CKAP5 cDNA Clone – Cytoskeleton Associated Protein 5 (Human)

PRODUCT OVERVIEW

Product Name	CKAP5, cDNA Clone
Full Product Name	CKAP5 cDNA Clone
Product Gene Name	CKAP5 cdna clone
Sequence	atgccagcca agcctgctcc acccactaaa gcaacttcta aaccaatggg agggtccgct ccagccaaat tccagcctgc atcagcacct gctgaagatt gtatttccag cagtacagaa cccaaacctg atccaaaaaa ggccaaagct ccaggattat cctctaaagc aaagagtgca caagggaaga agatgccaag caaaaccagc ttaaaggagg atgaagacaa atccgggcct atttttattg ttgttccaaa tggaaaagag caaaggatga aagatgaaaa aggattgaag gtgctaaagt ggaattttac taccccacgg gatgaataca ttgagcaact aaagactcaa atgtctagct gtgtggctaa atggttacaa gatgagatgt ttcactcaga ctttcagcat cataacaaag cccttgctgt tatggttgat cacttggaga gtgaaaaaga aggagttatt ggttgcctgg atcttatctt aaagtggctt accctgaggt tttttgacac caatacaagc gtcctgatga aagcactaga atatttaaaa ttgctcttca ccttgctaag tgaagaagaa tatcatctta ctgagaatga agcatcttcc ttcatcccct atcttgtcgt caaggttgga gaaccaaagg atgtcattcg taaagatgtt cgtgccatcc tgaaccggat gtgccttgtc tacccagcta gcaagatgtt tcccttttatc atggaaggaa ccaaatccaa aaactctaag cagagagcag agtgcctgga agagctggga tgtctggttg agtcctatgg catgaatgtt tgccaaccaa ccccaggaaa agccttaaag gaaatagctg ttcacatagg agaccgtgac aatgctgtac gcaatgctgc actcaacacc attgtaacgg tgtacaatgt acatggggat caggtgttca aactgattgg aaatctttct gaaaaggata tgagcatgct cgaggagagg attaagcggt cagcaaagag accctctgct gcaccaatag aacaggtgga agagaaacct cagcgtgcac agaacataag ctccaatgcc aacatgttac gcaagggacc agctgaggac atgtcttcca aactcaacca agcccgaagc atgagtgggc atcctgaggc agcccagatg gtccgccgag aattccagct ggatctagat gagattgaga atgacaatgg tacagtccga tgtgaaatgc cagaacttgt tcagcacaaa ctggatgaca tttttgagcc agtccttatt cctgaaccca agatccgggc tgtttctcca cacttcgatg acatgcacag taatacagca tccacaatca atttcattat ctcccaagta gccagtggtg acatcaacac aagtatccaa gctctgacac agatcgatga ggtcctgaga caggaagaca aagctgaagc catgtccggc catattgatc agtttctgat agccactttt atgcagctaa gactcatcta caacacacac atggcagatg agaaattgga gaaggacgag atcatcaagt tgtatagctg tatcattggc aacatgattt cgctgtttca gatagagagc cttgcccggg aggcctccac tggagtacta aaagacctaa tgcatggcct catcacctta atgctggatt ctcggattga agatcttgag gaaggacaac aggtcatccg ctctgtgaac ctcttggtgg tgaaggttct ggagaagtca gaccagacca acatcctgag tgccctactt gttttgctcc aagacagcct gctagcaaca gccagttctc ccaaattctc agagcttgtt atgaagtgtc tctggagaat ggttcgactg ttgcctgata ccatcaatag cattaaccta gacagaattc ttctggatat ccacattttc atgaaggtct tccccaaaga gaaactgaag caatgcaaaa gtgaatttcc cataaggacc ctaaagaccc tgctacacac cttatgcaaa ttaaaagggc ccaagatcct ggaccaccta acgatgatcg acaacaaaaa cgagtctgag ctggaggccc atctctgccg gatgatgaag cacagtatgg accagactgg gagcaagtct gataaggaaa cagaaaaggg agcatctcga atagatgaaa aatcatcaaa ggccaaagtg aatgatttct tagctgagat ttttaagaag attggctcta aagaaaacac taaagaggga ctagcagagt tatatgaata taagaagaaa tactcagatg ctgacattga accatttctg aaaaattcct cacagttctt ccagagctat gtcgaaagag gccttcgggt gattgagatg gagagggagg gcaaaggtcg tatttccact tcaacaggca tctcccctca gatggaagtc acatgtgtgc ccacgcccac aagcacagtg tcctccatag gtaacacaaa tggggaagaa gtggggccat ctgtctactt ggaaaggcta aagatcctcc gacagcgatg tggtctggac aacacaaagc aagatgaccg acctcctttg acctctttgc tctccaaacc agcagttcct actgtcgcct cttccacaga catgctccac agcaaactct ctcagctccg ggagtcacgg gagcagcacc agcattcaga cctggattct aaccagactc actcttcagg aactgtgacc tcctcctcct ccacagctaa catagacgac ttgaaaaaaa gactggagag aataaagagc agtcgcaaat ga
Molecular Weight	226,258 Da
OMIM	611142
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CKAP5 cdna clone	MBS1278659 is a cDNA clone targeting CKAP5.
Other Notes	Small volumes of CKAP5 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKAP5. It may not necessarily be applicable to this product.

