

## Product datasheet for TP511961

### Prx (BC068135) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse periaxin (cDNA clone MGC:92965 IMAGE:30354483), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR211961 representing BC068135  
Red=Cloning site Green=Tags(s)

MATPCCPSQELRRAELVEIIVETE AQTGVSGFNVAGGGKEGIFVRELREDS PAAKSLSLQEGDQLLSARV  
FFENFKYEDALRLLQCAEPYKVSFCLKRTVPTGDLALRPGTVSGYEMKGPRAKVAKLN IQSLAPVKKKKM  
VTGALGTPADLAPVDVEFSFPKFSRLRRGLKAEAVKGPVPAAPARRRLQLPRLRVREVAEEA QVARMAAA  
APPPRKAKAEAEAATGAGFTAPQLELVGPRLPSAEVGPVQVSVPKGTPSTEAASGFALH LPTLGLGAPAA  
PAVEPPATGIQVPQVELPTLPSLPTLPTLPCLDTQEGAAVVKVPTLDVAAPSMGVDLALPGA EVEAQGEV  
PEVALKMPRLSFPFRGIRGKEATEAKVVKGSPEAKAKGPRLRMPFTFGLSLEPRPSGPEAVAESK LKLP  
LKMPSEFGIVTGPEVKAPKGPEVKLPKVPEVKLPKVPEAAIPDVQLPEVQLPKMSDMKLPKIP EMVVPDV  
RLPEVQLPKVPEMKVPEMKLPKVPEMAVPDVHLPDVQLPKVPEMKLPKVPEMAVPDVHLPDVQLPKVPEM  
KLPKEMKLPKVPEMAVPDVRLPEVQLPKVSEVKLPKMPMAVPDVHLPQLPKMSEVKLPKMPMAVPDV  
RLPEVQLPKVSEMKLPKMPMTMPDIRLPEVQLPKVPDIKLPKEMKLPKIPKVPD MAVPDVPLPELQLP  
KVSDIRLPEMQVSQVPEVQLPKMPKEMKLSKVPEVQRKSAGAEQAKGTEFSFKLPKMTMPKLGKVGKPGEA  
SIEVPDKLMTLPCLQPEVGT EASHVGVPSLSLPSVELDLPALGLEGQVQEAVPGKVEKPEGPRVAVGVG  
EVGFRVPSVEIVTPQLPTVEVEKEQLEMVEMKVKPSSKFSLPKFGLSGPKAVKGEVEGPGRATKLVSKF  
TISLPKARAGTEAEAKGAGEAGLLPALDLSIPQLSLDAQLP SGKVEVADSKPKSSRFALPKFGVKGRDSE  
ADVLVAGEAELEGKGWGWDGKVKMPKLMPSFGLSRGKEAETQDGRVSPGKLEAIAGQLKIPAVELVTP  
GAQETEKVTSGVKPSGLQVSTTGQVVAEGQESVQRVSTLGISLPQVELASFGEGAP EIVAPSAEGTAGSR  
VQVPQVMLELPGTQVAGGDLV GEGIFKMPTVTVPQLELDVGLGHEAQAGEAAKSEGGIKLKLPTLGTGS  
RGEGVEPQGPEAQRTFHLSLPDVELTSPVSSHA EYQVVEGDGDGGHKLKVRPLPFLGLAKAKEGIEVGEKA  
KSPKLRPRVGFQSSESVSGEGSPSEEEEEGS GEGASSRRGRVRLPRVGLASPSKVSKGQEGDATSK  
SPVGEKSPKFRFRVSLSPKARSGSRDREEGGFRVRLPSVGFSETAVPGSTRIEGTQAAA I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK

**Predicted MW:** 147.5 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<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>Locus ID:</b>	19153
<b>UniProt ID:</b>	<a href="#">O55103</a>
<b>RefSeq Size:</b>	4502
<b>Cytogenetics:</b>	7 15.91 cM
<b>RefSeq ORF:</b>	4173
<b>Synonyms:</b>	L-Periaxin
<b>Summary:</b>	Scaffolding protein that functions as part of a dystroglycan complex in Schwann cells, and as part of EZR and AHNAK-containing complexes in eye lens fiber cells (PubMed:11430802, PubMed:21745462, PubMed:22764250). Required for the maintenance of the peripheral myelin sheath that is essential for normal transmission of nerve impulses and normal perception of sensory stimuli (PubMed:10839370). Required for normal transport of MBP mRNA from the perinuclear to the paranodal regions (PubMed:15356632). Required for normal remyelination after nerve injury (PubMed:10839370). Required for normal elongation of Schwann cells and normal length of the internodes between the nodes of Ranvier. The demyelinated nodes of Ranvier permit saltatory transmission of nerve impulses; shorter internodes cause slower transmission of nerve impulses (PubMed:15356632, PubMed:23022068). Required for the formation of appositions between the abaxonal surface of the myelin sheath and the Schwann cell plasma membrane; the Schwann cell cytoplasm is restricted to regions between these appositions (PubMed:15356632, PubMed:23022068). Required for the formation of Cajal bands and of Schmidt-Lanterman incisures that correspond to short, cytoplasm-filled regions on myelinated nerves (PubMed:23022068, PubMed:22764250). Recruits DRP2 to the Schwann cell plasma membrane (PubMed:11430802, PubMed:23022068, PubMed:22764250). Required for normal protein composition of the eye lens fiber cell plasma membrane and normal eye lens fiber cell morphology (PubMed:21745462).[UniProtKB/Swiss-Prot Function]