

Product datasheet for **SC301391**

ch TOG (CKAP5) (NM_001008938) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ch TOG (CKAP5) (NM_001008938) 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: >OriGene sequence for NM_001008938 edited
AAACGGCTTAGAGCAGGCCGCTTGGTTCTGACCCAGCTGAGGAAACTCTTAATCTAA
GGAAAACCTGGAAGCACAAATGGGAGATGACAGTGAGTGGTTGAAACTGCCAGTTGATCAG
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TGCATGGCATGATACAATAATTAAGAGTCTTTTATAAATAAAGTTTGCATTAATACTAAA
AAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001008938
- Insert Size:** 6700 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001008938.1.
- 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_001008938.1](#), [NP_001008938.1](#)

RefSeq Size: 6714 bp

RefSeq ORF: 6099 bp

Locus ID: 9793

UniProt ID: [Q14008](#)

Cytogenetics: 11p11.2

Protein Families: 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]
Transcript Variant: This variant (1) encodes the longer isoform (a).