

## Product datasheet for **MG211559**

### Timeless (BC058641) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Timeless (BC058641) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Timeless
Synonyms:	tim, Debt69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211559 representing BC058641 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTGTACATGATGAACTGTGAACTCTAGCCACGTGTAGCGCCCTTGGTACTTGAAGGAGGGA  
CTTACCACAAGGAGCCGATTGCCTGGAGAGTGTGAAGGATTTGATCCGATACCTGAGGCACGAGGATGA  
GACCCGAGATGTGCGGCAGCAGCTGGGAGCTGCACAGATCCTGCAGAGCGACCTCCTGCCAATCCTCAGC  
CAGCATCGCCAGGACAAGCCTCTCTCGATGCCGTGATCAGGCTGATGGTAAATTTGACACAGCCAGCCT  
TGCTCTGTTTTGGCAGCGTGCCTAAGGACTCCAGTGTACGGCACCATTTCTGCAGTTCTAACGTACCT  
GCAAGCCTACAAAGAGGCCCTTTGCCAGTGAGAAGGCATTTGGAGTCTCAGCGAGACCTTGATGAATTG  
CTACAGCTGGGCTGGGAGGATCGCAAGAAGAACAACCTTGCTGATCGAGCGGATCCTTCTGCTGGTCA  
GAAATATTCTCCATGTCCCGCCAACCTTGAGCAGGAGAAGAGTATCGATGATGATGCCAGCATCCACGA  
CCGTCTCCTTTGGGCAATTCACCTCAGTGGCATGGACGACTTGCTCCTCTTCTGTCCAGCTCATCCGCC  
GAGCAGCAGTGGAGCCTCCATGTGCTGGAGATCATCTCCCTCATGTTCCGAGACCAGACCCTGAGCAGC  
TAGCGGGAGTAGGGCAGGACGCTTGCTCAGGAGCGAAGCAGGATGTGGCAGAATTGGAGGTGCTGCC  
CCAACGGGAGATGGCGGAGAAGAGAGCTCGGGCCCTCCAGCGAGGAAACAGGCACCTCTCGATTTGGGGC  
TCCTACATTGTCCAGGGTTGAAATCTATTGGGAGAAGGATGTCGTCTTTCACAAGGCCTTCACAATC  
TCCAGAACTACAGCTCAGATCTGGGAAAGCAGCCAGGAGGGTGCCCAAGCGTCTCAGGCTGCCAGGA  
GCTGTCTGTCCATCGCCGCTCTGTCTGAATGTGAGACTTTCCTCAGAGACTTCTGCTCTGAGTTCCTG  
GAGAACTGCTACAACCCGCTCATGGGCGCGGTCAAGGATCATCTGCTTCGGGAGAGAGCGCAGCAGCATG  
ACGAGACTTACTACATGTGGCAATGGCTTTCTTCATGGCCTTCAACCGAGCTGCCACCTTCGCCCCGG  
CCTTGTCTGAGACCCTCAGTATCCGTACCTTCACTTTGTGGAGCAGAACCTCACCACTACTACGAG  
ATGATGCTGACAGACCGCAAGGAGGCCCTCCTGGGCGCGCAGGATGCACCTGGCCCTGAAGGCCATACC  
AGGAGCTGCTGGCCACGGTGAACGAGATGGACATGTGCCAGATGAGGCTTTAGGGAGAGCAGTCGAT  
CATCAAAAACAACATTTCTATATGATGGAGTACCGAGAATATTCCTGGCGCTCTTTCGAAAGTTGAT



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GAGAGATACCATCCACGCTCATTCTTCGAGACCTGGTGGAAACCACCCACCTTCTCTCAAAATGTTGG  
 AGCGCTTTTGCCGGAGCCGCGGGAACCTGATGGTGCAGAACAAAAGAAAAAGAGAAAAAGAAAAAGAA  
 GGTTCCAGGACCAGGGTGTGCTTCTCACAAAGCCCCGGGAGCTGGAGGCCATGTGCCAGCCCTGGCA  
 GAGCAGCTGCTGCAGTGTGCCAGGACCCTGAGCTCAGTGTGGACCCCGTTCGTTCCCTTTGATGCGGCT  
 CAGAGGTGCCAGTGGAGGAGCAGCGGTAGAAGCCATGGTGAAGATCCAAGACTGCCTACGGCTGGCCA  
 GGCCCCGAAGCCCTGGCCCTCCTGCGGTCTGCCGGGAAGTGTGGCCTGAAGGAAATGCGTTTGGCTCT  
 CCAGTCATTTCCCAGGGGAAGAAATGCAGTTGCTGAAACAAATCCTCTCCACGCCCTTCCCAGGCAGC  
 AGGAGCCAGAAGAAGGAGATGCAGAGGAGGAAGAGGAAGAGGAGGAAGAGGATACAGGTGGTCCA  
 GGTGTGAGAGAAGGAGTTAACTTTCTGGAATACCTGAAACGCTTCGCATCCTCAACCATCGTCCGGCC  
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 ACCGGCTGGCCATGGCCTGGGGATGGAAGCCCTGCTTTTCCAGCTGTCCCTGTTCTGCCTTCAATCG  
 GCTGCTTAGTGACCCAGCTGTGCGGCCTACAAAGAGCTAGTGACTTTTGCCAAATACATCATTGGCAAG  
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 TGGCCTGGCCGACAGCGTCAAGGAGTTCAGAAGAGGAAGGGACCCAGATTGTCTTGTGGACGGAGGA  
 CCAGGAGCTGGAGTTACAGCGGCTCTTTGAGGAGTTCGGGACTCTGATGATGTTCTTGGTCAAATCATG  
 AAGAATATCACAGCCAAACGTTACGGGCTCGAGTAGTGGACAACTGTTGGCCCTGGGGTGGTGTCTG  
 AGCGGAGGCAGCTATAACAAGAACGGAGAAAGAAGCTGGCGCCTTCTTGCATGAATGGAGAAAAGTCCCC  
 GAGAGACCCCTGGCAGGAAGATCCGGAAGAGGAGCCAGAGCCAGGAGTCCCCGGAGAGCAGGGTCCCAGT  
 GAGGAGCACCCGACAGAAGCCCTGAGAGCCCTTCTGTGAGCCGTAAGAGGAAAGCAGGCCTGGGCCTA  
 CAGAAGAGGAGGCCACTGGGAGGAAGAATGGAAGTCAAGCAGCCCAAGAAGCGGCAACTGCTGGACAGCGA  
 CGAAGAGGAAGATGATGAGGGGAGGAGCAAGCAGTGTCCGGAACGCCAAGAGTCCACAGGAAGAAACGG  
 TTTAGATTGAGGATGAGGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211559 representing BC058641  
 Red=Cloning site Green=Tags(s)

