

## Product datasheet for **SC327719**

### SPG11 (NM\_001160227) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPG11 (NM_001160227) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPG11
Synonyms:	ALS5; CMT2X; KIAA1840
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001160227, the custom clone sequence may differ by one or more nucleotides

```

ATGGCTGCAGAGGAAGGGGTCGCGAGTGTCTCCGCCGGCTAGCTGGGGCACCCGG
GCCATGGGGCGGGTTCTACCGATGCTGTTGGTGCCAGTCCCGCCGAGGCATGGGGCAG
CTCGGCTCCCGGGCGCAGCTGCGCACACAGCCGGAGGCTCTGGGAGCCTGACGGCTGCG
GGCAGCCTCCAAGTGCTTTCTTTGACGCCTGGCAGCCGGGGCGGGGGTCGCTGCTGCCTG
GAGGGCCCTTCTGGCACTTTCTATGGGAGGATTCTCGTAACAGCAGCACACCAACTGAA
AAGCCAAACTGCTCGCTCTTGGTGAATTTATGAACTGCTTATCTATGAATTTAATTTG
AAAGATGGAAGATGTGATGCAACATTTGTATAGCTGTAGTAGGGAGGCATTGCAAAG
CTCATTGACGATCAAGATATCAGTATTTCTTATTGTCTTTGAGAATCCTGTCATTTTAC
AATAACACATCATTACTGTTTCATCAACAATGTGTCATCTACATATTATATTTCTGAA
AGAGATGCTGCAATTAGAGTACTCAACTGTTTCACACTTCCCTTGCTGCACAGGCAGTG
GACATGATTATTGACACGCAGCTCTGCAGAGGAATCTTTTTGTTTTGAGTAGTTTAGGC
TGGATCTACATTTTTGATGTTGTGGATGGTACATATGTAGCTCATGTGGATTTAGCACTT
CACAAAGAAGACATGTGTAATGAGCAGCAACAGGAGCCAGCCAAGATTTCTTCATTTACT
TCACTGAAAGTTTCTCAAGACCTCGATGTTGCAGTGATTGTCAGCTCCTCCAACCTCCGCA
GTTGCTCTTAACCTAAATTTGATTTTCAGGCAACACCCAGGACACCTACTGTGTGAAAGA
ATACTAGAAGATCTTCTATTCAAGGACCTAAGGGCGTAGATGAAGATGATCCTGTTAAC
TCTGCCTACAACATGAACTGGCCAAGTTTTCTTCCAATTGATAGGCTTTGAAAGCC
CAGCTATCATCATTGAATGAAACAATAAAGAAGCTCCAAACTGGAGGTTTTCTGTTGTGCT
CCATGGTTCCAGGATATTTTGCATTTGGAGTCACTGAATCTGGTAACCCAGTACAAGT
GTGCAGAGCTGGGCCCTTATTCCACAGGACATAATGCATGGGCAATATAATGTTCTACAG
AAAGATCATGCCAAGACCAGTGATCCAGGAAGATCATGGAAAATAATGCACATCAGTGAA
CAAGAGGAACCCATAGAGCTTAAATGTGTGTCTGTGACAGGATTCAGTGCCTGTTTACT
TGGGAAGTGGAAAGGATGGGCTATACCATTACCCTCTGGGATTTGGAGACCCAGGCATG
CAGTGTTTTTCCCTTGGCACAAGTGATTCCTGTAGACAGTAGTGGAGACCAGCAGCTG
TGCTTTGTTTTGACAGAGAATGGACTCTCTGATTTTGTGGTTTACTCAAGAAGAG

```



[View online »](#)

