

Product datasheet for **SC128284**

SPART (NM_015087) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPART (NM_015087) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPART
Synonyms:	SPG20; TAHCCP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_015087, the custom clone sequence may differ by one or more nucleotides

```

ATGGAGCAAGAGCCACAAAATGGAGAACCTGCTGAAATTAAGATCATCAGAGAAGCATATAAGAAGCCCT
TTTTATTTGTTAACAAAGGTCTGAATACAGATGAATTAGGTCAGAAGGAAGAAGCAAAGAAGCACTACTATAA
GCAAGGAATAGGACACCTGCTCAGAGGGATCAGCATTTCATCAAAGAGTCTGAACACACAGGCTCTGGG
TGGGAATCTGCTAGACAGATGCAACAGAAAATGAAAGAACTCTACAGAATGTACGCACCAGGCTGGAAA
TTCTAGAGAAGGGTCTTGCCACTTCTCTGCAGAATGATCTTCAGGAGGTGCCCAAGTTATATCCAGAATT
TCCACCTAAAGACATGTGTGAAAAATTACCAGAGCCTCAGTCTTTTAGTTCAGCTCCTCAGCATGCTGAA
GTAATGGAAACACCTCAACTCCAAGTGCAGGGCAGTTGCTGCACCTGCTTCTCTGTCTTTACCATCAC
AAAGTTGTCCAGCAGAAGCTCCTCCTGCTTATACTCCTCAAGCTGCTGAAGGTCCTACTACTGTATCCTA
TGGAACAGATTCTGGGGAGTTTTATCAGTTGGAGAGGAGTTTTATAGGAATCATTCTCAGCCACCGCCT
CTTGAGACCTTAGGGCTGGATGCAGATGAATTGATTTTGATACCAATGGAGTACAGATTTTTTTTGTA
ATCCTGCAGGGGAGGTTAGTGCACCTTCGTATCCTGGGTACCTTGAATTTGTGAGTTTTTTGGATAATTC
TCTCGATACGGTTCTAAACCGTCTCCCGGGTTTCTTCAGGTTTGTGACTGGTTATATCCTCTAGTTCCT
GATAGATCTCCGGTTCTGAAATGTACTGCGGGAGCCTACATGTTTCTGATACAATGCTACAAGCAGCAG
GATGCTTTGTGGGGTCTCCTGTCTCTGAGTTACCAGAGGATGATAGAGAGCTCTTTGAGGATCTGTT
AAGGCAATGTCTGACCTTCGGCTCCAGGCCAACTGGAACAGAGCAGAAGAAGAAAATGAATCCAAATC
CCTGGAAGAACTAGACCTCCTCTGACCAACTAAAAGAAGCCTCTGGCACTGATGTGAAACAGTTGGACC
AAGGCAATAAGGATGTACGTCAAAAGGAAAACGTGAAAAAGGGCTAAAGATACTTCAAGTGAAGAAGT
TAACCTGAGTACATTGTACCATGTGAGCCAGTCCAGAAGAAAAGCCAAAAGAATTACCTGAATGGAGT
GAAAAAGTGGCTCACAACATTTTGTGAGTGTCTCCTGGGTGAGTTGGGGTTTGTGCAAAAGTGTGAGA
TTACTGGTAAGGCAATCCAGAAAAGGTCTTCTAAACTCCGAGAGCGGATTCAACCAGAAGAAAACCGT
GGAAGTTAGTCCAGCTGTACCAAGGGACTTTATATAGCGAAGCAAGCTACAGGAGGAGCAGAAAAGTC
AGTCAGTTCCTGGTTGATGGAGTTTGCAGTGTAGCAAATGCGTTGAAAAAGAACTAGCTCCACATGTCA
AGAAGCATGGAAGCAAATTTGTTCCAGAATCTCTTAAAAAAGACAAGATGGGAAATCTCCTCTGGATGG
TGCTATGGTTGTAGCAGCAAGTGTGTTCAAGGATTTTCAACTGTCTGGCAAGGATTGGAATGTGCAGCT
AAATGCATCGTTAAACAATGTTTCCAGCAGAACTGTACAACTGTCAGATACAAATACGGATATAATGCAG
GAGAAGCTACCCACCATGCGGTGGATTCTGCGGTCAATGTTGGCGTAACTGCCTACAATATTAACAACAT
TGGTATCAAAGCAATGGTGAAGAAAACGCAACACAAACAGGACACACTCTCCTTGAGGACTATCAGATA
GTTGATAATTCTCAGAGGGAAAATCAAGAAGGAGCAGCAATGTCAACGTGAGAGGGGAGAAGGATGAGC
AGACGAAGGAAGTAAAGGAGGCAAGAAGAAAGATAAATGA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015087 unedited

