

Product datasheet for **MR211335**

1500010J02Rik (BC060629) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1500010J02Rik (BC060629) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1500010J02Rik
Synonyms:	RP23-19I2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR211335 representing BC060629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACACTTGGTGAATTAGCCCAAGCTGGCAGCCAGGTGCCATCATTGTACAGATCCCTGCCTCAGATGG
 TGTGGCACCGAGTCTCCGGCCTGGCAGGGCCTATGTAAGTACAAAATTGCAAGTAACCAAGACCCGGAT
 TCACCTTTCTGTATTTGGACAACCATTCCATCTTCAACTCTGAAGCCTCTGAGACCAGGTTATGTGCAA
 GAGCTGGAGCTGGACTTAGAGTTCTCGAAAGCTGACCTTAAACCACCACCCAGCCACCAGCTCCAAAG
 ACAGCAGAGGGCAAGAAGGTCTTGTCCGGGCTTCAAAGTCTTGCAATATTTGGGAACAGTCACTGCTGT
 GTTGCATGAGTCTGCCGGCCTACATTCTAGATGGCAGCTGATTCTCTGCCTCGCATAACCAGAAGATC
 CATGGCCTCAGGGGGTTATTCCAGCAGGGGTCTGTCTGGAGCTCCGAGATGTTTCATCTCCTCCAGGCAG
 TGGGTGGAGCAACAACAAAACCTGTCTGGCCTCTGTCTCCATGGCACTGTTCCGGCTTCAAGGCTTTTC
 TTGTCTTAAGCCTCTGACTTTGCCGTCTCCAAGTTTATGGTGCCTCCTGTATGAGCAACTCGTGTGG
 AAATGTACAGTTAGGACTTCCCTTATACTTATGGGCTGCCAAGACCCTGGAGGATCTCATCTACAAGCTGT
 GTCCTTATGTGTTGAGATGTCACCAAGTTCCTGAAGCAACCCTCTCCTGGGAAGCCAGCTTGGGCCTGCA
 GCTCCTGGCTCCCTCCTGGGATGTTCTGATTCCACCTGGCAGCCCATGCGGCATGCGTACAGCGAGATC
 CTGGAAGAACCACACAACCTGCCCTTCCAGAAATACACTCCACTCGAGACTCCCTACTCTTTCCCTACTA
 TGCTCGCCTGGCAGAGGAAGGGCAGCAGAGGGCTTGGGCTACTTTTGACCCAAAGGCCATGCTGCCTCT
 CCCAGAAGCCAGTCACTGACCAGCTGCCAAGTGAATCGCCACCTAGCCTGGTCTGGTCTGTCTGCCA
 TCCTGTGTGTTCCAGCCAGCCAGGTTTACTTGGGGTCTGGTGGCTTCATCTCGTAAAGGTTGTCTGG
 AGCTTCGGGATCAAGAGGTTCACTGCCTTGTATCCCCCTTGACTGAGAGTTACAGCCCTATTGACCC
 GAATCTCGTAGGCTGCCTGGTGCGGGTAGAGAAGTTCCAGTTGGTAGTAGAGAGAGAAGTCAAGGAGCAGC
 TTCCTTCTGGGAGGAGATGGGCATGGCAGCTTCATCCAGAAGAAGCAGGCCAGAGTCTACGTCCAGT
 TCTACCTGGCTGATGCCCTGATCCTGCCGTGCCAGACCCACCTTTGGTTCAGAACCATCTCAGACAGC
 CTCCTCCTGCCAGAGGGACCCACCTGGGACAGAGCCGGCTGTTCTTACTGTCCACAAGGAGGCCCTC
 ATGAAACGTAATTTTGTCTCCTCCGGGAGACAGTTCACAACCTGCAAAGCCACCTTGAGTTTCCACG
 TGTGAGGAACCTGGCTTGTGGCACACAGAGGAAGGAAGGTTCTGGATGGAGCCACCCGAGTCTCTGGC
 CGTTGAGAGCAAGGATCAGAAGGTTTCTCATCTTTCTTGGCTCTTCAAGTTCGATGTTTCCGTTCTTG
 TACCCAAACCAAGTCTACCGACTCGTGGCTTCCGGCCCTCACAGACACCAGTGTTCGAGACAGAGGGCT
 CAGCTGGCACCTCTCGAGTCTCCTGGAAGTGGCTGACTGTGGATCTTGCCTCACTGTCCAAGAGGAGTG
 GACCTGGAGCTTGGGAGCTCTCAGGACATACCTAATGTACTGGAGGTCCTAGAACACTGCCCGAGTCC
 TCACTGGCCAGCTGCTCGGTGACAACCTCCCCGATTCTTGGTATCTTCTCTGCTGAGATTTTGTCTC
 GGATACTGTGTGAACCACCTCTGGCCCTTCCGGGATGAAACCTGGGAATGCTGGGGCTATTAACACAGG
 TGTGAAGTAACAGTAGCTCTAGAAATGGATGACTGTGAATATCCCCCTCACCTGGACATATATATCGAA
 GATCCACAGTTGCCTCCCCAAATAGGACTCCTTCCAGGAGCCGAGTCCACTTTAGCCAGCTGGAGAAA
 GGATTTCCAGATCCAACATTGTTACTGTTGTTCCGGTCACTTCTGTGCAGGTCCTGAGCTTCCC
 CCCAGAGACCAAGCCAGTGTCTCTGCCCCACATCTATCTGGCTGAACCTTCCAAGGTGACCCGGCT
 CCCTTCCAGGCCACTACCTCTTGCCATATTGTGTATGTCCTGAGCCTTCAAGTCTGTGGGTGTGTGCTC
 ATTGCACACAGCATCTGCCCCAGGGTAAGTGTAGTCCGGGACCCAGTTGTCCATCTCAGAGGGCTGT
 AAGCCAGGCCAACATCAGGCTCCTGGTAGAAGATGGCACCCGAGAAGCGACGGTATCTGTAGGAATCAT
 CTTGTGGCAAGGGCACTAGGGCTGAGTCTAGTGTGAGTGGTCTCCATCCTCGAGCATGCCAGGGGCCGG
 GGAGAGTGGCCTTGCAAGTTTACAGGGCTAGGAGGCCAAACAGAGTCTGCAAGCAAACCCATGAGCCCTT
 GACCCTGCTCCTCCGACACTTTGTACCAGCCCTTTGTCCTCCGACCCGTTAAGCTTTCTTTGCACTT
 GAAAGGAGACCCACTGATATTTCCACAGAGAACCGTCCCGGCTGCAGCAGTTCAGTGTGGAGAGCTCC
 CTCTGCTGACCAGAGTGAATCCAGGCTCCGACTGGTCTGCCTTCTCTGAGGACCCGGAGCTCCCCAA
 CCCTCCACAAGCATCTGTGCTTCGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

