

## Product datasheet for **MG208828**

### **Ncaph2 (BC003900) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ncaph2 (BC003900) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ncaph2
Synonyms:	MGC6766
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208828 representing BC003900  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCTCATTGAGGCAGCACTGTTGATCCAGGCTCAGCCTGTGTCTACAGTAAGAAGGTGGAGTACC  
 TCTACTCGCTGGTCTACCAGGCTCTCGATTTTATTCTGGCAAGAGGCGGCCAAACAGCTCTCCTTAGT  
 TCAGGAAGATGGGAGCAAGAAGACTGTCAACTCAGAGACTCCCTGTGAAACAGAGAAATGAGTTCCCTGTCA  
 CTGGACGACTTCCTGACTCCCGGGCTAATGTGGATCTGAAAAATGATCAGGCATCCAGTGGAGTCTTAA  
 TCATACCCTACTGCCATGGCCCTGGTGGCCCTGATGAAGTGGAAAAGAACAGCAGCCCTTGTATAG  
 CTGTCAGGGTGACATCTGGCCAGCCGGAAGGATTTTCCAGGATGAACACGTGTATGCCTAACCCAGAGGC  
 TGCTTTATGTTAGATCCAGTGGGAATGTGTCCTGTGGAGCCTGTGGTCCCGTGGAGCCATACCCCATGT  
 CAAGGAGCCAGAAAGATCCTGAGGACGCTGAGGAGCAGCCATGGAAGTGTCTAGGAACGGGAGTCTGT  
 TCCTGTACCCGACATCTCCAAGAGCCAGATGGTCCAGCCTCAGCGGTGGAGAGGAGGATGCAGAGGAT  
 GGAGCAGAGCCCTGGAGTTGCTCTAGAGCCTGCAGAGCCAAGGACCTCACAGCAGAGTCCATCTTGC  
 CAAGGAGATACATGCTGCGGGAACGACAAGGGGACCCGGAGCCTGCCTCCCGGCTACAGGAGACCCAGA  
 CCCCTGGCAGAGCCTGGACCTTTTGAATCCTTGAATCTAAGGTCTTCCAGAAAGGAAACCCTATTCT  
 GTGCCACCCGGTGTGGAGGAGGCTCCAGGACAGAAGCGCAAGAGGAAGGGTGCCACCAAGTTGCAGGACT  
 TCCACAAGTGGTACCTGGATGCCTATGCTGAACACCTGACGGCAGGAGGGCTCGGCGGAAGGGCCCAAC  
 CTTTGCAGACATGGAAGTCTGTACTGGAACATGTGAAAGAACAGCTCGAGACCCTTCAAGAGTGGCG  
 AGACGTAAGATCAACGAGAGATGGTACCTGGGCAAGCAGGATCTGTGGCCTACAGAGGAGGATCGCT  
 TGAAGAGTCCCTCGAGGACCTCGGGTAGCAGATGACTTTCTAGAGCCGAGGAGTACGTGGAGGAGCC  
 TCGGGGGTGTGATGCCCGAGGAAGCTGCTGACCTCGATGCAGAGGCCATGCCAGAGTCCCTGAGATACGAG  
 GAGCTGGTCCGGAGAAATGTGGAACCTTTCATTGCCACCTCCAGAAAGTTTATCCAGGAGACAGAGCTGA  
 GCCAACGCATCAGGGACTGGGAAGATACCATCCAGCCCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTT  
 TGATATCCATATCTACGGGGACAGTTGGCTTCCAGGTTCCCGCAGCTCAATGAATGGTGTCCCTTTTCA  
 GAGCTTGTAGCAGGGCAGCCTGCTTTTGGGTGTGCCGCTCCATGCTGGCCTCCTTGCAACTGGCTAATG  
 ACTACACAGTGGAGATCACTCAGCAGCCAGGACTGGAGGCAGCTGTGGACACAATGTCTCTGAGACTGCT  
 CACACACCAGCGAGCCACACCCGCTTCCAGACCTATGCTGCACCATCCATGGCCAGCCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208828 representing BC003900  
 Red=Cloning site Green=Tags(s)

MNFIEAALLIQGSACVYSKKVEYL YSLVYQALDFISGKRRAKQLSLVQEDGSKKTVNSETPCETENEFLS  
 LDDFPDSRANVDLKNQASSELLIIPLLPMALVAPDEVEKNSSPLYSCQGDILASRKDFRMNTCMPNPRG  
 CFMLDPVGMCPVEPVVPEYPMRSRQKDPEDAEEQPMESVSRNGSPVPVDPISQEPDGPALSGGEEDAED  
 GAEPLEVALEPAEPRTSQQSAILPRRYMLRERQGAPEPASRLQETPDWQSLDPFDSLESKVFQKGPYS  
 VPPGVVEEAPGQKRKRKQATKLQDFHKWYLDAYAEHPDGRARRRGPTFADMEVLWKHVKEQLETLQKLR  
 RRKINERWLPQAKQDLWPTEEDRLEESLEDLGVADDFLEPEEYVEEPAGVMPEEAADLDAEMPESLRYE  
 ELVRRNVELFIATSQKFIQETELSQIRIDWEDTIQPLLQEQQHVFPDIHIYGDQLASRFPQLNEWCPFS  
 ELVAGQPAFEVCRSMLASLQLANDYTVEITQPPGLEAAVDMSLRLLTHQRAHTRFQTYAAPSMAQP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	BC003900
<b>ORF Size:</b>	1673 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">BC003900</a> , <a href="#">AAH03900</a>
<b>RefSeq Size:</b>	2063 bp
<b>RefSeq ORF:</b>	1673 bp
<b>Locus ID:</b>	52683
<b>Cytogenetics:</b>	15 44.84 cM
<b>Gene Summary:</b>	This gene encodes a component of the condensin-2 complex. The encoded protein may regulate the structure of mitotic chromosomes. Loss of function of this gene disrupts T-cell development. There are two pseudogenes for this gene on chromosome 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]