

## Product datasheet for **RG221757**

### SPFH2 (ERLIN2) (NM\_001003790) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SPFH2 (ERLIN2) (NM\_001003790) 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:** >RG221757 representing NM\_001003790  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAGTTGGGAGCAGTTGTGGCTGTGGCTTCCAGTTTCTTTTGTGCATCTCTTCTCAGCTGTGC  
ACAAGATAGAAGAGGGACATATTGGGGTATATTACAGAGCGGTGCCCTGCTGACTTCGACCAGCGGCC  
TGGTTTCCATCTCATGCTCCCTTTCATCACATCATATAAGTCTGTGCAGACCACACTCCAGACAGATGAG  
GTGAAGAATGTACCTTGTGGACTAGTGGTGGTGTGATGATCTACTTTGACAGAATTGAAGTGGTGA  
TCCTGGTCCCAGCAGTGTATGATATAGTGAAGAACTATACTGCTGACTATGACAAGGCCCTCATCTT  
CAACAAGATCCACCACGAAGTGAACAGTCTGCAGTGTGCACACGCTTCAAGAGGTCTACATTGAGCTG  
TTTGACTGAAAATGATTTTTCCAGGAATCTTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG221757 representing NM\_001003790  
Red=Cloning site Green=Tags(s)

MAQLGAVVAVASSFFCASLFSAVHKIEEGHIGVYYRGGALLTSTSGPGFHLMLPFITSYKSVQTTLQTD  
VKNVPCGTSGGVMYFDRIEVVNFVLPNAVYDIVKNYADYDKALIFNKIHHELNQFCSVHTLQEVYIEL  
FGLNDFSQESS

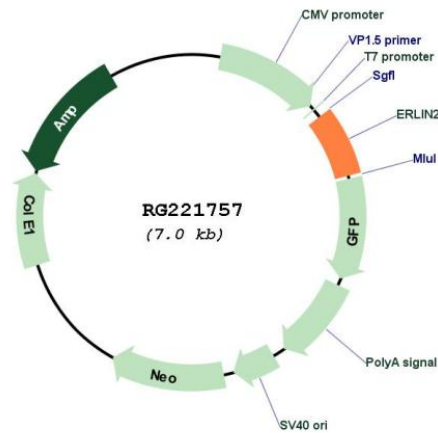
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001003790

**ORF Size:** 456 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.

<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>NM_001003790.4</u>
<b>RefSeq Size:</b>	1744 bp
<b>RefSeq ORF:</b>	459 bp
<b>Locus ID:</b>	11160
<b>UniProt ID:</b>	<u>O94905</u>
<b>Cytogenetics:</b>	8p11.23
<b>Gene Summary:</b>	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]