

Product datasheet for TP315650L

OriGene Technologies, Inc.

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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 >RC215650 representing NM_032451 or AA Sequence: Red=Cloning site Green=Tags(s)

MARAGSCGGAAAGAGRPEPWELSLEEVLKAYEQPLNEEQAWAVCFQGCRGLRGSPGRRLRDTGDLLLRG

D

GSVGAREPEAAEPATMVVPLASSEAQTVQSLGFAIYRALDWGLDESEERELSPQLERLIDLMANNDSEDS GCGAADEGYGGPEEEEEAEGVPRSVRTFAQAMRLCAARLTDPRGAQAHYQAVCRALFVETLELRAFLARV REAKEMLQKLREDEPHLETPRAELDSLGHTDWARLWVQLMRELRRGVKLKKVQEQEFNPLPTEFQLTPF

Ε

MLMQDIRARNYKLRKVMVDGDIPPRVKKDAHELILDFIRSRPPLKQVSERRLRPLPPKQRSLHEKILEEI KQERRLRPVRGEGWAARGFGSLPCILNACSGDAKSTSCINLSVTDAGGSAQRPRPRVLLKAPTLAEMEEM NTSEEEESPCGEVTLKRDRSFSEHDLAQLRSEVASGLQSATHPPGGTEPPRPRAGSAHVWRPGSRDQGTC PASVSDPSHPLLSNRGSSGDRPEASMTPDAKHLWLEFSHPVESLALTVEEVMDVRRVLVKAEMEKFLQNK ELFSSLKKGKICCCCRAKFPLFSWPPSCLFCKRAVCTSCSIKMKMPSKKFGHIPVYTLGFESPQRVSAAK TAPIQRRDIFQSLQGPQWQSVEEAFPHIYSHGCVLKDVCSECTSFVADVVRSSRKSVDVLNTTPRRSRQT

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.





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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.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 115827

Locus ID: 84501

UniProt ID: Q8WWL2

RefSeq Size: 3249

Cytogenetics: 16q24.3 RefSeq ORF: 2142

Synonyms: Spir-2

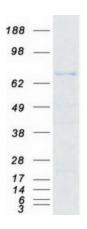
Summary: Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of

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]

Protein Pathways: 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]).