

## Product datasheet for **MR219895**

### **Spg7 (NM\_153176) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Spg7 (NM_153176) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spg7
Synonyms:	AI452278; AU015315; Cmar; PGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR219895 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGCCGCTTGTCTGCTTCCGCGGGCTCCGCCCGGCCGGAGCCCGGCCCGACGGCTGTGGG  
GCCTGCTCTCAGGCAGGGGCCAGGCTCTCGTCCGGGGCTGGGGCCAGGCGGCCGTACGCGGCCCGCGG  
GACTCCGGTTGGCCCGGCTGCGGCTGGAGGCCACGCGCCTCAGAGTTTGTATTGCGAATACTGACCCCT  
AGCTTTGAAGGTATTAGCGGATTGTTACTGAAACAGCATATAGTTCCAAATGCAGTCAGACTGTGGCCGC  
TTTCAGGTAGCACTTTGTATTTAACACCTCAAGGATGAAGCAGAAGAATAAAGACAATGATAAACCCAA  
AGGCAAGACCCCTGAAGATGATGAAGAAGAGAAGAGACGAAAAGAGCGGGAAGACCAGATGTACCGAGAG  
AGGCTGCGCACCCCTGTTTCATCATTGCTCTTGTGCATGAGCCTGCTGAACTCCCTCAGTACAAGTGGGGCA  
GTATTTCTGGTCTGACTTTGTCAACGAGATGCTGGCTAAAGGCGAGGTGCAGCGTGTGCAGGTGGTGCC  
CGAGAGTGATGTGGTGAAGTCTATCTGCATCCTGGAGCTGTGGTGTGGGGCGGCTCGGCTGGCCCTG  
ATGTATCGGATGCAGGTTGCAAACATCGACAAATTTGAAGAGAAGCTTCGAGCAGCCGAAGTGAAGTGA  
ACATTGAGAGCAAGGACAGGATCCCGTGTCTACAAGCGGACAGGATCTTTGGGAATGCCCTCTACGC  
CCTGGGGATGACAGCCGTGGGCTTGGCCATCCTGTGGTATGTTTTCAGACTGGCGGGATGACCGGAAGG  
GAAGGCGGATTAGTGTCTTTAATCAGCTTAAGATGGCACGTTTACCATTGTGGACGGGAAGACAGGGA  
AAGGAGTCAGCTTCCAAGATGTGGCAGGAATGCATGAAGCCAAGTGGAAAGTCCGAGAATTTGTGGATTA  
TCTGAAGAGCCCAGAGCGTTTCTTCAGCTCGGTGCCAAGGTTCCAAAGGTTGCCCTGTTGCTGGGGCC  
CCTGGCTGTGGGAAGACGCTGTTGGCCAAGGCAGTAGCCACGGAGGCTCAGGTGCCCTTTTGTAGCAATGG  
CTGGCCAGAGTTTGTGGAGGTGATTGGAGGCTGGGAGCTGCCGAGTCCGAAGCCTCTCAAGGAGGC  
ACGAGCCAGGGCCCTTGCATAGTGTACATTGATGAGATCGATGCTGTGGGAAAGAAGCGTCCACCTCC  
ATGTCTGGGTTCTCCAACACGGAAGAGGAGCAGACCCTCAACCAGCTCCTGGTGGAGATGGACGGAATGG  
GCACCACAGACCATGTCACTCGTCTTGGCATCCACCAATCGAGCTGATGTTCTGGACAATGCTCTGATGAG  
GCCTGGGCGGCTCGACAGGCATGTCTTCAATTGATCTTCCACGCTCCAGGAGAGGCGGGAGATTTTCGAG  
CAGCACCTGAAAGGCTGAAGTTGACCCAGCCAGCAGTTTTTACTCCAGCGGCTGGCAGAGCTGACAC  
CTGGATTAGTGGCGCCGACATCGCCAACATCTGCAACGAGGCCGCTCTGCACGCTGCACGCGAGGGGCA  
CACGTCCTGCACACGTTCAACTTTGAGTATGCCGTGGAGCGGCTCATTGCTGGTACTGCTAAAAAGAGT  
AAGATCCTCTCCAAGGAGGAGCAGAGAGTGGTCGCCTTCCATGAGTCTGGCCATGCCTTGGTTGGTTGGC  
TGCTGGAGCACACAGAGGCTGTGATGAAGTCTCCATCGCACCTCGGACAACGCTGCTTTGGGCTTCTC  
TCAGATGCTCCCTCGGGACCAAGTACCTTTCACCAAGGAGCAGCTGTTTGGAGCGATGTGCATGGCCCTA  
GGTGGCCGTGCAGCTGAAGCCATCTCATTAGCAGGGTCACTCTGGGGCCAGGATGATTTGAGGAAGG  
TTACCCGATTGCTTACTCCATGGTGAACAGTTCGGGATGGCTCCCAGCATTGGGCTGTATCCTTCCC  
CGAGGCACAAGAGGGCCTCATGGCATTGGACGTCGTCCTTTCAGCCAGGGCCTCCAGCAGATGATGGAC  
CATGAAGCAAAGCTGCTGGTGGCCAAAGCCTACAGACACCCGAGAAGGTGCTGCTAGACAACCTGGACA  
AGCTGCAGGCGTTGGCGAATGCCCTTCTGAAAAGGAAGTATAAACTATGAGGACATTGAGGCGCTCAT  
TGGCCCGCCCATGGGCCAAAGAAAATGATTGCACCACAGAAATGGATTGATGCTGAAAAGGAGAGA  
CAGGCCTCAGGGAGGAGGAGGCTCCGGCTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR219895 protein sequence

