

## Product datasheet for **SC106049**

### ch TOG (CKAP5) (BC017856) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ch TOG (CKAP5) (BC017856) Human Untagged Clone
Tag:	Tag Free
Symbol:	CKAP5
Synonyms:	ch-TOG; CHTOG; colonic and hepatic tumor over-expressed; colonic and hepatic tumor over-expressed protein; cytoskeleton associated protein 5; FLJ35359; KIAA0097; MSPS; TOG; TOGp
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BC017856, the custom clone sequence may differ by one or more nucleotides

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GGCGGCCCAAGCGGTTTCAAACGGCTTAGAGCAGGCCGCTTGGTTCTGACCCAGCTGAGGAAATACTCTT  
AATTCTAAGGAAAACCTGGAAGCACAATGGGAGATGACAGTGAGTGGTTGAAACTGCCAGTTGATCAGAA  
ATGTGAACACAAGCTGTGGAAAGCAAGTTAAGTGGGTATGAAGAGGCCCTGAAGATCTTCCAGAAAATA  
AAGGATGAAAAGAGCCCAGAGTGGTCCAAATTTTAGGATTGATCAAAAATTTGCTACTGATTCCAATG  
CAGTGGTTCAATTGAAAGGATTAGAAGCTGCCTTGTATGTTGAAAATGCCCATGTAGCAGGAAAAAC  
CACAGGAGAAGTTGTGTCAGGTGTGTAAGTAAGGTGTTCAATCAACCTAAAGCTAAAGCCAAGGAGCTG  
GGCATAGAGATCTGTCTTATGTACATAGAGATTGAGAAAGGAGAGGCTGTCAAGAAGAGCTCCTGAAAG  
GCTTGGACAATAAGAATCCCAAGATCATAGTGGCCTGTATAGAGACTGAGGAAAGCCTTAAGTGAATT  
TGGTTCCAAAATCATCTTGCTTAAGCCAATTATCAAAGTGTGCCAAAACCTTTTGAGTCTCGAGAGAAG  
GCTGTTTCGAGATGAAGCCAAACTAATTGCTGTGGAGATTTACAGATGGATTCCGGGATGCTCTGAGACCC  
CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC017856 unedited NNGGGGTGCACATTTGTATACGACTCATATAGGCGGCCGCAAATTCGCACGAGGGCGGG GTGTGCGGCGGCCAAGCGGTTTCAAACGGCTTAGAGCAGGCCGCTTGTTCTGACCCAG CTGAGGAAATACTCTTAATTCTAAGGAAAACCTGGAAGCACAATGGGAGATGACAGTGAG TGGTTGAAACTGCCAGTTGATCAGAAATGTGAACACAAGCTGTGAAAGCAAGGTTAAGT GGGTATGAAGAGGCCCTGAAGATCTTCCAGAAAATAAAGGATGAAAAGAGCCCAGAGTGG TCCAAATTTTTAGGATTGATCAAAAAATTTGTCAGTATTCCAATGCAGTGGTTCAATTG AAAGGATTAGAAGCTGCACTTGTATTGTTGAAAATGCCATGTAGCAGGAAAAACCACA GGAGAAGTTGTGTCAGGTGTTGTAAGTAAGGTGTTCAATCAACCTAAAGCTAAAGCCAAG GAGCTGGGCATAGAGATCTGTCTTATGTACATAGAGATTGAGAAAGGAGAGGCTGTTCAA GAAGAGCTCCTGANAGGCTTGGACAATAAGAATCCCAAGATCATAGTGGCCTGTATAGAG ACACTGAGGAAAGCCTTAAGTGAATTTGGTTCCAAAATCATCTTGCTTAAGCCAATTATC AAAGTGTGCCAAAACCTTTGAGTCTCGAGAGAAGGCTGTTGAGATGAAGCCAAACTA ATTGCTGTGGGAGATTACAGATGGATTCNGGATGCTCTGAGACCCCATACAAAATAAA ACTCTGTTCAAGTGAAAAAAAGTGAAGAAGAATGGGTCANACTGCCAACAGTGCTCCT AGACCTACTCCGATTCTCCGTTCCACAAGAAGTGAAGCTAAATGGACCACACAGTCT GCTGGTGGAGATGCTGN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC017856
<b>Insert Size:</b>	7000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC017856.1</a> , <a href="#">AAH17856.1</a>
<b>RefSeq Size:</b>	731 bp
<b>RefSeq ORF:</b>	731 bp
<b>Locus ID:</b>	9793
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

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]