

## Product datasheet for **MG211335**

### 1500010J02Rik (BC060629) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	1500010J02Rik (BC060629) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	1500010J02Rik
Synonyms:	RP23-19I2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211335 representing BC060629  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACACTTGGTGAATTAGCCCAAGCTGGCAGCCAGGTGCCATCATTGTACAGATCCCTGCTCAGATGG  
 TGTGGCACCGAGTCTCCGGCCTGGCAGGGCCTATGACTGACAAAATTGCAAGTAACCAAGACCCGGAT  
 TCACCTTTCTGTATTTGGACAACCATTCCATCTTCAACTCTGAAGCCTCTGAGACCAGGTTATGTGCAA  
 GAGCTGGAGCTGGACTTAGAGTTCTCGAAAGCTGACCTTAAACCACCACCCAGCCACCAGCTCCAAAG  
 ACAGCAGAGGGCAAGAAGGTCTTGTCCGGGCTTCAAAGTCTTGCAATATTTGGGAACAGTCACTGCTGT  
 GTTGCATGAGTCTGCCGGCCTACATTCTAGATGGCAGCTGATTCTCTGCCTCGCATAACCAGAAGATC  
 CATGGCCTCAGGGGGTTATTCCAGCAGGGGTCTGTCTGGAGCTCCGAGATGTTTCATCTCCTCCAGGCAG  
 TGGGTGGAGCAACAACAAAACCTGTCTGGCCTCTGTCTCCATGGCACTGTTCCGGCTTCAAGGCTTTTC  
 TTGCTTAAGCCTCTGACTTTGCCGTCTCCAAGTTTATGGTGCCTCCTGTATGAGCAACTCGTGTGG  
 AAATGTACAGTTAGGACTTCCCTTATACTTATGGGCTGCCAAGACCCTGGAGGATCTCATCTACAAGCTGT  
 GTCCCCATGTGTTGAGATGTCACCAAGTTCCTGAAGCAACCCTCTCCTGGGAAGCCAGCTTGGGCCTGCA  
 GCTCCTGGCTCCCTCCTGGGATGTTCTGATTCCACCTGGCAGCCCATGCGGCATGCGTACAGCGAGATC  
 CTGGAAGAACCACACAACCTGCCCTTCCAGAAATACACTCCACTCGAGACTCCCTACTCTTTCCCTACTA  
 TGCTCGCCTGGCAGAGGAAGGGCAGCAGAGGGCTTGGGCTACTTTTGACCCAAAGGCCATGCTGCCTCT  
 CCCAGAAGCCAGTCACTGACCAGCTGCCAAGTGAATCGCCACCTAGCCTGGTCTGGTCTGTCTGCCA  
 TCCTGTGTGTTCCAGCCAGCCAGGTTTACTTGGGGTCTGGTGGCTTCATCTCGTAAAGGTTGTCTGG  
 AGCTTCGGGATCAAGAGGTTCACTGCCTTGATCCCCCTTGACTGAGAGTTCACAGCCCTATTGACCC  
 GAATCTCGTAGGCTGCCTGGTGCGGGTAGAGAAGTTCCAGTTGGTAGTAGAGAGAGAAGTCAGGAGCAGC  
 TTCCTTCTGGGAGGAGATGGGCATGGCAGCTTCATCCAGAAGAAGCAGGCCAGAGTCTACGTCCAGT  
 TCTACCTGGCTGATGCCCTGATCCTGCCGTGCCAGACCCACCTTTGGTTCAGAACCATCTCAGACAGC  
 CTCCTCCTGCCAGAGGGACCCACCTGGGACAGAGCCGGCTGTTCTTACTGTCCACAAGGAGGCCCTC  
 ATGAAACGTAATTTTGTCTCCTCCGGGAGACAGTTCACAACCTGCAAAGCCACCTTGAGTTTCCACG  
 TGTGAGGAACCTGGCTTTGTGGCACACAGAGGAAGGAAGTTCGGATGGAGCCACCCGAGTCTCTGGC  
 CGTTGAGAGCAAGGATCAGAAGGTTTCTCATCTTTCTTGGCTCTTCAGTTCGATGGTTTCCGTTCTTG  
 TACCCAAACCAAGTCTACCGACTCGTGGCTTCCGGCCCTCACAGACACCAGTGTTCGAGACAGAGGGCT  
 CAGCTGGCACCTCTCGAGTCTCCTGGAAGTGGCTGACTGTGGATCTTGCCTCACTGTCCAAGAGGAGTG  
 GACCTGGAGCTTGGGAGCTCTCAGGACATACCTAATGTACTGGAGGTCCCTAGAACACTGCCCGAGTCC  
 TCACTGGCCAGCTGCTCGGTGACAACCTCCCCGATTCTTGGTATCTTCTCTGCTGAGATTTTGTCTC  
 GGATACTGTGTGAACCACCTCTGGCCCTTCCGGGATGAAACCTGGGAATGCTGGGGCTATTAACACAGG  
 TGTGAAGTAACAGTAGCTCTAGAAAATGGATGACTGTGAATATCCCCCTCACCTGGACATATATATCGAA  
 GATCCACAGTTGCCTCCCCAAATAGGACTCCTTCCAGGAGCCGAGTCCACTTTAGCCAGCTGGAGAAA  
 GGATTTCCAGATCCAACATTGTTACTGTTGTTCCGGTCATCCACTTCTGTGCAGGTCCTGAGCTTCCC  
 CCCAGAGACCAAAGCCAGTGTCTCTGCCACATCTATCTGGCTGAACCTTCCAAGGTGACCCGGCCT  
 CCTTCCAGGCCACTACCTCTTGCCATATTGTGTATGTCCTGAGCCTTCCAGATCCTGTGGGTGTGTGCTC  
 ATTGCACCAAGCATCTGCCCCAGGGTAAGTGTAGTCCGGGACCCAGTTGTCCATCTCAGAGGGCTGT  
 AAGCCAGGCCAACATCAGGCTCCTGGTAGAAGATGGCACCCGAGAAGCGACGGTATCTGTAGGAATCAT  
 CTTGTGGCAAGGGCACTAGGGCTGAGTCTAGTGTGAGTGGTCTCCATCCTCGAGCATGCCAGGGGCGG  
 GGAGAGTGGCCTTGCAAGTTTACAGGGCTAGGAGGCCAAACAGAGTCTGCAAGCAAACCCATGAGCCCTT  
 GACCCTGCTCCTCCGACACTTTGTACCAGCCCTTTGTCCTCCGACCCGTTAAGCTTTCTTTGCACTT  
 GAAAGGAGACCCACTGATATTTCCACAGAGAACCGTCCCGGCTGCAGCAGTTCAGTGTGGAGAGCTCC  
 CTCTGCTGACCAGAGTGAATCCAGGCTCCGACTGGTCTGCCTTCTCTGAGGAGCCGGAGCTCCCCAA  
 CCCTCCACAAGCATCTGTGCTTCGTCT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211335 representing BC060629  
 Red=Cloning site Green=Tags(s)

