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Product datasheet for RC220458L3V

Spastin (SPAST) (NM_014946) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Spastin (SPAST) (NM_014946) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SPAST
Synonyms:	ADPSP; FSP2; SPG4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_014946
ORF Size:	1848 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC220458).`
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_014946.3
RefSeq Size:	5221 bp
RefSeq ORF:	1851 bp
Locus ID:	6683
UniProt ID:	Q9UBP0
Cytogenetics:	2p22.3
Domains:	AAA, AAA, MIT
Protein Families:	Druggable Genome, Transmembrane

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MW: 67 kDa

Gene Summary: 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]