

Product datasheet for **SC117684**

TIMELESS (NM_003920) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIMELESS (NM_003920) Human Untagged Clone
Tag:	Tag Free
Symbol:	TIMELESS
Synonyms:	hTIM; TIM; TIM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003920, the custom clone sequence may differ by one or more nucleotides

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ATGGACTTGCACATGATGAACTGTGAACTCTAGCCACATGTAGTGCCCTTGGGACTTGGAGGGAGACA  
CTTACCATAAGGAACCAGATTGCTTAGAGAGCGTGAAGGATCTGATCCGCTATTTGAGGCATGAGGATGA  
GACACGAGATGTGCGGCAGCAGCTGGGGCAGCCAGATCCTACAGAGCGACCTTCTGCCATCCTCACC  
CAGCACCACCAGGACAAGCCTCTCTTTGATGCTGTTATCAGACTGATGGTGAACCTTGACACAACCAGCCT  
TGCTCTGTTTTGGCAATCTGCCTAAGGAGCCCAGCTTTCGGCACCATTTTTGCAGGTGCTAACTTATTT  
GCAGGCCACAAAGAGGCCCTTGGCAGTGAGAAGGCTTTGGAGTCCTCAGTGAAACCTTGATGAGCTG  
CTGCAGCTGGGCTGGGAGGAACGGCAGGAGGAAGACAACCTTGCTGATTGAACGGATCCTACTGCTGGTCA  
GAAATATTCTCCATGTCCCAGCTGACCTTGATCAGGAGAAGAAGATTGATGATGACGCCAGTGCCCATGA  
CCAGCTCCTCTGGGCGATTACCTCAGCGGCCTGGATGACCTGCTCCTCTTTCTGGCCAGCTCGTCTGCT  
GAGGAGCAATGGAGCCTACATGTGCTAGAGATTGTCTCCCTTATGTTTCGTGACCAGAACCCCGAGCAGC  
TGGCGGGAGTAGGGCAGGGACGCTTAGCTCAGGAGCGGAGTGCAGATTTGCAGAACTGGAGGTGTTGCG  
CCAGCGAGAGATGGCAGAAAAGAAGACTCGAGCCCTCCAGCGAGGCAACAGGCATTCTCGATTTGGGGGC  
TCCTATATTGTCCAGGGGTTGAAATCCATTGGGGAGAGGGACCTCATCTTTCACAAAGGCCTTACAACC  
TACGAACTACAGTTCAGATTTGGGAAAGCAGCCGAAAAGGTGCCTAACGTCGCCAGGCCGCCGAGAG  
GCTGTCCATTACGCGCCCTCTGCCCTCAATGTGAGGCTCTTCCCTCAGAGACTTCTGCTGAGTTCCTG  
GAGAACTGTTACAACCGGCTCATGGGATCAGTAAAGGATCACCTGCTTCGGGAGAAAAGCTCAGCAGCATG  
ATGAGACCTATTATATGTGGCCTTGGCTTTCTTCATGGCCTTCAACCGAGCTGCCTCCTTCCGGCCAGG  
CCTGGTTTCTGAGACCCTCAGTGTCCGTACCTTCCACTTCATTGAGCAGAACCTCACCACTACTATGAG  
ATGATGCTGACTGACCGCAAGGAAGCTGCCTCCTGGGCACGCCGATGCACCTGGCTCTGAAGGCCATC  
AGGAGCTGCTGGCAACAGTGAATGAGATGGACATATCTCCAGATGAGGCTGTGAGGGAGAGCAGCCGCAT  
CATCAAGAACAATATTTCTATGTGATGGAGTACCGAGAATCTCCTGGCACTTTTTCGAAAGTTTGTG  
GAGAGATGCCAGCCCCGCTTTTCTTCGTGACCTGGTGGAGACCACCCACCTCTTCTCAAATGTTGG  
AGCGATTCTGTCGGAGCCGTGGGAACCTGGTGGTGCAGAACAAAAGAAAGAGAAGGAAGAAGAAGAA
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GAAGGTCCTAGACCAGGCCATTGTTTCTGGTAATGTCCCATCTAGCCAGAAAGTGGAGGCTGTGTGG
 CCAGCCCTGGCTGAGCAGCTACAGTGTGTGCCAGAATTCTGAGCTCAGCATGGACTCCGTGGTCCCT
 TTGATGCGGCCTCAGAGGTGCCAGTGGAGGAGCAGCGGCAGAAAGCTATGGTACGGATCCAAGACTGTCT
 CCTGGCTGGCCAGGCCACAGGCCCTGACTCTCTGAGGTCTGCTCGGGAGGTGTGGCCTGAAGGAGAT
