

## Product datasheet for **RN201761**

### **Spg7 (NM\_181388) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Spg7 (NM_181388) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Spg7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN201761 representing NM\_181388  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCGCGTTGCTGCTGCTTCGCGCGCTCCGCCAGAGCCCGGAGCCCGGGCCCTGGCGGCTGTGGG  
 CCCAGCTCTCAGGCAGGAGCCCGGCTTCTCCGGGGCCGGCGGTAGGCGGCCGTACGTAGTCCGTGG  
 GACTCCGATTGGCTGGCTGCGGCTGGAGGCCACACGCCTCAGAGCTTGCTATTGCGAATACTGACCCCT  
 AGCTTTGAAGGTGTAGCGGATTGTTACTGAAACGGCATATAGTTCCAAGTGCAATCAGACTGTGGCAGC  
 TTTCCAGGTAGTACTTTGTATTTAACACCTCAGGGTTGAAGCAGAAGAACAAGATGATGATAAACCCAA  
 AGGCAAAGCCCCGAAGATGACGAAGAAGAGAGGAGGCGGAAGGAGCGGGAAGACCAGATGTACCGGGAG  
 AGGCTGCGCACCTTGTTCATCATCGCCATCGTGATGAGCCTGCTCAACTCCCTCAGCACAAGTGGCGGCA  
 GCATCTCCTGGGCTGACTTCGTCACAGAGATGCTGGCTAAAGGCGAGGTGCAGCGTGTGCAGGTGGTGCC  
 CGAGAGTGATGTGGTGAAGTCTACCTGCATCCAGGAGCTGTGGTGTGGGGCGGCTCGGCTGGCCTTG  
 ATGTACCGGATGCAGGTTGCAAACATCGACAAATTTGAAGAGAAGCTTCGAGCTGCTGAAGATGAACTGA  
 ACATCGAGAGCAAGGACAGGATCCCGTGTCTACAAGCGGACAGGATCTTTGGAAATGCCCTCTATGC  
 CCTGGGGATGACTGCAGTGGGCTTGCCATCCTGTGGTATGTTTTCAGACTGGCTGGGATGACCGGAAGG  
 GAAGGCGGATTAGTGCCTTTAATCAGCTTAAAATGGCGCGCTTACCATCGTGGACGGGAAGACGGGGA  
 AAGGAGTCAGCTTCCAGGATGTGGCGGGAATGCACGAAGCAAGCTGGAAGTCCGAGAGTTTGTGGATTA  
 TCTGAAGAGCCCGGAGCGTTTCCCTCAGCTGGGTGCCAAGGTTCCAAAGGTGCCCTGCTGCTGGGACCC  
 CCTGGTTGTGGGAAGACGCTGTTGGCCAAGGCAGTGGCCACGGAGGCTCAGGTGCCCTTTTACGAATGG  
 CTGGCCCCAGAGTTTGTGGAGGTCATTGGAGGCCGTTGGAGCCCGGAGTGGCAGCCTCTTCAAGGAAGC  
 CCGGGCCAGGGCCCTTGCATTGTGTACATTGATGAGATCGATGCTGTGGGGAAGAAGCGCTCCACCTCC  
 ATGTCCGGGTTCTCCAACACAGAAGAGGAGCAGACCCTCAACCAGCTCCTCGTAGAGATGGACGGAATGG  
 GCACCGCAGACCAGTCACTCGTCTTGGCATCCACCAACCGAGCCGATGCTCCTGGACAACGCTCTGATGAG  
 GCCCGGTGCGCTCGACAGGCACGTCTTCATCGATCTTCCACTCTCCAGGAGAGGCGGGAGATTTTCGAG  
 CAGCACCTGAAAGGCTCAAGTTGACCCAGCCAGCAGTTTTTACTCCAGCGGCTGGCAGAGCTGACTC  
 CTGGATTAGTGGAACTGCTAAAAGAGTAAGATCCTTTCCAAGGAGGAGCAGAGAGTGGTTGCTTTCCA  
 TGAGTCTGGCCATGCCCTGGTTCGGTGGCTGCTGGAACACACGGAGGCTGTGATGAAGGTCTCCATAGCA  
 CCTCGGACAAACGCTGCTCTGGGCTTCTCTCAGATGCTCCCTCGGACCAGTACCTCTTCCAAAGGAGC  
 AGCTGTTTGGAGCGGATGTGCATGGCCCTAGGCGGCGGTGAGCTGAAGCCATCTCATTACAGAGGTCAC  
 CTCTGGGGCCAGGATGATTTGAGGAAGGTTACCCGTATCGCCTACTCCATGGTGAACAGTTTGGGATG  
 GCTCCTAGCATTGGGCCCGTATCCTTCCCTGAGGCACAAGAGGGCCTCGTGGGCATTGGACGCCCTCCCT  
 TCAGCCAGGGTCTCCAGCAGATGATGGACCATGAAGCAAGACTGCTGGTGGCCAGAGCCTACAGACACAC  
 TGAGAAGGTGCTGCTGGACAACCTGGACAAGCTGCAGGCGCTGGCGAATGCCCTTCTGGAAAAGGAAGTG  
 ATAAACTATGAGGACATTGAGGCGCTCATTGGCCCGCCGCCCATGGCCAAAGAAAATGATTGCCACCAC  
 AGAAATGGATTGATGCTGAAAAGGAGAAACAAGCCTCAGGGGAGGAGGAGGCTCCGGCTCCCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_181388

**Insert Size:** 2235 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).

<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_181388.2</a></u> , <u><a href="#">NP_852053.1</a></u>
<b>RefSeq Size:</b>	2479 bp
<b>RefSeq ORF:</b>	2235 bp
<b>Locus ID:</b>	353231
<b>UniProt ID:</b>	<u><a href="#">Q7TT47</a></u>
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	ATP-dependent zinc metalloprotease. Plays a role in the formation and regulation of the mitochondrial permeability transition pore (mPTP) and its proteolytic activity is dispensable for this function (PubMed:26387735).[UniProtKB/Swiss-Prot Function]