

Product datasheet for SC335756

Kaptin (KPTN) (NM_001291296) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kaptin (KPTN) (NM_001291296) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kaptin
Synonyms:	2E4; KICS4; MRT41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335756 representing NM_001291296. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGGGAGGCGGCCGTGGCCGCGGGGCTTGTCCGTTGCGCGAGGACAGCTTCACGCGCTTCTCG
TCGAGAGCAATGTGTACGGGCTGGCAGGCGCGCCGGCGGGGCGGGGAGCTGTGGCCGCCACCTT
AAAGGCAAGGTGCTCGGCTTCCGCTACCAAGACCTCCGACAGAAAATCCGGCCAGTGCCAAAGGAGCTG
CAGTTCAACTACATTCGAGAGCTGCCTGAACCTGGAGCTCCAGTTCACTCCGTTCCAGCTGTGCCAT
GCGGAGGTCCAGGTCGGGATCAACTTGAGACTGTGTTTCTCTTGTAGTGGGAACGACCCGGCCATTCAT
CTCTACAAGGAGAACGAGGGGCTGCATCAGTTTGAGGAACAGCCCGTGGAAAACCTCTTCCAGAGCTG
ACGAACCTGACCAGTAGGCTCCTCTGGCTGGACGTCCACAACCTCCCGGCACGTCCCGGCCCTCTCA
GCTCTGGGCTGTGAGAGTGGTTATGTCCGTGTCGCCACGTGGACCAGCGGAGTCGAGAGTTTCTGCAG
ATGTGGTTCGGTCTGCAGGACGGTCCCATCTCCGAGTGATTGTGTTTCAGCCTCTCGGCCCAAGGAG
ACCAAGGACAGGCCACTACAAGATGAGTACAGCGTGCTCGTGGCCAGCATGTTGGAGCCAGCAGTGGTG
TATCGGGACCTGCTGAACCGGGTCTTGAAGACCAGCTTCTCTGCCCGCAGTGACCAGTTTGACAGC
GTCCTCTGCAGCCTGGTACCGATGTGGATTTGGATGGGCGGCCAGAAGTCTGGTGGCCACCTATGGA
CAGGAAGTGTGTGTTAAGTACCGGGGCCAGAGTCGGGGCTTCTGAGGCCAGCACGGGTTCCAT
CTGCTGTGGCAGCGGAGCTTCTCCAGTCCCCTGCTGGCCATGGCTCAGTGGACCTGACCGGGGATGGG
CTGCAGGAGCTTGCCGTGGTCTCCCTGAAGGGCGTGCACATCCTGCAGCACAGCCTGATTACGGCCTCA
GAGCTGGTCTTGACCGGCTTCGACATCAAGTGGAGCAGAGGAGACGTCGGCTACAGGGTTGGAGGAC
GGGCGAGTGCAGGGCCTGCTGAGAATGCAGCCTCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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ACCN:	NM_001291296
Insert Size:	1143 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:	<ol style="list-style-type: none">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:	NM_001291296.1
RefSeq Size:	1551 bp
RefSeq ORF:	1143 bp
Locus ID:	11133
UniProt ID:	Q9Y664
Cytogenetics:	19q13.32
MW:	42 kDa
Gene Summary:	<p>This gene encodes a filamentous-actin-associated protein, which is involved in actin dynamics and plays an important role in neuromorphogenesis. This protein is part of the KICSTOR protein complex that localizes to lysosomes. Mutations in this gene result in an autosomal recessive form of intellectual disability. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (2) lacks two consecutive exons in the 5' coding region, but maintains the reading frame, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p>