

## Product datasheet for TP511156

### Actn4 (NM\_021895) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse actinin alpha 4 (Actn4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA** >MR211156 representing NM\_021895

**Clone or AA** Red=Cloning site Green=Tags(s)

**Sequence:**

MVDYHAANQAYQYGPNSGGGNGAGGGGSMGDYMAQEDDWRDLLLLDPAWEKQQRKTFTAWCNSHLRKAGT  
QIENIDEDFRDGLKMLLLLEVISGERLPKPERGKMRVHKINNVNKALDFIASKGVKLVSIGAEEIVDGN  
KMTLGMIIWTHILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNVQNFHISWKDGLAFNALIHRHRPEL  
IEYDKLRKDDPVTNLNNAFEVAEKYLDIPKMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAAN  
RICKVLAVNQENEHLMEDYERLASDLEWIRRTIPWLEDVRPQKTIQEMQQKLEDFRDYRRVHKPPKVQE  
KCQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNGWQHLEQAQEKGYEELLNEIRRLERLDHLAEKFR  
QKASIEAWTDGKEAMLKQRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQELNELDYDSSH  
NVNTRCQKICDQWDNLGSLTHSRREALEKTEKQLETIDQLHLEYAKRAAPFNWWMESAMEDLQDMFIVHT  
IEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIAESNHKLSGNSNPYTTVTPQIINSKWEKVQQL  
VPKRDHALLEEQSKQQSNEHLRRQFASQANMVGPIWQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVD  
YKPSLDLLEQQHQLIQEALIFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQE  
FRASFNHFDKDHGGALGPEEFKACLISLGYDVENDRQGD AEFNRIMSWDPNHSGLVTFQAFIDFMSRET  
TDTDTADQVIASFVLAGDKNFITAEELRRELPPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGES  
DL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK

**Predicted MW:** 105.4 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



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<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_068695</a>
<b>Locus ID:</b>	60595
<b>UniProt ID:</b>	<a href="#">P57780</a> , <a href="#">Q3ULT2</a>
<b>RefSeq Size:</b>	3859
<b>Cytogenetics:</b>	7 B1
<b>RefSeq ORF:</b>	2736
<b>Synonyms:</b>	C77391
<b>Summary:</b>	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein. Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (By similarity). Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (PubMed:18332111). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (By similarity).[UniProtKB/Swiss-Prot Function]