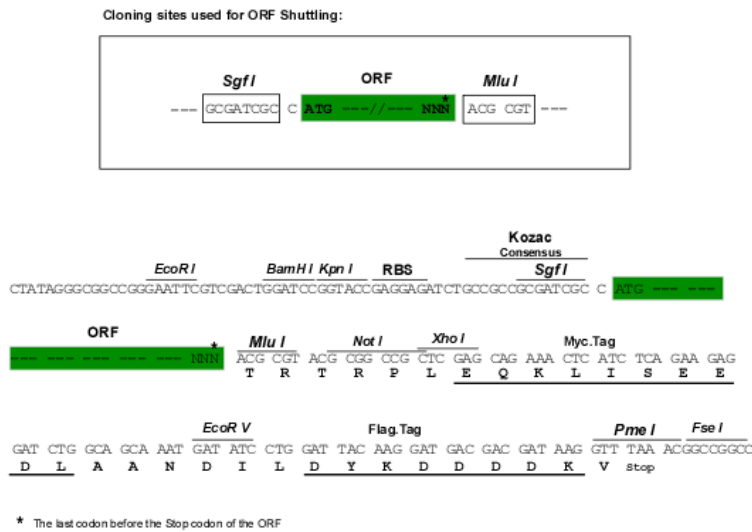
Protein Sequence: >MR211335 representing BC060629
 Red=Cloning site Green=Tags(s)

MTLGELAQAGSQVSIIVQIP AQMVWHRVLRPGRAYVLT KLQVTKTRIHLS CIWTTIPSS TLKPLRPGYVQ
 ELEDLDEF SKADLKPPPQPTSSKDSRGQ EGLVRASKVLHYLGTAVLHESAGLYILDGQLILCLAYQKI
 HGLRRVIRPGVCL ELRDVHLLQAVGGATKPV LALCLHGTVRLQGF SCLKPLTLPSSKVVYASLYEQLVW
 KCQLGLPLYLWAAKTLEDLIYKLC PHVLRCHQFLKQPSGKPSLGLQLLAPSWDVLIPP GSPMRHAYSEI
 LEEPHNCPLQKYTPLQTPYSFPTMLALAE EGQHRAWATFDPKAMPLPEASHLTSCQLNRHLAWSWVCLP
 SCVFPQAQVLLGVLVASSRKGCL ELRDLRGSLPCIPLTESSQPLIDPNLVGCLVVRVEKFQLVVEREVRSS
 FPSWEEMGARFIQKKQARVYVQFY LADALILPVP RPTFGSEPSQTASSCPEGPHLGQSRLFLLSHKEAL
 MKRNFCLLPGDSSQPAKPTLSFHVSGTWL CGTQRKEGSGWSPPE SLAVESKDQKVFLIFLGSSVRWF PFL
 YPNQVYRLVASGPSQTPVFETEGSAGTSRRPLELADCGSCLTVQEEWTLELGSSQDIPNVLEVPRTLPE S
 SLAQLLDGNSPDSLVSFSAEILSRILCEPPLALRRMKPGNAGAIKGVKLTVALEMDDCEYPPHLDIYIE
 DPQLPPIGLLPGARVHFSQLEKRISRSNIVYCCFRSSTS QVLSFPPE TKASAPLPHIYLAELLQGRDP
 PFQATT SCHIVYVLSLQILWVCAHCTSI CPQGKCSRRDPSCPSQRAVSQANIRLLVEDGTA EATVICRNH
 LVARALGLSPSEWSSILEHARGPGRVALQFTGLGGQTESASKTHEPLTLLLR TLTCTSPFVLRPVKLSFAL
 ERRPTDISPREPSRLQQFQCGELPLLTRVNPRLRLVCLSLQEP ELPNPPQASAASS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

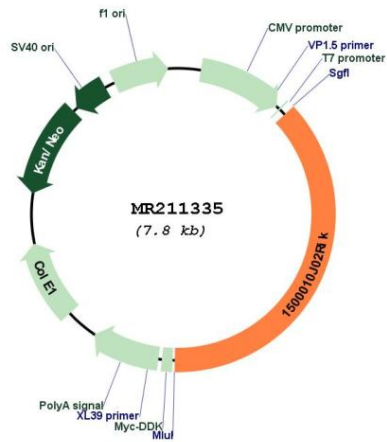


ACCN: BC060629

ORF Size: 2898 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.
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:	<ol style="list-style-type: none">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:	BC060629.1
RefSeq Size:	3247 bp
RefSeq ORF:	2900 bp
Locus ID:	68964
Cytogenetics:	11 B3
MW:	106.6 kDa
Gene Summary:	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 MR211335