```

NGGGGTTTCGCGATATTTGTATACGACTTATATAGGCGGCCGCGCAATTCGCACGAGGGG
AGTGGGAGCTGGTCCGTGCCGCGCGCCGCGCAGGGAGCTCTCGAGGCAACGCCGGGGC
GCCCGAGGTCTGGAAGGCGCAGAAATGGAGCAAGAGCCACAAAATGGAGAACCTGCTGAA
ATTAAGATCATCAGAGAAGCATATAAGAAGGCCTTTTTATTTGTTAACAAAGGTCTGAAT
ACAGATGAATTAGGTCAGAAGGAAGAAGCAAAGAAGCACTACTATAAGCAAGGAATAGGACAC
CTGCTCAGAGGGATCAGCATTTCATCAAAGAGTCTGAACACACAGGCTCTGGTGGGAA
TCTGCTAGACAGATGCAACAGAAAATGAAAGAACTCTACAGAATGTACGCACCAGGCTG
GAAATTTAGAGAAGGGTCTTGCCACTTCTCTGCAGAATGATCTTCAGGAGGTGCCCAAG
TTATATCCAGAATTTCCACCTAAAGACATGTGTGAAAAATTACCAGAGCCTCAGTCTTTT
AGTTCAGTCTCCTCAGCATGCTGAAGTAAATGGAACACCTCAACTCCAAGTGCAGGGGCA
GTTGCTGCACCTGCTTCTCTGTCTTTACCATCACAAAGTTGTCCAGCAGAAGCTCCTCCT
GCTTATACTCCTCAAGCTGCTGAAGTCACTACTACTGTATCCTATGGAACAGATTCTGGG
GAGTTTTATCAGTTGGAGAGGAGTTTTATAGGAATCATTCTCAGCCACCGCCTCTTGAG
ACCTTTAGGCTGGATGCAGATGAATTGATTNTGATACCAATGGAGTACAGATTTTTTTT
GTAATCCTGCAGGGGAGTTAGTGCACCTTCGTATCCTGGGTACCTCCGAATGTGAGGT
TTTTGGATATNCTCTCGATACGGNTCTAACCGTNTCCNGGNC
    
```

3' Read Nucleotide Sequence:	>Forward primer walk for NM_015087 unedited CGTATGGTTGCTTTCTAACCTCCGAGACGGATTAACCTGAAGAAAAACCCGTGGAAGCTT AGTCCAGCTTGTACCAAGGGACTTTATATAGCGAAGCAAGCTACAGGAGGAGCAGCAAA AGTCAGTCAGTTCCTGGTTGATGGAGTTGCACTGTAGCAAATTCGCTTGAAAAAGAACT AGCTCCACATGTCAAGAAGCATGGAAGCAAACCTGTTCCAGAATCTCTAAAAAAGACAA AGATGGGAAATCTCCTCTGGATGGTGTATGGTTGTAGCAGCAAGTAGTGTCAAGGATT TTCAACTGTCTGGCAAGGATTGGAATGTGCAGCTAAATGCATCGTTAACAATGTTTCAGC AGAAACTGTACAACTGTCAGATACAAATACGGATATAATGCAGGAGAAGCTACCCACCA TGCGGTGGATTCTGCGGTCAATGTTGGCGTAACTGCCTACAATATTAACAACATTGGTAT CAAAGCAATGGTGAAGAAAACCTGCAACCAAAACAGGACACACTCTCCTTGAGGACTATCA GATAGTTGATAATTCTCAGAGGGAAAAATCAAGAAGGAGCAGCAAATGTCAACGTGAGAGG GGAGAAGGATGAGCAGACGAAGGAAGTAAAGGAGGCAAAGAAGAAAGATAAATGATGAAG TGCTGGGAATCACTTATACCAAAGCCTTATGAAATGGATGAAATTTTGTAAATAGGCAA ATGTGGAATTCCTCACAGATTAACCAAGTATTTTTAAATGTATTCTTCTACAAATTA CTTTCATAAATTTTATGGCATGTCTTCTATTTAAAGGAAAAGAATAAGTATTCTTGCAT CTGGCCTTAGAAATGTGAAGTTATATCTCAAGTTATTTTTTCCAGTGTAGCTAAATAT TTTGACAGTAAATAAGCTGATAGTACATGTGTTGTTCAACTTGTTAAACCTAATATTGAA CTATTTTTATAATCTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_015087
Insert Size:	2850 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).
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:	<ol style="list-style-type: none"> 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_015087.3 , NP_055902.1
RefSeq Size:	4838 bp
RefSeq ORF:	2001 bp
Locus ID:	23111
UniProt ID:	Q8N0X7
Cytogenetics:	13q13.3
Domains:	MIT

Gene Summary:

This gene encodes a protein containing a MIT (Microtubule Interacting and Trafficking molecule) domain, and is implicated in regulating endosomal trafficking and mitochondria function. The protein localizes to mitochondria and partially co-localizes with microtubules. Stimulation with epidermal growth factor (EGF) results in protein translocation to the plasma membrane, and the protein functions in the degradation and intracellular trafficking of EGF receptor. Multiple alternatively spliced variants, encoding the same protein, have been identified. Mutations associated with this gene cause autosomal recessive spastic paraplegia 20 (Troyer syndrome). [provided by RefSeq, Nov 2008]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3, and 4 encode the same protein.