

# Product datasheet for TP315650M

#### 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), 100 μg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC215650 representing NM\_032451 **or AA Sequence:** Red=Cloning site Green=Tags(s)

MARAGSCGGAAAGAGRPEPWELSLEEVLKAYEQPLNEEQAWAVCFQGCRGLRGSPGRRLRDTGDLLLRGD GSVGAREPEAAEPATMVVPLASSEAQTVQSLGFAIYRALDWGLDESEERELSPQLERLIDLMANNDSEDS GCGAADEGYGGPEEEEAEGVPRSVRTFAQAMRLCAARLTDPRGAQAHYQAVCRALFVETLELRAFLARV REAKEMLQKLREDEPHLETPRAELDSLGHTDWARLWVQLMRELRRGVKLKKVQEQEFNPLPTEFQLTPFE 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.

**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.





### SPIRE2 (NM\_032451) Human Recombinant Protein - TP315650M

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

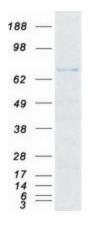
Summary: Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the

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]).