

## Product datasheet for **SC100855**

### ch TOG (CKAP5) (NM\_014756) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ch TOG (CKAP5) (NM_014756) Human Untagged Clone
Tag:	Tag Free
Symbol:	ch TOG
Synonyms:	ch-TOG; CHTOG; MSPS; TOG; TOGp
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014756, the custom clone sequence may differ by one or more nucleotides

```

ATGGGAGATGACAGTGAGTGGTTGAAACTGCCAGTTGATCAGAAATGTGAACACAAGCTGTGAAAGCAA
GGTTAAGTGGGTATGAAGAGGCCCTGAAGATCTCCAGAAAAATAAGGATGAAAAGAGCCAGAGTGGTC
CAAATTTTAGGATTGATCAAAAAATTTGCTACTGATTCCAATGCAGTGGTTCAATTGAAAGGATTAGAA
GCTGCACCTGTTTATGTTGAAAAATGCCCATGTAGCAGGAAAAACACAGGAGAAGTTGTGTCAGGTGTTG
TAAGTAAGGTGTTCAATCAACCTAAAGCTAAAGCCAAGGAGCTGGGCATAGAGATCTGTCTTATGTACAT
AGAGATTGAGAAAGGAGAGGCTGTTCAAGAAGAGCTCCTGAAAGGCTTGGACAATAAGAATCCCAAGATC
ATAGTGGCCTGTATAGAGACACTGAGGAAAGCCTTAAGTGAATTTGGTTCCAAAATCATCTTGCTTAAGC
CAATTATCAAAGTGTGCCAAAACCTCTTTGAGTCTCGAGAGAAGGCTGTTGAGATGAAGCCAAAACCTAAT
TGCTGTGGAGATTTACAGATGGATTTCGGGATGCTCTGAGACCCCATACAAAATATAAACTCTGTTTCAG
TTGAAAGAAGTAGAAGAAGAATGGGTCAAACCTGCCAACAGTGCTCCTAGACCTACTCGATTTCTTCGTT
CCCAACAAGAAGTAGAAGCTAAATTGGAACAACAACAGTCTGCTGGTGGAGATGCTGAAGGAGGTGGTGA
TGATGGTATGAGGTGCCACAAATAGATGCTTATGAGCTTTTAGAAGCTGTAGAAATCCTTTCCAAAACCT
CCCAAAGACTTTTATGACAAAATGAGGCAAAAAATGGCAAGAGAGAAAAAGAGGCCCTGGAGTCTGTAG
AAGTACTAATAAAAAACCCAAAACCTGGAAGCTGGCGATTATGCAGATTTAGTAAAAGCATTAAAGAAGGT
GTTTGGAAAGGACACCAATGTCATGTTGGTGGCTTTGGCAGCAAAATGCTTACTGTCCTGGCTGTTGGG
CTAAGGAAGAAAATTTGGACAATATGCAAGGACATGTTGTGCAACCATCTTGGAGAAAATCCAAAGAGAAGA
AACCTCAAGTGGTACAAGCCCTGCAGGAGGCAATTTGATGCAATCTTCTTACTACCACACTACAGAACAT
CAGTGAGGATGTTTTAGCAGTAATGGATAATAAAAAATCCAACCATCAAGCAGCAGACATCTCTTTTTATT
GCAAGAAGTTTCCGCCACTGCACTGCTTCTACCCTGCCAAGAGCTTGCTAAAGCCCTTTTGTGCTGCAC
TACTTAAGCACATCAATGATTCTGCTCCTGAAGTCAGAGATGCCGCATTTGAAGCATTGGTACTGCTTT
GAAGGTGGTTGGCGAGAAAGCAGTAAACCCATTCTAGCTGATGTGGACAAAACCTCAAGCTTGATAAGATC
AAAGAATGTTGAGAAAAGGTAGAAGTACATGTTAAGAAAGCTGGACTAGCTGCTGATAAGAAGGAAT
TCAAACCTCTGCCTGGAAGGACTGCTGCTTCAGGGGCTGCAGGAGATAAGGACACAAAGGACATTTCTGC

```



[View online »](#)