TTTTTAAACAGACTCATGATCCATGGAAGTGCCAGCACTGTGGCACTCTTTGTCACTC  
AATGGCTGGGAAGGTGCTCAATCCCATACATGCACTAGAGGCCGGATAGAAAATCGT  
CAGCTGGACACAGTAAATTTCTTTTTGAAGAGCAAGGAAAATCTTTTAAATCCATCCTCA  
AAATCTTCTGTATCTGATCAGTTTGATCACTTGTATCCCATTTATATTTAAGAAATGTG  
GAAGAGCTGATACCAGCATTGGATTTACTTTGCTCGGCAATTAGAGAAAGTTATTCTGAA  
CCCCAAAGCAAACACTTTTCAGAACAATTGCTTAATCTTACACTGTCTTTCCTTAAACAAC  
CAATAAAGGAGCTTTTCATTACACTGAAGAAGTGAACATCTGCAAAAAGGAGTG  
AACATTTTGACTAGCTACATTAATGAACCTTCAACCTTCATGATAAAGTTTCTTGGGAAG  
CTAACAGATGCTATAGATGAATATGATGTACATGAAAATGTCCCAAAAGTAAAGGAGAGC  
AATATATGGAAGAACTCAGCTTTGAGGAAGTTATTGCCAGCGCCATTTTAAACAACAAA  
ATACCAGAGGCACAGACTTTCTCAGGATTGATAGTCATTCTGCTCAAAAAGTGGAGG  
CTTATTGGCATAGGCCTAAATTTGGTCTTTGACAATTTAAAAAAGAACAATATAAAGGAA  
GCCTCTGAACTTTGAAGAATATGGGGTTGATGTAAAAGGCCAATTGCTCAAGATCTGC  
TTCTATACAACTAATAAAAAATACGTGACTTTTTGGTTGAAATTTTAAAGAAAAAAAT  
TATTTTTCTGAAAAGAGAAAAGAACTATAGACTTCGTGCATCAAGTTGAGAAGCTTTAT  
TTGGGACATTTCCAAGAAAATATGCAAAATCCAGTCATTTCCAGGTAAGTATAAAGGAA  
CAAGATTTTTTCAAGCACAAGTCTGTTTTGGACTCATTCTGAAATATGATTGTAAGAGT  
GAATTTAACAACAGGACCATAGAAATGTGTTAAATTGGGCTCTGTGGTGGGATCAACTA  
ACACAAGAATCCATCCTTCTCCCAGGATAAGTCCAGAAGAATACAAATCATATTTCCCT  
GAAGCCCTCTGGAGATACCTCACAGCTCGCCATGATTGGTTAAACATTATCTTATGGATT  
GGAGAATTTCAAACCCAGCATAGTTATGCTTCACTTCAGCAGAACAATGGCCCTTCTG  
ACTGTTGATGTTATTAACCAGAATACTTCTGTAACTACATGAGGAATGAAATTTTA  
GATACTGGCCAGGAATGGGGTTTTTTTGGCATCTGAACTGGAAGACTTTGAATGCTTC  
CTCCTAAGACTGAGCCGTATTGGAGGTGAATACAGGATACCCTCCCTGTTCAAAAATAC  
AAGACCAAGAAGTTGGGATTTCCATTCTCAATTCATTCTATTGTTGGAGCACAGT  
CTGCAGCATCTTCTTATGTCTACCTTGACTGTTACAACTTAGTCTGAAAATGTCCC  
