

## Product datasheet for **MG201381**

### Cdkn2c (NM\_007671) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cdkn2c (NM\_007671) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cdkn2c  
**Synonyms:** C77269; INK; INK4c; p1; p18; p18-INK4c; p18-INK6; p18IN; p18INK4c  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201381 representing NM\_007671  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGAGCCTTGGGGAACGAGTTGGCGTCCGCAGCTGCCAGGGGGACCTAGAGCAACTTACTAGTT  
 TGTTGCAAATAATGTAACGCTCAACGCTCAAAATGGATTTGGGAGAACTGCGCTGCAGTTATGAACT  
 TGGAAATCCGGAGATTGCCAGGAGGCTTCTCTCAGAGGTGCTAATCCCAATTTGAAAGATGGAAGTGGT  
 TTTGCTGCATTCATGATGCTGCCAGAGCAGGTTTCTGGACACTGTACAGGCTTTGCTGGAGTTCCAGG  
 CTGATGTTAACATTGAAGATAATGAAGGGAACCTGCCCTTGCACTGGCTGCCAAAGAAGGCCACCTCCC  
 TGTGGTGGAGTTCCTTATGAAGCACACAGCCTGCAATGTGGGGCATCGGAACCATAAGGGGGACACCGCC  
 TTCGACTTGCCAGGTTCTATGGAAGAAATGAGGTCATTAGCCTGATGGAGGCAAATGGGGTTGGGGGAG  
 CCACAAGCCTGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201381 representing NM\_007671  
 Red=Cloning site Green=Tags(s)

MAEPWGNELASAAARGDLEQLTSLQNNVNVNAQNGFGRALQVMKLGNPEIARRLLLRGANPNLKDGTG  
 FAVIHDAARAGFLDTVQALLEFQADVNIEDNEGNLPLHLAAKEGHLPVVEFLMKHTACNVGHRNHKGDTA  
 FDLARFYGRNEVISLMEANGVGGATSLQ

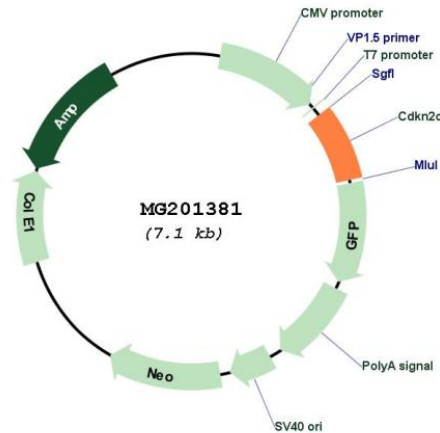
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_007671

**ORF Size:** 504 bp

**OTI Disclaimer:** 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.

<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>	<u><a href="#">NM_007671.3</a></u>
<b>RefSeq Size:</b>	1119 bp
<b>RefSeq ORF:</b>	507 bp
<b>Locus ID:</b>	12580
<b>UniProt ID:</b>	<u><a href="#">Q60772</a></u>
<b>Cytogenetics:</b>	4 51.32 cM
<b>Gene Summary:</b>	The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase (cdk) inhibitors, and contains five ankyrin repeats. This protein interacts with both Cdk4 and Cdk6 to inhibit their kinase activities, and prevent their interactions with D-type cyclins, thereby negatively regulating cell division. This gene is differentially expressed in a variety of tissues, and is cell cycle regulated. Deletion of this gene can lead to tumor growth. Maximal expression is observed at the G2/M phase. Alternative splicing and promoter usage results in multiple transcript variants. [provided by RefSeq, Aug 2014]