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Product datasheet for MC224571

Prx (BC068135) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prx (BC068135) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prx
Synonyms:	L-Periaxin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC068135 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGACCCCTTGCTGCCCCTCGCAGGAGCTGAGACGGGCGGAGTTGGTGGAGATTATCGTGGAGACCG AGGCACAGACCGGGGTCAGCGGCTTCAACGTAGCAGGCGGCGGCAAAGAAGGAATCTTTGTCCGTGAGCT GCGAGAGGACTCACCGGCAGCTAAGAGCCTCAGCTTGCAAGAAGGGGACCAGCTGCTGAGTGCCCGTGTG TTCTTTGAGAACTTCAAATATGAGGATGCACTTCGCCTGCTGCAATGCGCAGAGCCCTACAAGGTCTCCT TCTGCTTGAAGCGCACTGTGCCCACCGGGGATCTGGCACTGAGGCCCGGGACGGTGTCTGGATACGAGAT GAAGGGCCCACGGGCCAAAGTGGCCAAGCTGAACATCCAGAGTCTGGCCCCTGTGAAGAAGAAGAAGATG GTGACTGGGGCCCTGGGGACCCCTGCAGATTTGGCCCCTGTTGACGTCGAGTTCTCTTTTCCCAAGTTCT CCCGACTGCGTCGGGGTCTCAAAGCCGAGGCTGTCAAGGGACCTGTCCCAGCTGCCCCAGCCCGTCGCCG CCTCCAGCTGCCTCGGCTGCGTGTCCGAGAAGTAGCTGAAGAGGCCCAGGTAGCCCGAATGGCTGCTGCT GCTCCTCCCCCAAGGAAGGCCAAGGCAGAAGCTGAGGCAGCCACAGGAGCTGGGTTCACAGCCCCTCAGT TAGAGCTAGTTGGGCCTCGGCTGCCTAGTGCCGAGGTGGGTGTCCCTCAGGTCTCAGTTCCCAAGGGGAC CCCATCAACAGAGGCAGCCAGCGGCTTTGCCCTTCACCTGCCAACCCTTGGGCTAGGTGCCCCAGCTGCA CCGGCTGTGGAGCCCCCAGCCACGGGAATCCAGGTTCCACAAGTGGAACTCCCCACCCTGCCCTCTCTAC CCACTCTTCCCACACTTCCATGCCTGGACACCCAGGAAGGAGCTGCAGTGGTAAAAGTCCCTACCCTGGA TGTGGCAGCTCCGTCTATGGGGGTGGACCTGGCTTTGCCGGGTGCAGAGGTGGAGGCCCAGGGAGAGGTT CCTGAAGTGGCCCTCAAGATGCCCCGGCTCAGTTTCCCCCGTTTTGGGATTCGGGGGAAGGAAGCCACTG AAGCCAAAGTAGTCAAGGGCAGCCCTGAGGCCAAAGCAAAGGGTCCCAGACTTCGAATGCCCACCTTTGG GCTTTCTCTCCTGGAACCCCGGCCCTCTGGCCCTGAAGCTGTTGCTGAGAGCAAGCTGAAGCTACCCACC CTCAAGATGCCCTCTTTCGGCATTGGTGTGACTGGGCCTGAGGTCAAGGCACCCAAGGGGCCCGAAGTAA AGCTCCCTAAGGTTCCTGAGGTCAAACTCCCGAAAGTGCCCGAGGCAGCCATTCCAGATGTGCAACTCCC TGAGGTACAGCTGCCCAAAATGTCAGACATGAAACTTCCAAAGATCCCTGAGATGGTTGTACCCGACGTT CGTCTTCCGGAAGTGCAGCTGCCCAAAGTCCCTGAGATGAAAGTCCCAGAGATGAAGCTCCCGAAGGTGC

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CCGAGATGGCCGTGCCCGATGTACACCTTCCAGATGTACAGCTCCCGAAAGTCCCAGAGATGAAGCTCCC
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TCCAGGTTCCACCAGGATTGAGGGAACCCAGGCTGCTGCCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC068135

Insert Size: 4176 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC068135, AAH68135
RefSeq Size:	4502 bp
RefSeq ORF:	4175 bp
Locus ID:	19153
Cytogenetics:	7 15.91 cM
Gene Summary:	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]