ACCCAAACCAGGACCTCTAAAAAGGCACCTGCTGCTAAGGCTGGTGGGCCACCAAAAAAGGGAAACCA  
GCTGCACCAGGAGGCGCAGGGAATACTGGAACCAAGAACAAGAAAGGACTGGAGACTAAAGAAATAGTGG  
AGCCTGAGCTCTCGATAGAAGTATGTGAAGAAAAAGCTTCAGCTGTTCTTCCCCCTACCTGTATACAGCT  
TCTTGACAGCAGTAACCTGGAAAGAAAGGCTGGCTTGTATGGAAGAGTTCAGAAAGGCTGTTGAGCTAATG  
GACCGAAGTGAATGCCATGCCAGGCATTAGTGAGGATGCTAGCCAAGAAACCTGGATGGAAGAAACTA  
ATTTTCAGGTGATGCAAAATGAAGCTTCATATAGTTGCTTTGATTGCCAGAAGGGAAATTTTCCAAAAC  
GTCAGCTCAGTTGTATTAGATGGCCTGTGGACAAGATTGGAGATGTGAAATGTGGGAACCAATGCCAAA  
GAAGCTATGACAGCAATAGCCGAAGCCTGTATGTTACCATGGACTGCTGAACAGGTTGTGTCAATGGCTT  
TCTCACAAAAGAATCCCAAAAATCAGTCAGAAAACCTGAATTGGCTATCAATGCCATAAAAAGATTGG  
TTTTTCTGGGTTGAATGTCAAAGCTTTCATTAGCAATGTGAAGACAGCTCTTGCTGCAACAAAACCCAGCT  
GTGAGGACTGCTGCCATAACCTGCTTGGCGTGATGTATCTGTATGTTGGTCCCTCTTTCGCAATGTTCT  
TTGAGGATGAGAAGCCTGCCCTCTATCCAGATAGATGCAGAATTTGAGAAGATGCAGGGACAAAGTCC  
ACCTGCTCCAACCAGAGGAATTTCCAAGCATAGCACAAGTGGTACAGATGAAGGAGAAGATGGAGATGAA  
CCAGATGACGGGAGCAATGATGTCGTTGATCTTTTCCGAGGACGGAGATCAGTGATAAAATCAGTTCAG  
AGTTGGTATCTAAGATTGGTGATAAGAATTGGAAGATTAGGAAAGAAGGCCTAGATGAAGTGGCAGGTAT  
TATTAATGACGCAAAATTTATCCAACCGAATATAGGTGAACCTCCAACCTGCTTGAAGGGTGCAGTCAAT  
GATTCAAATAAAATCTTGGTACAGCAAACGCTGAATATCCTGCAACAACCTGGCAGTAGCCATGGGCCAA  
ATATTAAGCAACATGTAAAAATTTAGGCATCCCTATCATCACAGTCTTGGAGACAGCAAGAACAATGT  
TCGAGCTGCTGCCCTAGCGACTGTGAATGCTTGGGCAGAACAGACTGGCATGAAGGAATGGCTGGAAGGA  
GAAGATCTTTCTGAAGAGCTCAAAAAGGAAAACTCTTTCTTGGAGCAAGAGCTTCTGGGCTGGCTGGCTG  
AGAAACTACCTACTCTTCGTTCCACCCCTACAGACCTTACCTTTGTGTTCTCTACTCTGCTGCTG  
ATAAGATCGAAATGGAGATGTGCGAAAGAAGGCCAAGATGCCTTGCCATTCTTCATGATGCATTTAGGA  
TATGAAAAAATGGCCAAGGCTACTGGGAAACTAAAGCCAATTTCTAAAGATCAGGTATTTGGCCATAG  
AGAAAGCCAAAGTTAACATGCCAGCCAAGCCTGCTCCACCCACTAAAGCAACTTCTAAACCAATGGGAGG  
GTCCGCTCCAGCCAAATCCAGCCTGCATCAGCACCTGCTGAAGATTGATTTTCCAGCAGTACAGAACCC  
AAACCTGATCCAAAAAGGCCAAAGCTCCAGGATTATCCTCTAAAGCAAAGAGTGCACAAGGGAAGAAGA  
