

Product datasheet for **SC110853**

Centrin 2 (CETN2) (NM_004344) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Centrin 2 (CETN2) (NM_004344) Human Untagged Clone
Tag:	Tag Free
Symbol:	Centrin 2
Synonyms:	CALT; CEN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_004344 edited ATGGCCTCCAACCTTTAAGAAGGCAAACATGGCATCAAGTTCTCAGCGAAAAAGAATGAGC CCTAAGCCTGAGCTTACTGAAGAGCAAAAGCAGGAGATCCGGGAAGCTTTTGATCTTTTC GATGCGGATGGAAGTGGCACCATAGATGTTAAAGAACTGAAGGTGGCAATGAGGGCCCTG GGCTTTGAACCCAAGAAAGAAATTAAGAAAATGATAAGTGAAATTGATAAGGAAGGG ACAGGAAAAATGAACTTTGGTGACTTTTTAACTGTGATGACCCAGAAAATGTCTGAGAAA GATACTAAAGAAGAAATCCTGAAAGCTTTCAAGCTCTTTGATGATGATGAACTGGGAAG ATTTTCGTTCAAAAATCTGAAACGCGTGGCCAAGGAGTTGGGTGAGAACCTGACTGATGAG GAGCTGCAGGAAATGATTGATGAAGCTGATCGAGATGGAGATGGAGAGGTCAGTGAGCAA GAGTTCCTGCGCATCATGAAAAAGACCAGCCTCTATTAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004344 unedited AATACGACTCTCTATAGGGCGGCCGCAATTCGGCACGAGGCTCCTTTGGCTATGGCCTC CAACTTTAAGAAGGCAACATGGCATCAAGTTCTCAGCGAAAAAGAAATGAGCCCTAAGCC TGAGCTTACTGAAGAGCAAAAGCAGGAGATCCGGGAAGCTTTTGATCTTTTCGATGCGGA TGGAACTGGCACCATAGATGTTAAAGAAGTGAAGTGGCAATGAGGGCCCTGGGCTTTGA ACCCAAGAAAGAAGAAATTAAGAAAATGATAAGTGAATTTGATAAGGAAGGGACAGGAAA AATGAACCTTTGGTGACTTTTAACTGTGATGACCCAGAAAATGTCTGAGAAAGATACTAA AGAAGAAATCCTGAAAGCTTTCAAGCTCTTTGATGATGATAAGTGGGAAGATTTTCGTT CAAAAATCTGAAACGCGTGGCCAAGGAGTTGGGTGAGAACCTGACTGATGAGGAGCTGCA GGAAATGATTGATGAAGCTGATCGAGATGGAGATGGAGAGGTGAGGAGCAAGAGTTCTT GCGCATCATGAAAAGACCAGCCTCTATTAAGATCAGTGTCTTTTCTACTGCAAGC ACATGTAAGTACTAGATTTAGTGCCTGCCATGGTGTGAAATCTGGCTTTTGAGAACACANACT TTTCCCCACGGACCTCTTTATCACTNTAATAGTGACCTTGAGCCTATTTAGCCGTTGGG AGTGTCTTTGAATTACAGTCTTTGTAATGACCTGCGAATACCCCTATTCTCAAAGCA AACAAAGAGCACACAGCGTGAGAAANAGATCCTTAAGCTTGAGCACTGCCATTTGCCTGCA TNGTTTCTCGCATGCATTTCCATATCCACAACAGACGACTTTAACAGCACATGTCACC TGGGTTGCCAGCAGCATTCTGACGCTCAGTTTTATTGACCTGGATTATTTTTCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004344 unedited TATGGACCGGCCGCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTGTAAAAA TTCAAAGTGAAGAAAGTTTTACTTTTAAAGACAAAACAAATAGCATTAAACACATCCAAA TGCCAGTGCAGGAGTTCCTGAGTTTATAAAAGAGAAAACAACTCAAGTGTCAAAATAA AACTGGAGCCGTCAGAATGACTGCTTGTGGCAACACAGGTGTAACATGTGCTTGTCTA AAGTCGTTCTGTGTTTGTGGATATGTGGAAATGCATGACGAGGGAACGATGCAAGGCAA AATGGCAGGTGCTCAAAGCTTTAAGATCCTTTTCTTACGCTTGTGTGCTTGTGTTTTGC TTTTGAGAATTAGGGTAATTCGAGGTCATTTTACAAAGAAGTGAATATCAAAGAACAC TTCAAACGGCTAAAATAGGCTCAAGGTCATTTAAAGTGATAAAGGGAGGTCCGTTGGG GGAAAAGTTTGTGTTCTCAAAGCCAGATTTTACACCATGGCAGGCACTAAATCTAGTTA CATGTGCTTGCAGTAGAAAAAGAAGACTGATCTTAATAGAGGCTGGTCTTTTTCATGA TGCCGAGGAACCTTGTCTACTGACCTCTCCATCTCCATCTCGATCAGCTTCAATCAATCA TTTCTGACGCTCCTCATCAGTCAGGTTCTCACCAACTCCTTGGCCACGCGTTTCAGAT TTTTGAACGAAATCTTCCAGTTTCATCATCATCAAAGAGCCTTGAAGCTNTCCAGAAT TCTTCTTAGGATCTTTCTCAGACATTTTCTGGGTGATCAGTAAAAGTCAACCAAGT CATTTTCTGTCCCTCCCTACAATTCATATCATTTCTAACTTCTTCTTTCTGGGTCAA CCCAGGCCCTCATGCCACCTTAGTCTTTACATTATGTGCCGTCATCCCATCGAAGATAA AGCTTCCGAACCTGCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004344
Insert Size:	1120 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: [NM_004344.1](#), [NP_004335.1](#)

RefSeq Size: 1087 bp

RefSeq ORF: 519 bp

Locus ID: 1069

UniProt ID: [P41208](#)

Cytogenetics: Xq28

Domains: EFh

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

Gene Summary: Caltractin belongs to a family of calcium-binding proteins and is a structural component of the centrosome. The high level of conservation from algae to humans and its association with the centrosome suggested that caltractin plays a fundamental role in the structure and function of the microtubule-organizing center, possibly required for the proper duplication and segregation of the centrosome. [provided by RefSeq, Jul 2008]