

## Product datasheet for **MG226596**

### Chuk (NM\_007700) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chuk (NM_007700) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chuk
Synonyms:	AI256658; Chuk1; Fbx24; Fbxo24; IKBKA; IKK1; Ikka; NFKBKA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG226596 representing NM\_007700  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGGCCCCCGGGGCTGCGGCCGGCGGGCGGCCCTGGGAGATGCGGGAACGGCTTGGCACCG  
 GCGGTTTCGGGAACGTCACTCTGTACCAGCACCGGAACTTGATCTCAAATAGCAATTAAGTCTTGTCG  
 TTTAGAGCTAAGTTCCAAAAACAGAGAGCGATGGTCCATGAAATCCAGATCATGAAAAAGTTGGACCAT  
 GCGAATGTTGTAAGGCCTGTGATGTCCCTGAGGAATTGAACTTTTTAATTAACGATGTGCCTCTTCTGG  
 CAATGGAGTACTGTTCTGGAGGGGACCTCCGGAAGCTACTCAACAAACCAGAAAATTGTTGTGGACTTAA  
 AGAAAGCCAGATACTTTCTTTACTGAGTGACATAGGATCTGGGATCCGATATCTGCATGAAAAACAAATT  
 ATACATCGAGATCTAAAACCTGAAAATATAGTTCTTCAAGATGTTGGTGGGAAGACAATACATAAAATAA  
 TTGATTTGGGTTATGCCAAGATGTTGATCAAGGAAGTCTCTGTACATCTTTGTGGGAACATTGCAGTA  
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 GTGTTTGAATGTATTGCTGGATATAGGCCTTTTTGCATCATCTGCAGCCATTTACTGGCATGAGAAGA  
 TTAAGAAGAAAGATCCAAAGTGTATTTGTCATGTGAAGAGATGACTGGAGAAGTTCGGTTTAGTAGCCA  
 TTTACCTCAGCCAAACAGCCTTTGTAGTTAATAGTAGAGCCAATGGAAGCTGGCTCCAATTGATGCTG  
 AATTGGGACCCACAGCAGAGAGGGGGACCTATTGATCTTACTTTGAAGCAGCCAAGATGTTTTGCATTAA  
 TGGATCACATTCTCAATTTAAAGATAGTGCACATCCTAAATATGACTTCTGCAAAAATCATTCTTTTCT  
 GTTACCATGTGATGAAAGTCTTCATTCACTACAGTCTCGAATTGAGCGTGAACAGGAATAAATACAGGT  
 TCTCAGGAGCTTCTGTGAGAGACAGGGATTTCTCTGGATCCTCGGAAACCAGCCTCTCAGTGTGTCTAG  
 ATGGAGTTAGAGGCTGTGATAGCTACATGGTTTATTTGTTTGTAAAAGTAAGACTGTATATGAAGGACC  
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 TCTTCCAGGGACAAGAGCAGCAATGTTAAGTCTTCTTAGATATAATGCTAACTTGACAAAAATGAAGAA  
 TACTTTGATCTCAGCATCACAGCAACTCAAAGCTAAATTTGGAGTTTTTTTCGAAAAAGCATTACAGCTTGAC  
 TTGGAGAGATATAGTGAGCAGATGACTTATGGGATATCTTCAGAAAAATGTTAAAAGCATGGAAGAAA  
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 GAGCAGCGTGCCATTGATCTCTATAAGCAGCTAAAGCACAGACCTCCTGATCACTTGTACAGCGACAGCA  
 CAGAGATGGTGAAGATCATCGTGACACCGTGCAGAGTCAGGACCGTGTCTCAAGGAGCTGTTTGGTCA  
 CCTGAGCAAGTTGTTGGGCTGCAAGCAGAAGATTATTGATCTACTCCCAAGGTGGAAGTGGCCCTCAGT  
 AACATCAAAGAAGCTGACAATACTGTCTGTTTATGCAGGGAAAGAGGCAGAAAGAAATTTGGCACCTCC  
 TTAATAATTGCCTGTACACAGAGTTCTGCCCGCTCTCTTGTAGGATACAGTCTAGAAGGCACAGTAACCCC  
 TCCAGTATCAGCATGGCTGCCCCCTACATTAGCAGACCGTGAACATCCTCTGACATGTGTGGTAACCTCT  
 CAAGATGGAGAGACGTTAGCACAAATGATAGAAGAAAATCTGAACTGTCTTGGCCATTTAAGTACTATTA  
 TTCGTGAAGCAAATGAGGACCAGAGCAGTAGTTTGTATGAGTCTTGATTGGAGTTGGTTAGCAGAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >MG226596 representing NM\_007700  
 Red=Cloning site Green=Tags(s)

```
MERPPGLRPGAGGPWEMRERLTGGFGNVSLYQHRELDLKI AIKSCRLELSSKNRERWCHEIQIMKKLDH
ANVVKACDVPPEELNFLINDVPLLA MEYCSGGDLRKL LNKPENCCGLKESQILSLLSDIGSGIRYLHENKI
IHRDLKPENIVLQDVGGKTIHKIIDLGYAKDVDQGLCTSFVGT LQYLAPELFENKPYTATVDYWSFGTM
VFECIAGYRPFLLHHLQPFTWHEKIKKKDPKCIFACEEMTGEVRFSSHL PQPNSLCSLIVEPME SWLQML
NWDPQQRGGPIDLTLKQPRCFALMDHILNLKIVHILNMTSAKII SFLLPCDESLHSLQSR IERETGINTG
SQELLSETGISLDPRKPASQC VLDGVRGCD SYMVYLFDKSKTVYEGPFASRSLSDCVNYIVQDSKIQLPI
IQLRKVWAEAVHYVYSGLKEDYSRLFQGGQRAAML SLLRYNANLTKMKNTLISASQQLKAKLEFFR KSIQLD
LERYSEQMTYGISSEKMLKAWKEMEKA IHYSEVGVIGYLEDQIMSLHTEIMELQKSPYGRRQGDLMESL
EQRAIDLKYLKHRPPDHLYS DSTEMVKIIVHTVQSQDRVLKELFGHL SKLLGCKQKIIDLLPKVEVALS
NIKEADNTVMFMQGRQKEIWHLLKIACTQSSARSLVGY SLEGTVTPPVSAWLPPTLADREHPLTCV VTP
QDGETLAQMIEENLNCLGHLSTIIREANEDQSSSLMSLDWSWLA E
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_007700

**ORF Size:** 2235 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_007700.2](#), [NP\\_031726.2](#)

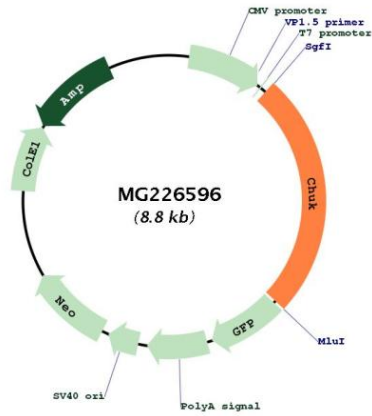
**RefSeq Size:** 3500 bp

**RefSeq ORF:** 2238 bp

**Locus ID:** 12675

**Cytogenetics:** 19 36.71 cM

Product images:



Circular map for MG226596