TGCCAAGCAAACCAGCTTAAAGGAGGATGAAGACAAAACCGGGCCTATTTTTATTGTTGTTCCAAATGG  
AAAAGAGCAAAGGATGAAAGATGAAAAAGGATTGAAGGTGCTAAAGTGAATTTTACTACCCACGGGAT  
GAATACATTGAGCAACTAAAGACTCAAATGTCTAGCTGTGTGGCTAAATGGTTACAAGATGAGATGTTTC  
ACTCAGACTTTCAGCATATAACAAAGCCCTTGTGTTATGGTTGATCACTTGGAGAGTAAAAAGAAGG  
AGTTATTGGTTGCCTGGATCTTATCTTAAAGTGGCTTACCCTGAGGTTTTTTGACACCAATACAAGCGTC  
CTGATGAAAGCACTAGAATATTTAAAAATGCTCTTCACCTTGTAAAGTGAAGAAGATATCATCTTACTG  
AGAATGAAGCATCTTCTTCATCCCTATCTTGTGCTCAAGGTTGGAGAACCAAAGGATGTCATTGTA  
AGATGTTGCTGCCATCCTGAACCGGATGTGCCTTGTCTACCCAGCTAGCAAGATGTTTCCCTTTATCATG  
GAAGGAACCAATCCAAAAACTCTAAGCAGAGAGCAGAGTGCCTGGAAGAGCTGGGATGTCTGGTTGAGT  
CCTATGGCATGAATGTTTGCCAACCAACCCAGGAAAAGCCTTAAAGGAAATAGCTGTTCCACATAGGAGA  
CCGTGACAATGCTGTACGCAATGCTGCACTCAACACCATGTAACGGTGTACAATGTACATGGGGATCAG  
GTGTTCAAACCTGATTGGAATCTTTCTGAAAAGGATATGAGCATGCTCGAGGAGAGGATTAAGCGGTGAG  
CAAAGAGACCCCTGCTGCACCAATAAAACAGGTGGAAGAGAAACCTCAGCGTGCACAGAACATAAGCTC  
CAATGCCAACATGTTACGCAAGGGACCAGCTGAGGACATGTCTTCCAAACTCAACCAAGCCGAAGCATG  
AGTGGGCATCCTGAGGACGCCAGATGGTCCGCCGAGAATTCCAGCTGGATCTAGATGAGATTGAGAATG  
ACAATGGTACAGTCCGATGTGAAATGCCAGAACTTGTTCAGCACAAACTGGATGACATTTTTGAGCCAGT  
CCTTATTCCTGAACCAAGATCCGGGCTGTTTCTCCACACTTCGATGACATGCACAGTAATACAGCATCC  
ACAATCAATTTTATTATCTCCAAGTAGCCAGTGGTGACATCAACACAAGTATCCAAGCTCTGACACAGC  
TGTTTCAGATAGAGAGCCTTGGCCGGGAGGCTCCACTGGAGTACTAAAAGACCTAATGCATGGCCTCAT  
CACCTAATGCTGGATTCTCGGATTGAAGATCTTGAGGAAGGACAACAGGTGATCCGCTCTGTGAACCTC  
TTGGTGGTGAAGTTCTGGAGAAGTCAAGCAGACCAACATCCTGAGTGCCTACTTGTGTTTGTCTCAAG  
ACAGCCTGCTAGCAACAGCCAGTTCTCCAAAATCTCAGAGCTTGTATGAAGTGTCTCTGGAGAATGGT  
TCGACTGTTGCCATCAATAGCATTAACTAGACAGAATTCTTCTGGATATCCACATTTTCATG  
AAGGTCTTCCCAAGAGAAACTGAAGCAATGCAAAAAGTGAATTTCCATAAAGGACCCTAAAGACCTGCT  
TACACACCTTATGCAAAATTAAGGGCCCAAGATCCTGGACCACCTAACGATGATCGACAACAAAAACGA  
GTCTGAGCTGGAGGCCATCTCTGCCGGATGATGAAGCACAGTATGGACCAGACTGGGAGCAAGTCTGAT