NCBI GI #	23272299
NCBI GeneID	9793
NCBI Accession #	BC035554
UniProt Secondary Accession #	Q05D70; Q0VAX7; Q0VAX8; Q14668; Q2TA89; Q6NSH4
UniProt Related Accession #	Q14008
NCBI Official Full Name	Homo sapiens cytoskeleton associated protein 5, mRNA
NCBI Official Synonym Full Names	cytoskeleton associated protein 5
NCBI Official Symbol	CKAP5
NCBI Official Synonym Symbols	TOG; MSPS; TOGp; CHTOG; ch-TOG
UniProt Protein Name	Cytoskeleton-associated protein 5
UniProt Synonym Protein Names	Colonic and hepatic tumor overexpressed gene protein; Ch-TOG
Protein Family	Cytoskeleton-associated protein
UniProt Gene Name	CKAP5
UniProt Synonym Gene Names	KIAA0097; Ch-TOG
UniProt Entry Name	CKAP5_HUMAN
NCBI Protein Information	cytoskeleton-associated protein 5
NCBI Summary for CKAP5	This gene encodes a cytoskeleton-associated protein which belongs to the TOG/XMAP215 family. The N-terminal half of this protein contains a microtubule-binding domain and the C-terminal half contains a KXGS motif for binding tubulin dimers. This protein has two distinct roles in spindle formation; it protects kinetochore microtubules from depolymerization and plays an essential role in centrosomal microtubule assembly. This protein may be necessary for the proper interaction of microtubules with the cell cortex for directional cell movement. It also plays a role in translation of the myelin basic protein (MBP) mRNA by interacting with heterogeneous nuclear ribonucleoprotein (hnRNP) A2, which associates with MBP. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
UniProt Comments for CKAP5	CKAP5: Binds to the plus end of microtubules and regulates microtubule dynamics and microtubule organization. Promotes cytoplasmic microtubule nucleation and elongation. Plays a major role in organizing spindle poles. Belongs to the TOG/XMAP215 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: cell-cell adherens junction; centrosome; cytosol; gamma-tubulin complex; membrane; microtubule cytoskeleton; protein complex; spindle pole Molecular Function: protein binding Biological Process: centrosome organization and biogenesis; establishment and/or maintenance of microtubule cytoskeleton polarity; G2/M transition of mitotic cell cycle; RNA transport; sister chromatid cohesion; spindle organization and biogenesis
Research Articles on CKAP5	**1.** Data show that cytoskeleton associated protein 5 (chTOG) only weakly promotes importin-regulated microtubule nucleation, but acts synergistically with microtubule- associated protein TPX2.
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