TTTTTGGAAAAAAGAGTTACATGAAGCACACCCTTGGTTTTGAAATTTTATGTTCAAGTGT  
CGACAAGTTGCCAGTAACTAACAGATCCCAAAGTATCTCCAGGCTAGCCTTGCAAAAT  
GCTCAGATTTTGATTCCCAACATCAGGCCAGTGAAGCAGTATGCTATTGGAAGGACAT  
ACCCTCCTGGCCCTGCTACTACAATGTATTCTCTGGGGGTGTCAGTCAGGTTGTTGAG  
AATGAAGAAAATGAAAAGTGTGTTGAAGAAAGTGGATCCCAGCTATTGAAGATGGCATA  
ACTCCTTACCCCAAGCTAAAACTGCTCTTCCACAGTGCACCTCCTAGTGTCTG  
CCATCTGATATTACAATCTACCACCTTATTGATCATTATCACCCCTTGTATCCTAGCAGA  
TTGTTTGGCTGGCAGTCTGCTAACACACTAGCTATAGGAGATGCATGGAGTCATCTCCCA  
CATTTCTCTAGCCCTGACCTGGTTAATAAATATGCTATAGTGAACGCTGAAATTTGCT  
TATTATTTACATAATGGGCGGCCATCATTTGCATTTGGTACTTTTCTGGTCCAGGAATTA  
ATCAAGAGCAAGACTCCCAAGCAGCTGATCCAGCAAGTAGGCAATGAAGCCTATGTTATA  
GGGCTCTCCTCCTCCACATACCTTCAATAGGAGCTGCATGTGTTGTTTCTTAGAATTG  
CTTGGCCTTGACAGCCTCAAGCTCAGAGTTGATATGAAAGTGGCCAATATAATTTTGAGC  
TACAAGTGCAGAAAATGAAGATGCTCAGTACAGCTTTATCAGAGAGTCTGTAGCCGAAAAA  
CTATCTAAACTAGCTGATGGTGAAGACAACCACAGAAGAAATGCTTGTCTCTTAGAA  
GAAGGTACATGGAACAGCATTACGCAACAGGAAAATAAGAGGTTATCCAGTGAATCTAGC  
AGCCAATGGGCATTAGTGGTGCAGTTCTGCAGGCTACACAATATGAAACTAAGCATATCT  
TACCTTAGAGAATGTGCCAAAGCAAATGATTGGCTGCAGTTCAATTTACAGCCAACTC  
CACAACTACCACCAGCAGAGGTGAAATCCCTTATCCAGTACTTCAGCCAGTCATTCAA  
GACCACCTAAGGCTGGCTTTTGAAGAACTGCCCCTCAGTCCCACCTCAAAAATGGACAGC  
GATCAAGTCTGCAATAAGTGCCCCAGGAACTTCAAGGAAGCAAACAAGAGATGACCGAT  
TTATTTGAAATCTGCTCCAATGCTCAGAGGAGCCAGACTCCTGGCACTGGCTTCTGGTT  
GAAGCAGTGAAACAACAGGCCCTATCCTCAGTGTCTGGCCTCATGTCTCCAGGGTGCC  
AGTGCCATTTCTGTCTGTGTTTGGATCATCACTTCTGTGGAGGACAATGTTGCAACT  
GAAGCAATGGGACACATTCAGGACTCAACAGAGGACCATACCTGGAACCTTGAGGATCTT  
TCAGTCATCTGGAGAACATTTAACAAGACAAAAGAGCAAAAATCTCATCAGAGGTTTC