AAGGAAACAGAAAAGGGAGCATCTCGAATAGATGAAAAATCATCAAAGGCCAAAGTGAATGATTTCTTAG  
 CTGAGATTTTTAAGAAGATTGGCTCTAAAGAAAACACTAAAGAGGGACTAGCAGAGTTATATGAATATAA  
 GAAGAAATACTCAGATGCTGACATTGAACCATTCTGAAAAATTCCTCACAGTTCTTCCAGAGCTATGTC  
 GAAAGAGGCCCTTCGGGTGATTGAGATGGAGAGGGAGGGCAAAAGTTCGATTTCCACTTCAACAGGCATCT  
 CCCCTCAGATGGAAGTACATGTGTGCCACGCCACAAGCACAGTGTCTCCATAGGTAACACAAATGG  
 GGAAGAAGTGGGGCCATCTGTCTACTTGGAAAGGCTAAAGATCCTCCGACAGCGATGTGGTCTGGACAAC  
 ACAAGCAAGATGACCGACCTCTTTGACCTCTTTGCTCTCCAAACCAGCAGTTCTACTGTCCGCTCTT  
 CCACAGACATGCTCCACAGCAAACCTCTCTCAGCTCCGGGAGTCAGGGGAGCAGCAGCAGCATTAGACCT  
 GGATTCTAACAGACTACTCTTTCAGGAAGTGTGACCTCTCTCTCCAGCTAACATAGACGACTTG  
 AAAAAAGACTGGAGAGAATAAAGAGCAGTCGCAATGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014756 unedited  
 GACTCCTATAGGCGGCCGGAATTCGGCACGAGGAAACTGCTTACAGCAGCCGCTTGGT  
 TCTGACCCAGCTGAGGAAATACTCTTAATTCTAAGGAAAACCTGGAAGCACAAATGGGAGA  
 TGACAGTGAGTGGTTGAAACTGCCAGTTGATCAGAAATGTGAACACAAGCTGTGGAAAGC  
 AAGGTTAAGTGGGTATGAAGAGGCCCTGAAGATCTCCAGAAAATAAAGGATGAAAAGAG  
 CCCAGAGTGGTCCAAATTTTTAGGATTGATCAAAAAATTTGCTACTGATTCCAATGCAGT  
 GGTTCAATTGAAAGGATTAGAAGCTGCACCTGTTTATGTTGAAAATGCCCATGTAGCAGG  
 AAAAACCCACAGGAGAAGTTGTGCATGTGTTGTAAGTAAGGTGTTCAATCAACCTAAAGC  
 TAAAGCCAAGGAGCTGGGCATAGAGATCTGTCTTATGTACATAGAGATTGAGAAAGGAGA  
 GGCTGTTCAAGAAGAGCTCCTGAAAGGCTTGGACAATAAGAATCCAAGATCATAGTGGC  
 CTGTATAGAGACTGAGGAAAGCCTTAAAGTGAATTTGGTTCCAAAATCATCTTGCTTAA  
 GCCAATTATCAAAGTGTGGCAAAACTCTTTGAGTCTCGAGAGAAGGCTGTTTCGAGATGA  
 AGCCAAACTAATTGCTGTGGAGATTTACAGATGGATTCCGGGATGCTCTGAGACCCCAT  
 ACAAATATAAATCTGTTCAGTTGAAAGAACTAGAAGAAGAAATGGGTCAAACCTGCCAAC  
 AAGTGCTCCTAGACCTACTCGATTNCTTCGTTCCCAACAGACTAGAAGCTAAATGGNAA  
 CACACAGTCTGCTGGTGGAAATGCTGAANGAGTGGTGATGATGTGATGAGTGCACAAATAG  
 AGCTATGAGCTTTAGAGCTGTAATAATCTTTCAACTTCCAANGATTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014756 unedited  
 GAGCACTGGGGCATGGGTACACGGCATGCCACCCGGTCTGATCAGAAAACAGCTATG  
 ACCGCGGCCGCAATCTAGAGACGAGTGTAAATTTATTTTTTCTTGACTAACGCAAAC  
 TTATTTATAAAACTCTTAAATTAATTGTATCATGCCGTGCATTACATACAGAATACAGT  
 GACCCCTCTGGGCCACAGATAAAATCTCACGCACTGAAAGGAAAACCTATTAAGAGTTTC  
 TCATCTTAACTATTAAGGCTAGGAAAGCTTATGACAATTTTACAAATGAGCAATTA  
 AAGAAAAGAAAAGGGTCTGGGAACTAGACTGATCAGAGAGGGGGCAGCTGTTTACAAGTC  
 TGTACACTAAAACATCCACGGACAGTCTTCTAAAGCAGCAGGACGCTGACAAAAGAGAAG  
 CAGAGTATGTACAAATCTTGTGCCACACTGACTCCTCCCCTAGCTGCGCGCATGATA  
 CATACAACCAGTTTGTATACACTAGGCCTGCTGAGGCCATTTTAACTATGAGGACTTCT  
 AGTTTATTAAGCTAAAGCTGCNCGGTGCCGGGAGAGTGGGGCAACTTCATTTGCCACTGC  
 TCTATATTCTCTCCGCTTTTTTTCAATCCTCTATGTTAGCTGTGGAGGAGGAAGGAGCC  
 ACATTTCTGAAGATTGAGTCTGGTAAAAACCAGGTCCGAACGCTGGCCCCGCTCCCCT  
 GACTTCCCGAACAAAAGATTTTGTGGCAAACCTTTCCCTAGAAAAGCCCAACTTTTTT  
 CCTTCTGGTTTTGAAACACAACACAATATTGGGGGAATCGTCTTCTTCGGTTCGATGT  
 CCAACGCACCCATTTTTTTCNACGTCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014756

**Insert Size:**

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="#">NM_014756.2</a> , <a href="#">NP_055571.2</a>
<b>RefSeq Size:</b>	6550 bp
<b>RefSeq ORF:</b>	5919 bp
<b>Locus ID:</b>	9793
<b>UniProt ID:</b>	<a href="#">Q14008</a>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment, compared to isoform a.</p>