

Product datasheet for **SC320003**

SPG21 (NM_016630) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPG21 (NM_016630) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPG21
Synonyms:	ABHD21; ACP33; BM-019; GL010; MAST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_016630.3
 GCACGCACCGCGCAGCCTGCTGTGCCCGTGGGTCCCGAGTGCTCCGCCGCCGCCCGAC
 CCGGGCCAGCCGCTCCACGGCCCGCTCGTACTGGAGCGAAGAGCGGCCTCCTGAAG
 GAGGGGAAGGAGCTGGGGGCGGCCACGGCAGGATTAACCTCCATTTAGCTAATCATGG
 GAGAGATTAAAGTCTCTCCTGATTATAACTGGTTTAGAGGTACAGTTCCTTAAAAAGA
 TTATTGTGGATGATGATGACAGTAAGATATGGTCGCTCTATGACGCGGGCCCCGAAGTA
 TCAGGTGTCCTCTCATATTCCTGCCCTGTGAGTGAAGTGCAGATGCTTTTTCCGGC
 AGATTTTGGCTCTGACTGGATGGGTTACCGGGTTATCGCTTTGCAGTATCCAGTTTATT
 GGGACCATCTCGAGTTCTGTGATGGATTGAGAACTTTTAGACCATTTACAATTGGATA
 AAGTTCATCTTTTGGCGCTTCTTTGGGAGGCTTTTGGCCAGAAATTTGCTGAATACA
 CTCACAAATCTCCTAGAGTCCATTCCCTAATCCTCTGCAATTCCTTCAGTGACACCTCTA
 TCTTCAACCAACTTGGACTGCAACAGCTTTTGGCTGATGCCTGCATTATGCTCAAAA
 AAATAGTCTTGGAAATTTTCTCTGGCCCGGTGGACCTATGATGGCTGATGCCATTG
 ATTTTCATGGTAGACAGGCTAGAAAGTTTGGTCAGAGTGAAGTGGCTTCAAGACTTACCT
 TGAATTGTCAAAATCTTATGTGGAACCTCATAAAATTCGGGACATACCTGTAATATTA
 TGGATGTGTTTGTATCAGAGTGCGCTTTCAACTGAAGCTAAAGAAGAAATGTACAAGCTGT
 ATCCTAATGCCCCAAGAGCTCATCTGAAACAGGAGGCAATTTCCCATACCTGTGCAGAA
 GTGCAGAGGTCAATCTTTATGTACAGATACATTTGCTGCAATTCATGGAACCAATACG
 CGGCCATTGACCCATCAATGGTCAGTGCCGAGGAGCTTGAAGTGCAGAAAGGCAGCCTTG
 GCATCAGCCAGGAGGAGCAGTAGTGTCTCTCGCTGTCAATGATGAGTTGACCCGGTGT
 GTTCTTGATAGTCAGTGGCATCAGCACCCGTGAGCCGGCCTTTTCCTTCAGGTTTCGTCA
 GGCTCACCGGTTCTCACTGTGTCTGGGAAGTAGGACTGATGGTCATCTTCATGACAGGCG
 GCATCTCCACTAAGCCTGTGTAAGTGTCCCTCTTTGGTTTCTTAGCTTTGAATTTGA
 AGAAGTACTTTTGAAGACTCCCATTTTAAAGAACGTGCAGATTTTGTACCAAAAGTCTT
 CACCACTGTGTTCTTAAGTGAATGTTAATTTCTGAGGTTTGGGACTTTGTGGTGGTTTTT
 TTCTTCTTTTCTTTCCATTCTTCTTTCTTTCTTTTATGTTGTTTGTGTAAATGCTGC
 ACATCCAGATTGCATATCAGGACATTGGTTATTTTATGCTTTCTTGATATAACCATGAT
 CAGAGTGCCATGGCCACTACCCACTGTTGCTCTCTGCAAATCAACTGCTTTTAATTT
 ACATCTAAACAAATGTTTTGAGTGTTAGCTACTGCCTTTCTAGATATTAGTCATTTGGA
 ATAAAAATTCATTTCACTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016630

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.

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:	<u>NM_016630.3, NP_057714.1</u>
RefSeq Size:	1815 bp
RefSeq ORF:	927 bp
Locus ID:	51324
UniProt ID:	<u>Q9NZD8</u>
Cytogenetics:	15q22.31
Gene Summary:	The protein encoded by this gene binds to the hydrophobic C-terminal amino acids of CD4 which are involved in repression of T cell activation. The interaction with CD4 is mediated by the noncatalytic alpha/beta hydrolase fold domain of this protein. It is thus proposed that this gene product modulates the stimulatory activity of CD4. Mutations in this gene are associated with autosomal recessive spastic paraplegia 21 (SPG21), also known as mast syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 encode the same isoform (a).