

## Product datasheet for **MG202693**

### **Cmpk1 (NM\_025647) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cmpk1 (NM\_025647) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cmpk1  
**Synonyms:** 0610011D08Rik; CK; Cmpk; UMP-CMPk  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202693 representing NM\_025647  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGCAGCTGTCGTCGGCTGCTCCCGCACGTCTGGTCCCGAGCTGCCCGCCGCTGACCCGCAGAC  
TGTGGCTCTTTCCTCTCCACCTCATGAAGCCGTTGGTCGTGTTTCGTTTTGGGCGGGCCCGGTGCGGGCAA  
GGGGACCCAGTGC GCGCGCATTGTCGAGAAATACGGCTACACACACCTTCTGCAGGAGAGCTTCTTCGT  
GATGAAAGGAAGAATCCAGACTCACAGTATGGTGAACCTATTGAAAAGTACATTAAGAAGGAAAGATTG  
TACCAGTTGAGATAACCATCAGTTTATTAAGAGGGAAATGGACCAACAATGGCTGCTAATGCTCAGAA  
GAATAAATCTTGATTGATGGATTTCCAAGAAATCAAGACAACCTTCAAGGTTGGAACAAAACCATGGAT  
GGAAAAGCAGATGTATCTTTTGTCTGTTTTTACTGTAATAATGAGATCTGTATTGAACGATGTCTTG  
AAAGGGGAAAAAGTAGTGGTAGGAGTGACGACAACAGAGAGAGCTTGAAAAGAGAATTCAGACTTACCT  
TGAATCAACGAAACCAATTATTGACTTATATGAAGAAATGGGGAAAGTCAAGAAGATAGATGCTTCTAAG  
TCTGTTGATGAAGTTTTTGGTGAAGTTGTGAAGTTTTTGACAAAGAAGGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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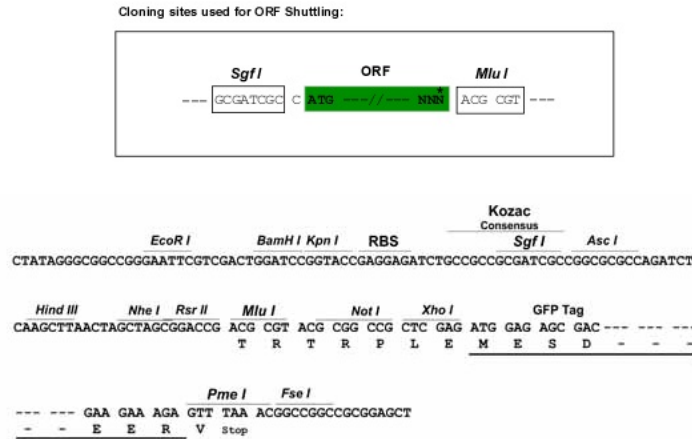
**Protein Sequence:** >MG202693 representing NM\_025647  
Red=Cloning site Green=Tags(s)

MLSSCRLLPHVLVPSCPPLTRRLWLFPLHLMKPLVVFVLGGPGAGKTQCARIVEKYGYTHLSAGELLR  
 DERKNPDSQYGELIEKYIKEGKIVPVEITISLLKREMDQTMAANAQKNKFLIDGFPRNQDNLQGWNKMD  
 GKADVSFVLFDCNNEICIERCLERKSSGRSDDNRESLEKRIQTYLESTKPIIDL YEEMGKVKKIDASK  
 SVDEVFGEVVKIFDKEG

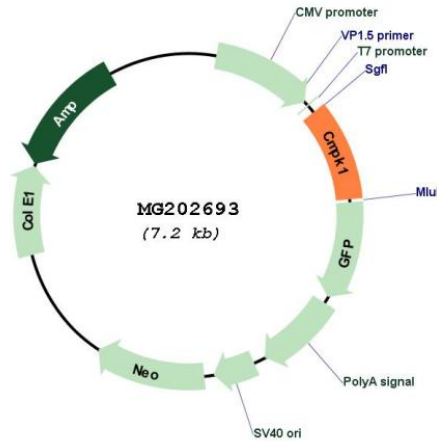
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_025647

**ORF Size:** 681 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="#">NM_025647.2</a> , <a href="#">NP_079923.2</a>
<b>RefSeq Size:</b>	1851 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	66588
<b>UniProt ID:</b>	<a href="#">Q9DBP5</a>
<b>Cytogenetics:</b>	4 D1
<b>Gene Summary:</b>	Catalyzes the phosphorylation of pyrimidine nucleoside monophosphates at the expense of ATP. Plays an important role in de novo pyrimidine nucleotide biosynthesis. Has preference for UMP and CMP as phosphate acceptors. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function]