

Product datasheet for **SC319270**

Kaptin (KPTN) (NM_007059) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kaptin (KPTN) (NM_007059) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kaptin
Synonyms:	2E4; KICS4; MRT41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_007059.2
 GGGTGTCTAACTGAGGGGCATGATGGGGGAGGCGGCCGTGGCCGCGGGGCCTTGTCCGTT
 GCGCGAGGACAGCTTCACGCGCTTCTCGTCGCAGAGCAATGTGTACGGGCTGGCAGGCGG
 CGCCGCGGGGCGGGGAGCTGCTGGCCGCCACCTTAAAGGCAAGGTGCTCGGCTTCCG
 CTACCAAGACCTCCGACAGAAAAATCCGGCCAGTGGCCAAGGAGCTGCAGTTCAACTACAT
 TCCCGTGGATGCGGAGATTGTCTCCATCGACACTTTCAACAAGTACCCCCCAAGCGGGG
 TCTGGTTGTGGGATCACGTTTCATCAAGGATTCAGGGGACAAGGGCAGCCCTTCTGAA
 CATTTACTGCGACTACGAGCCCGGCTCTGAGTACAACCTTGACTCTATTGCCAGAGCTG
 CCTGAACCTGGAGCTCCAGTTCCTCCGTTCCAGCTGTGCCATGCGGAGGTCCAGGTCGG
 GGATCAACTTGAGACTGTGTTTCTCTTGTAGTGGGAACGACCCGGCCATTCTCTACAA
 GGAGAACGAGGGGCTGCATCAGTTTGTAGGAACAGCCCGTGGAAAACCTTCCCAGAGCT
 GACGAACCTGACCAGTAGCGTCTCTGGCTGGACGTCCACAACCTCCCCGGCAGTCCCG
 GCGCCTCTCAGCTCTGGGCTGTGAGAGTGGTTATGTCCGTGTGCGCCACGTGGACCAGCG
 GAGTCGAGAGGTTCTGCAGATGTGGTCCGTCCTGCAGGACGGTCCCATCTCCCGAGTGAT
 TGTGTTACGCCTCTCGGCCCAAGGAGACCAAGGACAGGCCACTACAAGATGAGTACAG
 CGTGCTCGTGGCCAGCATGTTGGAGCCAGCAGTGGTGTATCGGGACCTGCTGAACCGGGG
 TCTTGAAGACCAGCTTCTCCTGCCTGGCAGTGACCAGTTTGACAGCGTCTCTGCAGCCT
 GGTCAACGATGTGGATTTGGATGGGCGGCCAGAAGTCTGGTGGCCACCTATGGACAGGA
 ACTGCTGTGTTATAAGTACCGGGGCCAGAGTCGGGGCTTCTGAGGCCACGACGGGTT
 CCATCTGCTGTGGCAGCGGAGCTTCTCCAGTCCCTGTGGCCATGGCTCACGTGGACCT
 GACCGGGGATGGGCTGCAGGAGCTTGCCGTGGTCTCCCTGAAGGGCGTGCACATCCTGCA
 GCACAGCTGATTCAGGCCTCAGAGCTGGTCTTGACCCGGCTTCGACATCAAGTGGAGCA
 GAGGAGACGTGCGCTACAGGGGTTGGAGGACGGGACAGGTGCAGGGCTGCTGAGAAATGC
 AGCCTCTTAAGCACCCATGCACCCACTTCTCCAGACCTGGGGGACTCATGGCGTGCTC
 ACCTCCAGCCGCTGGTGGGGGTCTCTGAAGGACAGGATGCTCTCCCCAGACCTCCCCA
 GGGTGGTGAAGCTGTGCCTGGGGCCCCAGCTAACCCACTCCTCTCTGTACGTCAATG
 TCCCTATTTGAAAGCAGGGATGATCCCATTCCACCCTGTCCACTCTGGATGAGAATTGGC
 CACCTGATGGTTATTTATACGTCCAGAAGAACATCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_007059

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_007059.2](#), [NP_008990.2](#)

RefSeq Size: 1688 bp

RefSeq ORF: 1311 bp

Locus ID: 11133

UniProt ID: [Q9Y664](#)

Cytogenetics: 19q13.32

Gene Summary: 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]
Transcript Variant: This variant (1) encodes the longer isoform (1).