

Product datasheet for **RC223633A1V**

Human SPG7 (NM_199367) AAV Particle

Product data:

Product Type:	AAV Particles
Tag:	Myc-DDK
Symbol:	SPG7
Synonyms:	CAR; CMAR; PGN; SPG5C
Mammalian Cell	None
Selection:	
Vector:	pAAV-AC-Myc-DDK (PS100089)



ORF Nucleotide Sequence: >RC223633 ORF sequence, **codon optimized**.
Due to the complexity of NM_199367, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCCGTTCTTCTGCTCCTTCTGAGAGCATTGCGCAGGGGCCCCGGACCTGGTCCCCGACCATTGTGGG
GACCAGGTCCAGCTTGGAGCCCTGGTTTTCCCGCTCGCCCTGGGAGGGGTAGACCCTACATGGCCTCCCG
CCCCCGGGAGACTTGGCAGAAGCCGGTGGCAGGGCATTGCAAAGTCTCCAGCTGAGACTGCTGACACCA
ACATTGAGGGAATCAATGGTCTTCTGCTGAAGCAGCACCTGGTCCAGAATCCGGTGC GGCTGTGGCAGC
TCCTCGGGGGACCTTTTATTTTAATACCAGCCGGCTGAAACAAAAGAATAAAGAGAAGGACAAGTCCAA
AGGGAAGGCCCCAGAAGAGGACGAAGAAGAACGGCGCCGCAGAGAGAGGGATGATCAGATGTACAGGGAA
AGACTGCGGACCCTGTTGGTAATTGCGGTGGTTATGTCACTCCTGAACGCCCTGTCCACCAGCGCGGGAT
CTATCTCCTGGAACGATTTCTGTGATGAATGCTTGCTAAAGGGGAGGTGCAGCGGGTGCAGGTAGTTCC
TGAGTCCGACGTGGTGGAGTTTATCTGCACCCCGAGCGGTGGTGTTCGGAAGACCTCGGCTGGCCCTG
ATGTACAGAATGCAAGTGGCTAACATTGATAAGTTCGAGGAGAAGCTGCGGGCTGCTGAGGACGAACCTTA
ATATTGAGGCCAAAGACAGGATACCCGTCAGTTACAAGAGGACCGCTTCTTTGGCAATGCCTGTACTC
AGTGGGCATGACGGCCGTGGGACTGGCCATTTTGTGGTACGTGTTTCGGCTTGTGGAATGACAGGAAGG
GAAGGTGGCTTTTCACTTTCAATCAGCTGAAGATGGCAGGATTACCATCGTGGATGGCAAGATGGGCA
AAGGAGTGAGCTTTAAGGACGTGGCTGGCATGCATGAAGCCAAGCTGGAAGTGC GGGAATTCTGTGACTA
TCTGAAATCCCCGAAAGATTTCTCCAGCTGGGTGCCAAGGTTCTTAAGGGCGCCCTGCTGCTCGGGCCA
CCAGGATGTGGCAAAACGCTGCTGGCAAAAGCCGTGGCCACGGAGGCACAAAGTCCCTTTTCTGGCAATGG
CGGGCCCTGAATTTGTTGAAGTGATTGGCGGCTCGGAGCAGCCCGGGTTAGAAGTTTGTTCAGGAAGC
ACGAGCTCGGGCTCCATGCATCGTCTACATCGACGAGATCGACGCACTGGGAAAAAACGAAGCACCAAC
ATGAGTGGCTTTTCTAATACCGAGGAGGAACAGACACTGAACCAGCTGCTGGTTGAGATGGACGGTGCCA
GCCTTGATCAACTGCCCTCCCAAGGTACCATGAGGAAGCTCAGGGGAAAGACTCCAGCCTGTTCTTGCTT
GACCGAACCCACCGCTCAAGAAGAGCCATGGAGGGACACAGTCTGTGTTGGGATGCCTCTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223633 representing NM_199367
Red=Cloning site Green=Tags(s)

MAVLLLLLRLRRGPGPRPLWGPAPWSPGFPARPGRGRPYMASRPPGD LAEAGGRALQSLQLRLLP
TFEGINGLLLLKQHLVQNPVRLWQLLGGTFYFNTSRLKQKNKEKDKSKGAPEEDEEERRRRERDDQMYRE
RLRTLVIIVVMSLLNALSTSGGSIWNDFVHEMLAKGEVQRVQVVPESDVVEVYLHPGAVVFGPRRLAL
MYRMQVANIDKFEEKLRAAEDELNIEAKDRIPVSYKRTGFFGNALYSVGMTAVGLAILWYVFRLAGMTGR
EGGFSAFNQLKMARFTIVDGKMGKVSFKDVAGMHEAKLEVREFVDYLKSPERFLQLGAKVPKGALLLGP
PGCGKTL LAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVRS LFKEARARAPCIVYIDEIDAVGKKRSTT
MSGFSNTEEEQTLNQLLVEMDGASLDQLPSQGTMRKLRGKTPACSLTEPTGSRRAMEGHSLCWGCLLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Species: Human

Serotype: AAV-2

ACCN: NM_199367

ORF Size: 1467 bp

Buffer:	PBS with 0.001% Pluronic F68
Stability:	AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.
RefSeq:	NM_199367.1 , NP_955399.1
RefSeq Size:	2328 bp
RefSeq ORF:	1470 bp
Locus ID:	6687
UniProt ID:	Q9UQ90
Cytogenetics:	16q24.3
MW:	53.9 kDa