MDLYMNCCELLATCSALGYLEGGTYHKEPDCLESVKDLIRYL RHEDETRDVRQQLGAAQILQSDLLPILT  
 QHRQDKPLFDAVIRLMVNLTQPALLCFGSVPKDSVRHHFLQVLYLQAYKEAFASEKAFVLSSETLYEL  
 LQLGWEDRQEEDNLLIERILLVNRILHVPANLEQEKSIDDDASIHDRLLWAIHLSGMDLLLLFLSSSSA  
 EQQWSLHVLEIISLMFRDQTPEQLAGVGGRLAQERSTDVAELEVELRQREMAEKRRALQRGNRHSRFGG  
 SYIVQGLKSI GEKDVVFKGLHNLQNYSSDLGKQPRRVPKRRQAAQELSVHRRSVLNVRLFLRDFCSEFL  
 ENCYNPLMGAVKDHLRERAAQHDETYMWAMAFMAFNRAATFRPGLVSETLSIRTFHFVEQNL TNYE  
 MMLTDRKEAASWARRMHLAL KAYQELLATVNMEDMCPDEAVRESSRI IKNNIFYMMEYRELFALFRKFD  
 ERYHPRSFRLDLVETTHLFLKMLERFCRSRGNLMVQNKRRKRRKKKVVQDQGVAFSQSPGELEAMWPALA  
 EQLLQCAQDPELSDVPVVPFDAASEVPVEEQRVEAMVRIQDCLTAGQAPALALLRSAREVWPEGNFSGS  
 PVISPGEMQLLKQILSTPLPRQPEEGDAEEEEEEEEELQVVQVSEKEFNFLYELKRFASSTIVRA  
 YVLLLSYRQNSAHTNHCIAKMLHRLAHLGMEALLFQLSLFCLFNRLSDPAAAAYKELVTFKYIIGK  
 FFALAAVNQAFVELLFWKNTAVVREMTQGYGSLDSGSSSHRAPLWSPEEEAQLQELYLAKHDVEGQDVV  
 ETILAHLLKVVPRTRKQVIHHLVRMGLADSVKEFQKRKGTQIVLWTEDELELQRLFEEFRSDDDLQIM  
 KNITAKRSRARVVDKLLALGLVSERRQLYKRRRKLAPSCMNGEKSPRDPWQEDPEEEPEPGVPEQGPS  
 EEHRTEALRALLSARKRKAAGLPTEEEATGEEWNSAPKKRQLLSDSEEDDEGRRAVSGTPRVHRKRR  
 FQIEDEDD

TRTRPLE - GFP Tag - V

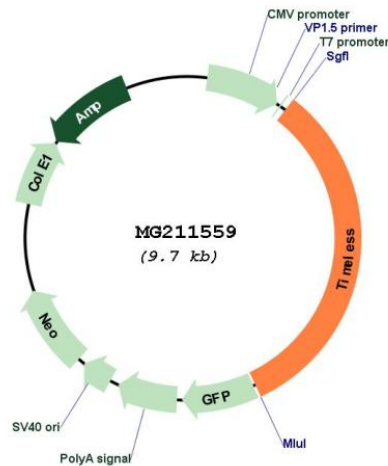
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: BC058641

ORF Size: 3176 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>BC058641, AAH58641</u>
<b>RefSeq Size:</b>	4002 bp
<b>RefSeq ORF:</b>	3176 bp
<b>Locus ID:</b>	21853
<b>Cytogenetics:</b>	10 76.49 cM
<b>Gene Summary:</b>	The protein encoded by this gene is highly conserved and is involved in cell survival after damage or stress, increase in DNA polymerase epsilon activity, maintenance of telomere length, and epithelial cell morphogenesis. The encoded protein also plays a role in the circadian rhythm autoregulatory loop, interacting with the PERIOD genes (PER1, PER2, and PER3) and others to downregulate activation of PER1 by CLOCK/ARNTL. Changes in this gene or its expression may promote prostate cancer, lung cancer, breast cancer, and mental disorders. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]