

## Product datasheet for TP315650L

### SPIRE2 (NM\_032451) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human spire homolog 2 (Drosophila) (SPIRE2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215650 representing NM_032451 Red=Cloning site Green=Tags(s)

MARAGSCGGAAAGAGRPEPWELSLEEVLKAYEQPLNEEQAWAVCFQGCRLRGSPGRRLRDTGDLLLRGD  
GSVGAREPEAAEPATMVVPLASSEAQTVQSLGFAYRALDWGLDESEERELSPQLERLIDLMANNDSEDS  
GCGAADEGYGGPEEEEEAEVPRSVRTFAQAMRLCAARLTDPRGAQAHYQAVCRALFVETLELRAFLARV  
REAKEMLQKLREDEPHLET PRAELDSLGH TDWARLWVQLMRELRRGVKLLKVVQE QEFNPLPTEFQLTPFE  
MLMQDIRARNYKLRKVMVDGDIPPRVKKDAHELILDFIRSRPPLKQVSERRLRPLPPKQ RSLHEKILEEI  
KQERRLRPVRGEGWAARGFGSLPCILNACSGDAKSTSCINLSVTDAGGSAQRPRPRVLLKAPT LAEMEEM  
NTSEEEESP CGEVT LKRDRSFSEHDLAQLRSEVASGLQSATHPPGGTEPPRPRAGSAHVWRP GSRDQGT C  
PASVSDPSHPLLSNRGSSGDRPEASMT PDAKHLWLEFHPVESLALTV EEVMDVRRV LVKAE MEKFLQNK  
ELFSSLKKGKICCCCRAKFPLFSWPPSCLFCKRAVCTSCSIKMKMP SKKFGHIPVYTLGFESPQRVSAAK  
TAPIQR RDIFQSLQGPQWQSV EEA FPHIYSHGCVLKDVCSECTSFVADVVRSSRKSVDV LNTTPRRSRQT  
QSLYIPNTRTLDFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	79.5 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_115827</a>
<b>Locus ID:</b>	84501
<b>UniProt ID:</b>	<a href="#">Q8WWL2</a>
<b>RefSeq Size:</b>	3249
<b>Cytogenetics:</b>	16q24.3
<b>RefSeq ORF:</b>	2142
<b>Synonyms:</b>	Spir-2
<b>Summary:</b>	Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the new filament (PubMed:21620703). Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport (By similarity). Required for asymmetric spindle positioning and asymmetric cell division during meiosis (PubMed:21620703). Required for normal formation of the cleavage furrow and for polar body extrusion during female germ cell meiosis (PubMed:21620703). Also acts in the nucleus: together with SPIRE1 and SPIRE2, promotes assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage (PubMed:26287480).[UniProtKB/Swiss-Prot Function]
<b>Protein Pathways:</b>	Dorso-ventral axis formation

### Product images:



Coomassie blue staining of purified SPIRE2 protein (Cat# [TP315650]). The protein was produced from HEK293T cells transfected with SPIRE2 cDNA clone (Cat# [RC215650]) using MegaTran 2.0 (Cat# [TT210002]).