Red=Cloning site Green=Tags(s)

MAAALLLLRGLRPGPEPRRRLWGLLSGRGPGLSSGAGARRPYAARGTPVGPAAAGGHAPQSLLLRILT  
SFEGISGLLLKQHIVPNAVRLWPLSGSTLYFNTRMKQKNKDNDKPKGKTPEDDEEEKRRKEREDQMYRE  
RLRTLFIIALVMSLLNSLSTSGGSIWSDFVNEMLAKGEVQRVQVVPESDVVEVYLHPGAVVFGPRRAL  
MYRMQVANIDKFEEKLRAAEDELNIESKDRIPVSYKRTGFFGNALYALGMTAVGLAILWYVFRLAGMTGR  
EGGFSAFNQLKMARFTIVDGKTGKGVSFQDVAGMHEAKLEVREFVDYLKSPERFLQLGAKVPGALLLGP  
PGCGKTLAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVRSLFKEARARAPCIVYIDEIDAVGKKRSTS  
MSGFSNTEEEQTLNQLLVEMDGMGTDDHVIVLASTNRADVLDNALMRPGRDRHVFIDLPTLQERREIFE  
QHLKGLKLTQPSSFYSQRLAELTPGFSGADIANICNEAALHAAREGHTSVHTFNFEYAVERVIAGTAKS  
KILSKEEQRVVAFHESGHALVGWLEHTEAVMKVSIAPRTNAALGFSQMLPRDQYLFKEQLFERMCMAL  
GGRAAEAISFSRVTSGAQDDLKRVTRIAYSMVKQFGMAPSIGPVSFPEAQEGLMGIGRRPFSQGLQQMMD  
HEAKLLVAKAYRHTEKVLDDNLKQLALANALLEKEVINYEDIEALIGPPPHGPKKMIAPQKWIDAEKER  
QASGEEEEAPAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-Mlul



**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\\_153176.1](#), [NM\\_153176.2](#), [NM\\_153176.3](#), [NM\\_153176.4](#), [NP\\_694816.3](#)

**RefSeq Size:** 2558 bp

**RefSeq ORF:** 2346 bp

**Locus ID:** 234847

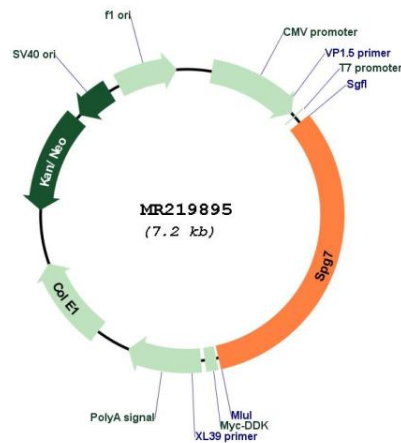
**UniProt ID:** [Q3ULF4](#)

**Cytogenetics:** 8 E1

**MW:** 86 kDa

**Gene Summary:** 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 (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR219895