 GTGTTTGGCTCTCAAGACATTTCTCCAGAGGAAGATCCAGTTGCTGAAACAAATCCTCTCTGCTCCAC
 TTCCCCGGCAGCAGGGCCAGAGGAACGTGGGGCAGAGGAAGAAGAAGAGGAGGAGGAGGAAGAGGA
 GGAGTTGCAAGTGGTCCAGGTGTCCGAGAAAGAATTTAATTTTCTGACTACCTGAAACCTTTGCATGT
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 CAGAGCACCTACATGGAGCCCCGAAGAAGAGGCTCATCTCGGGAGCTGTACCTCGCAATAAAGGACGTG
 GAAGGGCAGGATGTGGTGAAGCCATCTTGGCCACCTGAATACTGTTCTCGAACCGCAAGCAGATCA
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 AAATGGAGCGGAGTCCCTGAAAGATTTTGGCAGGAAGATCTGGAAGAAGAGGAAAACTGCCTGAGGAA
 GACAGCGAAGAGGAAGAAGAAGGGGGCTCAGAAGCAGAACAAGTCCAGGGTAGCTTAGTCTTTCAAATG
 AAAACCTTGGTCAAAGCTGCATCAGGAAGGCTTTTCTATCCCGCTCCTATGGCTCCAGAAGTGCCTGAT
 CCGAGCAGCTGATGATCGGAAGAGGATGGTCTCCAGGCCGTTCCATTGGTCCACTCACAGAGGAA
 AATGAGGAAGCCATGAAAACGAACAGTTTCAGCAGCTGTTGCGCAAGCTAGGGGTTTCGGCCCCCTGCCT
 CTGGGCAGGAAACCTTCTGGCGAATTCAGCCAAAGCTGAGTCTCCTACCCAGCTCCGGAGGGCAGCAGTTC
 TTTGAGTCAACCAGAGGAGGAACAGAAGCTGCAGCCAGAGCTGCAGCCTAAAGTCCCTGGAGAGCAAGGC
 TCTGATGAGGAGCACTGTAAGAGCACCCAGCACAAGCCCTGAGGGCCCTCTTGCTAGCCACAAGAAGA
 AAGCGGGCTGGCATCCCAGAGGAGGAAGACGCTGTTGGTAAAGAGCCGCTGAAGGCAGCACCCAAGAA
 ACGACAATTGCTGGACAGCGACGAGGAACAGGAAGAAGATGAGGGCAGGAACAGAGCACCAGAGTTGGGA
 GCTCCAGGAATCCAAAAGAAGAAACGATACCAGATTGAGGATGATGAGGATGACTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003920 unedited
 GTATTTTGTAAATACGACTTACTATAGGGCGGCCGGAATTCGGCACCAGCTCCTCCGGGC
 TTCTGAGGACCCGCAGGGAGCGGCCTCATATTTCTGTCTCCTGTTTCTCCACTTCCTT
 CTCTATTGGTTGGTCCACTGATGTATGGACTTGCACATGATGAACTGTGAACTTCTAGCC
 ACATGTAGTGCCTTTGGTACTTGGAGGGAGACACTTACCATAAGGAACCAGATTGCTTA
 GAGAGCGTGAAGGATCTGATCCGCTATTTGAGGCATGAGGATGAGACACGAGATGTGCGG
 CAGCAGCTGGGGCAGCCAGATCCTACAGAGCGACCTTCTGCCATCCTCACCCAGCAC
 CACCAGGACAAGCCTCTCTTTGATGCTGTTATCAGACTGATGGTGAACCTTGACACAACCA
 GCCTTGCTCTGTTTTGGCAATCTGCCTAAGGAGCCAGCTTTCGGCACCATTTTTTGCAG
 GTGCTAACTTATTTGCAGGCCTACAAAGAGGCCTTTGCCAGTGAGAAGGCTTTTGGAGTC
 CTCAGTGAACCTTGTATGAGCTGCTGCAGCTGGGCTGGGAGGAACGGCAGGAGGAAGAC
 AACTTGCTGATTGAACGGATCCTACTGCTGGTCAGAAATATTCTCCATGTCCCAGCTGAC
 CTTGATCAGGAGAAGAAGATTGATGATGACGCCAGTGGCCATGACCAGCTCCTCTGGGGC
 ATTACCTCAGCGCCTGGATGACCTGCTCCTTTCTGGCCAGCTCGTCTGCTGAGGAG
 CAATGGAGCCTACATGTGCTAGAGATTGCTCCCTTATGTTTCGTGACCAGAAACCCGAG
 CAGCTGTCCGGAAGTAGGCCAGGNACGCTTACTCAGGAGCGNAGTGCAGATTTTGCAGAA
 CTGTNAGTATTGCCCCCGAGAGATGGCAGAAAGCAGATCGAGCCTTCCAGCGAGCCAC
 AGGCATTCTCGATTG

Gene Summary:

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. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).