

Product datasheet for SC115663

SPFH2 (ERLIN2) (NM_007175) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPFH2 (ERLIN2) (NM_007175) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPFH2
Synonyms:	C8orf2; Erlin-2; NET32; SPFH2; SPG18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115663 sequence for NM_007175 edited (data generated by NextGen Sequencing)

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ATGGCTCAGTTGGGAGCAGTTGTGGCTGTGGCTTCCAGTTTCTTTTGTGCATCTCTCTTC
TCAGCTGTGCACAAGATAGAAGAGGGACATATTGGGGTATATTACAGAGCGGTGCCCTG
CTGACTTCGACCAGCGGCCCTGGTTTCCATCTCATGCTCCCTTTCATCACATCATATAAG
TCTGTGCAGACCACACTCCAGACAGATGAGGTGAAGAATGTACCTTGTGGGACTAGTGGT
GGTGTGATGATCTACTTTGACAGAATTGAAGTGGTGAACCTCCTGGTCCCGAACGCAGTG
TATGATATAGTGAAGAACTATACTGCTGACTATGACAAGGCCCTCATCTTCAACAAGATC
CACCACGAACTGAACCAGTTCTGCAGTGTGCACACGCTTCAAGAGGTCTACATTGAGCTG
TTTGATCAGATTGATGAAAATCTCAAAGTGGCTTTGCAACAGGACCTGACCTCCATGGCC
CCTGGGCTGGTCATTCAAGCTGTGCGGGTAACAAAGCCCAACATACCAGAGGCAATCCGC
AGAAACTACGAGTTGATGGAAAGTGAGAAGACAAAGCTTCTCATTGCCGCCAGAAAACAG
AAGGTGGTGGAAAAGGAAGCAGAGACAGAGCGGAAGAAGGCGCTCATTGAGGCAGAAAAA
GTGGCCCAGGTGGCTGAGATCACCTACGGGCAGAAAGGTGATGGAGAAGGAGACTGAGAAG
AAGATTCAGAAAATTGAAGATGCTGCAATTTCTGGCCCGGAGAAGGCAAAGGCAGATGCT
GAGTGCTACACTGCTATGAAAATAGCCGAAGCCAATAAGCTGAAGCTAACCCCTGAATAT
CTGCAGCTGATGAAGTACAAGGCCATTGCTTCCAACAGCAAGATTTACTTTGGCAAAGAC
ATTCTAACATGTTTCATGGACTCTGCGGGCAGTGTGAGCAAGCAGTTTGAGGGGCTAGCT
GACAAGCTAAGCTTTGGCTTAGAAGATGAACCTTGGAGACGGCCACTAAGGAGAATTGA

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Clone variation with respect to NM_007175.6



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_007175 unedited TACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGAATAGGCAGAGGAGCGCCTGCA GGGACAGCCTGGATAAAGGCTCACTGATGGCTCAGTTGGGAGCAGTTGTGGCTGTGGCTT CCAGTTTCTTTTGTGCATCTCTCTTCTCAGCTGTGCACAAGATAGAAGAGGGACATATTG GGGTATATTACAGAGGCGGTGCCCTGCTGACTTCGACCAGCGCCCTGGTTTCCATCTCA TGCTCCCTTTCATCACATCATATAAGTCTGTGCAGACCACACTCCAGACAGATGAGGTGA AGAAATGTACCTTGTGGACTAGTGGTGGTGTGATGATCTACTTTGACAGAATTGAAGTGG TGAATTCCTGGTCCCGAACGCAGTGTATGATATAGTGAAGAATACTGCTGACTATG ACAAGGCCCTCATCTTCAACAAGATCCACCACGAACTGAACCAGTTCTGCAGTGTGCACA CGCTTCAAGAGGTCTACATTGAGCTGTTTATCAGATTGATGAAAATCTCAAAGTGGCTT TGCAACAGGACCTGACCTCCATGGCCCCTGNGCTGGTCATTCAAGCTGTGCGGGTAACAA AGCCCAACATAACCAGAGGCAATCCGCAGAACTACGAGTTGATGGAAAGTGAAGAAGCAA AGCTTCTCATTGCCCGCCAGAAACAGAAGTGGTGGGAAAGGAAGCAGAGACAGAGCGGA AGAAGGCGCTCATTGANGCAGAAAAAGTCCCCAGTGGCTGAAATCACCTACNGGCANAA AGTGATGGAGAAAGAGACTGANAANAANATTTCANNAATTGAAGATGCTGCATTTNCTGG CCCGGGAGAAGGCAAGGCAGATGCTGAGTGTACTGCTATGAAATAGCCCGAGCCATA ACTGAAGCTAACCCCTTGATTCTGCACTGATGAGTCCAAGGCCCTTGTCTCACGGCAGATT ACTTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_007175 unedited GCCTTTAGCTTGNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTACA CTTCTGCAAAGTTAATGAAGTGAGAAAACATTCAACCACGGCGATTTTTCTTGAAAA CCCTACAAAAACTGAATTTTATAACCAGTTACTTACTTCGCAAGATGTTCCATTTATAAA TAGTAGCCATTACTTCACTGTCTACAAAATTGCAGGCTGTACATTTTACATGTCCACACA ATTCAAATGTTTTAAGATTAGATTTTCTAGTAACAGCCAAAATAAAACCAAAGTCTACAC ACACAGGTTAGTTGTCCTATGCAAATAAACAGTCGATTCTCATGATTTTCGCTACTCCGA CCGATCACAGACCCCCCTCGCTCTGCACACTAATGGGTAGGACACCCCATTTCTTGCTC AAAGAGCGACACGCTCCCCCTCGGCGCGCGCTACTCCCACCAGACTCGACCTTCACTG CCGCCCCCTGCCGCCCTGGGCACCGTCCATGCCCCCATCCCCGCATCCGCTTC CCCGCCATCACCTCACCTCCATCGCTTTTCTTAAACCAACTGTCCCTCCATTCTGT TTCCCTCCCCCTCCCGCGCTCACCTGGCCCCGCTCCCTGCATTCTTATTGTTCCCTAT CCCCATCCCCCTCATGGATCTTCCACTCACCTCCTTTACCATCGTCCGCCCTATC CGCCCATCGTCTTCCCCCTCTCACCTATTCCCTTTTACCGCCCAACGGGACTGTCC CCATACCAATTCTCCCTTCCATTGCCTTCCCTCCGCTTCTCCCCCTACCTTTCGCTG TACCGACAACATCTCCGTTCCCTTCGCACCGTCATTCTCCTTCACTTGTTCGCCCCCT CTCTCTNNAATGTCCACACCCGCTATATTGCTCCTTCTCCTTATCCCCCACACCCAC ACTTCTCTACTCCGTACACCCACATCCCTTCTCCGATTCCTTAGCGACATCCCACCTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_007175
Insert Size:	4000 bp
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).
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_007175.5](#), [NP_009106.1](#)

RefSeq Size: 4767 bp

RefSeq ORF: 1020 bp

Locus ID: 11160

UniProt ID: [O94905](#)

Cytogenetics: 8p11.23

Domains: Band_7

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.