

## Product datasheet for **TP320458**

### Spastin (SPAST) (NM\_014946) Human Recombinant Protein

#### Product data:

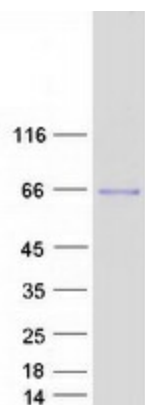
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human spastin (SPAST), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220458 representing NM_014946 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MNSPGGRGKKKGSGGASNPVPPRPPPPCLAPAPPAAGPAPPPEQHKRNLYYFSYPLFVGALLRLVAFH LGLLFVWLCQRFSRALMAAKRSSGAAPAPASASAPVPVGGEAERVVRFHKQAFEYISIALRIDEDEKAG QKEQAVEWYKKGIEELEKGIAVIVTGQGEQCERARRLQAKMMTNLVMKDRLQLLEKMQPVL PFSKSQT D VYNDSTNLACRNGHLQSESGAVPKRKDPLTHTSNLSLPRSKTVMKTGSAGLSGHHRAPSYSGLSMVSGVK Q GSGPAPTTHKGTPKTNRTNKPSTPTTATRKKKDLKNFRNVDSNLANLIMNEIVDNGTAVKFDDIAGQDLA KQALQEIVLPSLRPELFTGLRAPARGLLLFGPPGNGKTMLAKAVAAESNATFFNISAA SLTSKYVGEGE KLVRALFAVARELQPSIIFIDEVDSLLCERREGEHDASRLKTEFLIEFDGVQSAGDDRVLVMGATNRPQ ELDEAVLRRIKRVYVSLPNEETRLLLLKNLLCKQGSPLTQKELAQ LARMTDGYSGSDLTALAKDAALGP IRELKPEQVKNM SASEMRNIRLSDFTESLKKIKRSVSPQTLEAYIRWNKDFGDTTV  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	67 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.


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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_055761</a>
<b>Locus ID:</b>	6683
<b>UniProt ID:</b>	<a href="#">Q9UBP0</a>
<b>RefSeq Size:</b>	5221
<b>Cytogenetics:</b>	2p22.3
<b>RefSeq ORF:</b>	1848
<b>Synonyms:</b>	ADPSP; FSP2; SPG4
<b>Summary:</b>	This gene encodes a member of the AAA (ATPases associated with a variety of cellular activities) protein family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. The use of alternative translational initiation sites in this gene results in a single transcript variant that can produce isoforms that differ in the length of their N-terminus and which thereby differ in the efficiency of their export from the nucleus to the cytoplasm. In addition, alternative splicing results in multiple transcript variants that encode isoforms that differ in other protein regions as well. One isoform of this gene has been shown to be a microtubule-severing enzyme that regulates microtubule abundance, mobility, and plus-end distribution. Mutations in this gene cause the most frequent form of autosomal dominant spastic paraplegia 4. [provided by RefSeq, May 2018]

**Protein Families:** Druggable Genome, Transmembrane

## Product images:



Coomassie blue staining of purified SPAST protein (Cat# TP320458). The protein was produced from HEK293T cells transfected with SPAST cDNA clone (Cat# [RC220458]) using MegaTran 2.0 (Cat# [TT210002]).