

Product datasheet for **SC322963**

SPG21 (NM_001127889) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPG21 (NM_001127889) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPG21
Synonyms:	ABHD21; ACP33; BM-019; GL010; MAST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322963 representing NM_001127889. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGTAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGAGAGATTAAGTCTCTCCTGATTATAACTGGTTTAGAGGTACAGTTCCTTAAAAAGATTATT
GTGGATGATGATGACAGTAAGATATGGTCGCTCTATGACGCGGGCCCCGAAGTATCAGGTGTCCTCTC
ATATTCCTGCCCTGTGAGTGAAGTGCAGATGTCTTTTCCGGCAGATTTGGCTCTGACTGGATGG
GGTTACCGGGTTATCGCTTTCAGTATCCAGTTTATTGGGACCATCTCGAGTTCTGTGATGGATTGAGA
AACTTTTAGACATTTACAATTGGATAAAGTTCATCTTTTGGCGCTTCTTGGGAGGCTTTTGGCC
CAGAAATTTGCTGAATACACTCACAATCTCCTAGAGTCCATTCCTAATCCTCTGCAATTCCTTCAGT
GACACCTCTATCTTCAACCAAATTTGGACTGCAACAGCTTTTGGCTGATGCCTGCATTTATGCTCAA
AAAATAGTTCTTGAAATTTTTCATCTGCCCCGGTGGACCTATGATGGCTGATGCCATTGATTTATG
GTAGACAGGCTAGAAAGTTTGGGTGAGTGAAGTGGCTTCAAGACTTACCTTGAATTGTCAAATTCCT
TATGTGGAACCTCATAAAATTCGGGACATACCTGTAACCTATTATGGATGTGTTTATGATCAGAGTGCCTT
TCAACTGAAGCTAAAGAAGAAATGTACAAGCTGTATCCTAATGCCGAAGAGCTCATCTGAAACAGGA
GGCAATTTCCCATACCTGTGCAGAAGTGCAGAGGTCAATCTTTATGTACAGATACATTTGCTGCAATTC
CATGGAACCAAATACGCGGCCATTGACCCATCAATGGTCAGTGCCGAGGAGCTTGAGGTGCAGAAAGGC
AGCCTTGGCATCAGCAGGAGGAGCAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001127889
Insert Size:	927 bp


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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_001127889.4</u>
RefSeq Size:	1658 bp
RefSeq ORF:	927 bp
Locus ID:	51324
UniProt ID:	<u>Q9NZD8</u>
Cytogenetics:	15q22.31
MW:	35 kDa
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 (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (a).