MTLGELAQAGSQVSIIVQIP AQMVWHRVLRPGRAYVLT KLQVTKTRIHLSCIWTTIPSS TLKPLRPGYVQ  
 ELELDLEFSKADLKPPPQPTSSKDSRGQ EGLVRASKVLHYLGTAVLHESAGLYILDGQLILCLAYQKI  
 HGLRRVIRPGVCL ELRDVHLLQAVGGATKPV LALCLHGTVRLQGF SCLKPLTLPSSKVY GASLYEQLVW  
 KCQLGLPLYLWAAKTLEDLIYKLC PHVLRCHQFLKQPSGKPSLGLQLLAPSWDVLIPP GSPMRHAYSEI  
 LEEPHNCPLQKYTPLQTPYSFPTMLALAE EGQHRAWATFDPKAMLPLPEASHLTSCQLNRHLAWSWVCLP  
 SCVFQPAQVLLGVLVASSRKGCL ELRDLRGSLPCIPLTESSQPLIDPNLVGCLVRVEKFQLVVEREVRSS  
 FPSWEEMGMARFIQKKQARVYVQFYLA DALILPVP RPFTFGSEPSQTASSCPEGPHLGQSRLFLLSHKEAL  
 MKRNFCLLPGDSSQPAKPTLSFHVSGTWL CGTQRKEGSGWSPPE SLAVESKDQKVFLIFLGSSVRWF PFL  
 YPNQVYRLVASGPSQTPVFETE GSA GTSRRPLELADCGSCLTVQEEWTL ELGSSQDIPNVLEVPRTL PES  
 SLAQLLDGNSPDSLVSFSAEILSRILCEPPLALRRMKPGNAGAIKGVKLTVALEMDDCEYPPHLDIYIE  
 DPQLPPQIGLLPGARVHFSQLEKRISRSNIVYCCFRSSTS VQVL SFPPE TKASAPLPHIYLAELLQGRP  
 PFQATT SCHIVYVLSLQILWVCAHCTSI CPQGKCSRRDPSCPSQRAVSQANIRLLVEDGTAEATVICRNH  
 LVARALGLSPSEWSSILEHARGPGRVALQFTGLGGQTESASKTHEPLTLLRLTCTSPFVLRPVKLSFAL  
 ERRPTDISPREPSRLQQFQCGELPLLTRVNPRLRLVCLSLQPELNPQQASAASS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

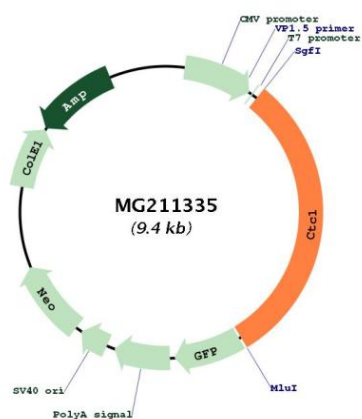


ACCN: BC060629

ORF Size: 2901 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="#">BC060629.1</a>
<b>RefSeq Size:</b>	3247 bp
<b>RefSeq ORF:</b>	2900 bp
<b>Locus ID:</b>	68964
<b>Cytogenetics:</b>	11 B3
<b>Gene Summary:</b>	Component of the CST complex proposed to act as a specialized replication factor promoting DNA replication under conditions of replication stress or natural replication barriers such as the telomere duplex. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves. Initially the CST complex has been proposed to protect telomeres from DNA degradation (PubMed:19854130). However, the CST complex has been shown to be involved in several aspects of telomere replication. The CST complex inhibits telomerase and is involved in telomere length homeostasis; it is proposed to bind to newly telomerase-synthesized 3' overhangs and to terminate telomerase action implicating the association with the ACD:POT1 complex thus interfering with its telomerase stimulation activity. The CST complex is also proposed to be involved in fill-in synthesis of the telomeric C-strand probably implicating recruitment and activation of DNA polymerase alpha. The CST complex facilitates recovery from many forms of exogenous DNA damage; seems to be involved in the re-initiation of DNA replication at repaired forks and/or dormant origins. Involved in telomere maintenance. Involved in genome stability (By similarity). May be involved in telomeric C-strand fill-in during late S/G2 phase (PubMed:22748632).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG211335