGAAGAAGGCGCTCATTGAGGCAGAAAAGTGGCCAGGTGGCTGAGATCACCTACGGGCAGAAGGTGA
TGGAGAAGGAGACTGAGAAGAAGATTCAGAAAATTGAAGATGCTGCATTTCTGGCCCGGGAGAAGGCAAA
GGCAGATGCTGAGTGCTACACTGCTATGAAAATAGCCGAAGCCAATAAGCTGAAGCTAACCCTGAATAT
CTGCAGCTGATGAAGTACAAGGCCATTGCTTCCAACAGCAAGATTTACTTTGGCAAGACATTCTTAACA
TGTTTCATGGACTCTGCGGGCAGTGTGAGCAAGCAGTTTGGAGGGCTAGCTGACAAGCTAAGCTTTGGCTT
AGAAGATGAACCCTTGGAGACGGCCACTAAGGAGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221700 representing NM_007175
 Red=Cloning site Green=Tags(s)

MAQLGAVVAVASSFFCASLFSVHKIEEGHIGVYRGGALLTSTSGPGFHLMLPFITSYKSVQTTLTQDE
 VKNVPCGTSGGVMIFYDRIEVNFLVFNNAVYDIVKNYADYDKALIFNKIHHELNQFCSVHTLQEVYIEL
 FDQIDENLKLALQQDLTSMAPGLVIQAVRVTKPNIPEAIRRNVELMESEKTKLLIAAQKQKVVEKEAETE
 RKKALIEAEKVAQVAEITYGQKVMKEKETEKKISEIEDAAFLAREKAKADAECYAMKIAEANKLKLTP
 LQLMKYKAIASNSKIYFGKDIPNMFMSAGSVSKQFEGGLADKLSFGLEDEPLETATKEN

TRTRPLE - GFP Tag - V

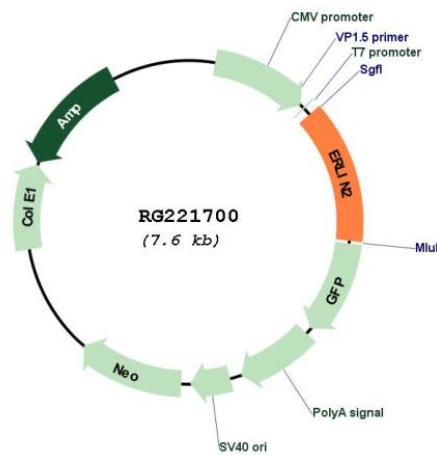
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_007175

ORF Size: 1017 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_007175.8
RefSeq Size:	4836 bp
RefSeq ORF:	1020 bp
Locus ID:	11160
UniProt ID:	O94905
Cytogenetics:	8p11.23
Domains:	Band_7
Gene Summary:	<p>This gene encodes a member of the SPFH domain-containing family of lipid raft-associated proteins. The encoded protein is localized to lipid rafts of the endoplasmic reticulum and plays a critical role in inositol 1,4,5-trisphosphate (IP3) signaling by mediating ER-associated degradation of activated IP3 receptors. Mutations in this gene are a cause of spastic paraplegia-18 (SPG18). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]</p>