CAGCTTTTCTTTAAGGATTCCCCGTTACTACTGGTGATGGAGATGTATGAACTGTGTATG  
 TTCTTCAGGAATTATAAAGAAGCTGAAGCTAAACTTCTGGAGTTTCAGAAGAGCCTTGAA  
 ACGCTTAACACAGCAGCCACAAAGGTCCACCCTGTATCCCTGCCATGTGGCTGGAGGAT  
 CAGGTGTGTTTCCCTTTGAAGCTTATGCTACAGCAGTGTAAAGCCAGTATGAGCTGGGG  
 AAGCTTTTACAGCTCTTTGTTGAAAGAGAGCATCTTCTCTGATGGTCCAGATGTGAAA  
 AAGCTTTGCATCCTTTGCCAGATTTTGAAGGATACATCCATAGCCATTAATCATACAATT  
 ATTACCAGCTACAGCATTGAGAATCTTCAGCATGAATGTAGATCTATTTTGGAAAGACTG  
 CAGACAGATGGACAATTCGCTTTGGCCAGGAGGTAGCAGAATTAGCTGAGTTACCTGTG  
 GACAACCTTGTTATTAAGAGATAACACAGGAAATGCAGACCCTAAAACACATTGAACAG  
 TGGTCACTAAAACAAGCAAGAATTGACTTCTGGAAAAATGCCATGAGAATTTTAAGAAA  
 AATTCAATTTCAAGCAAAGCAGCTTCTTCTTTTCTCAACCCAGGCCATGTGGCATGT  
 GAGCACCAACTGGATGGAGCAGCATGGAGGAGCGCCATCTGCTGCTCACCTTGGCAGGG  
 CACTGGCTTGCCAGGAGGACGTGGTGCCTTGGATAAGCTGGAGGAGCTGGAGAAGCAG  
 ATCTGGCTGTGCCGCATACCCAGCACACTCTTGAAGAAATCAGGAGGAAACAGAGCCC  
 AGATTTTCTCGACAGATCTCAACTAGTGGTGAACCTTCTTTGATAGTTTAGCCAGTGAG  
 TTTTCTTCTCCAAGTTGGCTGCTCTGAACACATCAAAATACTTAGAACTTAACAGCCTT  
 CCATCCAAAGAGACATGCGAGAATAGATTGGATTGGAAAGAGCAGGAGTCACTAACTTT  
 TTGATTGGGCGCTACTGGATGATGGCTGTGTGCATGAAGCAAGTAGAGTATGCCGGTAT  
 TTTCAATTTTATAATCCAGATGTGCGCTTGGTATTGCACTGCAGAGCACTGGCCTCAGGG  
 GAAGCTAGTATGGAGGATCTGCACCCAGAGATCCATGCTCTCCTACAAAGTGCTGAGCTG  
 CTTGAGGAAGAAGCACCCGACATTTCCCTAAGGAGAGTCCACAGCAGACATAAGCAGATG  
 TTCAACCCAACAGAGGAAAGCCAGACATTTCTCAGCTGACCACTCTGTGTCAAGACCGC  
 ACATTGGTAGGCATGAAGTTGTTGGATAAGATTTCTCCGTTCCCATGGGGAACCTGTCT  
 TGCACCACAGAGCTCCTGATCCTGGCCCATCATTGCTTACCCTGACGTGCCACATGGAG  
 GGCATCATCCGAGTCTACAGGCCGCCACATGCTCACAGATAACCACCTGGCCCCCAGT  
 GAGGAGTATGGGCTGGTGGTACGGCTCCTCACTGGCATTGGAAGGTACAACGAGATGACA  
 TACATATTTGATTTGCTGCATAAAAAGCACTACTTTGAAGTGCTAATGAGGAAGAAGTTG  
 GATCCGAGTGGTACCCTGAAAACAGCCCTGCTGGACTACATCAAACGCTGCCGCTCTGGA  
 GACAGTAAAAGCACAATATGATTGCCCTGTGCTTACAGCATGTGCCGGGAGATTGGCGAG  
 AACCACGAGGCAGCTGCCCGCATCCAAGTAAAATTGATTGAGTCTCAGCCCTGGGAGGAC  
 AGCCTCAAGGATGGGCACCAGCTGAAACAACCTGCTGCTGAAGGCCCTGACTCTGATGTTG  
 GATGCAGCAGAGAGTTATGCCAAGGACTCCTGTGTGCGACAGGCCAGCACTGTCAGCGG  
 CTCACCAAGTTGATAACTCTGCAGATTCACCTTTCTGAACACTGGCCAGAACAATGCTC  
 ATCAACTTGGGCCGCCACAAGCTGATGGACTGATTCTGGCCCTACCTCGGTTCTACCAG  
 GCTTCTATTGGGCTGAGGCCTACGATTTTGTCCAGATTGGGCTGAAATTTTATACCAG  
 CAAGTGATTCTTAAAGGAGACTTTAATTAATTTGGAAGAATTTAAGCAGCAAAGGTTATTA  
 AAGTCCAGTATATTTGAAGAGATTTCAAAAAATATAAACAACATCAGCCTACTGACATG  
 GTCATGGAAAACCTGAAGAAATTAATCACAATTTGTGAAGATGTTTACCTGTATTACAAG  
 TTGGCATACGAACACAAGTTTTATGAAATTGAAATGTGCTTCTGAAGGACCCTCAGACA  
 GGTTGCTGTCTAAAGGACATGCTAGCAGGT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001160227

**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).

**OTI Annotation:**

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_001160227.1</a></u> , <u><a href="#">NP_001153699.1</a></u>
<b>RefSeq Size:</b>	7478 bp
<b>RefSeq ORF:</b>	6993 bp
<b>Locus ID:</b>	80208
<b>UniProt ID:</b>	<u><a href="#">Q96JL7</a></u>
<b>Cytogenetics:</b>	15q21.1
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a potential transmembrane protein that is phosphorylated upon DNA damage. Defects in this gene are a cause of spastic paraplegia type 11 (SPG11). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]</p> <p>Transcript Variant: This variant (2) lacks two alternate in-frame exons in the 3' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p>