

## Product datasheet for **RN207370**

### Timeless (NM\_031340) Rat Untagged Clone

#### Product data:

|                           |                                                                                 |
|---------------------------|---------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                             |
| Product Name:             | Timeless (NM_031340) Rat Untagged Clone                                         |
| Tag:                      | Tag Free                                                                        |
| Symbol:                   | Timeless                                                                        |
| Synonyms:                 | Tim                                                                             |
| Mammalian Cell Selection: | Neomycin                                                                        |
| Vector:                   | pCMV6-Entry (PS100001)                                                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                            |
| Fully Sequenced ORF:      | >RN207370 representing NM_031340<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTTGTACATGATGAAGTGTGAAGTCTAGCCACTTGTAGCGCCCTTGGTACTTGAAGGAGGCA  
CTTACCACAAGGAGCCGACTGCTTGGAGAGTGTGAAGGATTTGATCCGATACCTGAGGCATGAGGACGA  
GACTCGAGATGTGCGGCAGCAGCTGGGAGCCGCGCAGATCCTGCAGAGTGATCTCCTGCCAATCCTCACC  
CAGCACCGCCAGGACAAGCCTCTCTTTGATGCTGTGATCAGGCTGATGGTAAATTTGACTCAGCCAGCCT  
TGCTCTGTTTTGGCAGCGTGCCTAAGGACCCACTGTACGACACCATTTCTGCAGGTTCTAACCTACCT  
GCAGGCCCTACAAAGAGGCCTTTGCCAGTGAAAAGGCATTTGGAGTCCTCAGCGAAACCTTGATGAGCTA  
CTGCAGCTGGGCTGGGAGGATCGCAAGAAGAAGACAAGTCTGCTGATTGAACGGATCCTTCTGTTGGTCA  
GAAATATTCTCCATGTCCAGCCAACCTTGAGCAGGAGAAGAGGATCGATGACGATGCCAGCATTATGA  
CCGGCTTCTGTGGGCAATTCACCTCAGTGGCATGGACGACTTGCTCCTCTTCTGTCAGCTCATCCGCT  
GAGCAGCAGTGGAGCCTCCATGTGCTGGAGATCATCTCCTCATGTTCCGAGACCAGAAGCCTGAGCAGC  
TGGCAGGAGTAGGGCAGGACGCTTGGCTCAGGAGCGAAGCACAGATTTGGCAGAATTGGAAGTGTGCG  
CCAACGGGAGGTGGCCGAGAAGAGAGCCCGAGCCCTGCAGCGAGGAAACAGGCACTCTCGATTTGGGGGC  
TCCTATGTTGTCCAGGGTTGAAATCTATTGGGAGAGGGATGTCGTCTTTCACAAAGGCCTTCACAACC  
TCCAGAACTACAGCTCAGATCTAGGAAAGCAGCCCGAGGGTGCCTAAGCGTCGTCAGGCTGCCAGGA  
GCTGTCTGTCCATCGCCGCTCTGTCTGAATGTGAGGCTCTTCTCAGAGACTTCTGCTCTGAGTTCTCTG  
GAGAACTGTTACAACCCACTCATGGGTGAGTCAAGGATCACCTGCTTCGGGAGAAAGCTCAGCAACATG  
ATGAGACGTAATCATGTGGCGATGGCTTTCTTTATGGCCTTCAACCGAGCTGCTGCCTTCCGCCCTGG  
CTTTGTCTCTGAGACCCTCAGTATCCGGACCTTCACTTTGTGGAGCAGAACCTCACCACTACTATGAG  
ATGATGCTGACAGACCGCAAGGAGGCCCTCTGGGCACGAGGATGCACCTGGCTCTGAAGGCCTATC  
AGGAGCTGCTGGCCACAGTGAATGAGATGGACATGTGCCAGACGACGCTGTGAGGAGAGCAGTCGCAT  
CATCAAAAACAACATTTTCTACATGATGGAGTACCGAGAAGTATTCTGGCACTTTTCGAAAATTCGAT



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GAGAGATACCATCCACGTTCAATTCCTTTGTGACCTGGTGGAGACCACTCACCTCTTCCTCAAAATGTTGG  
 AGCGCTTCTGTGCGGAGCCGAGGGAACCTGATGGTGCAGAACAAAAGAAAGAGAAAAAGAAAAAGAA  
 GGCCAGGAGCAGGGTGTGCTTCTCACGTAGCCCTGAGGAGCTGCAGGCCATGTGGTCAGCGCTGGCA  
 GAGCGGCTGCTGCAGTGCGCCAGGAACCTGAGCTCAGTGTGGACTCCATCATTCCCTTTGATGCGGCCT  
 CAGAGGTGCCAGTGGAGGAGCAGCGGTAGAAGCTATGGTGAGGATCCAAGACTGCCTTGTGGCTGGCCA  
 GGCCCCGAAGCCTTGGCCCTCCTGCGGTCTGCCCGGAAGTGTGGCCTGAAGGAAATGTGTTTGGCTCT  
 CCAGTCATTTCCCGAGGGAAGAAATGCAGTTGCTAAAACAAATCCTCTGCAACCTTCCCGGCAGC  
 AAGAGCCAGTAGAAGGAGATGCAGAGGAGGAAGATGAAGAGGAGGAGGAGGAGGAAGAGGAGGAGTTACA  
 GGTGGTCCAGGTGTGAGAGAAGGAGTTTAAATTTTTGGACTACTTGAAACGCTTTGCATGCTCAACCATT  
 GTGCGAGCCTATGTGCTTCTCCTGCGGAGCTACCGGCAGAACAGCGCTCACACCAACCACTGCATCGCCA  
 AGATGTGTCACCGGCTGGCCATGACCTGGGGATGGAAGCCCTGCTTTTCCAGCTCTCCCTGTTCTGCCT  
 CTTCAACCAGCTACTCAGTGACCCAGCGCTGCAGCCTACAAAGAGCTAGTGACTTTTGCCTAATACATC  
 CTCGGAAGTTCTTTGCGTTGGCTGCAGTGAACCAGAAAGCATTTGTGGAGCTGCTGTTCTGGAAGAACA  
 CCTCGGTGGTTTCGGGAAATGACCCAGGGATATGGCTCCCTTGACAGTGGGTCTTGACGCCACAGAGCCCC  
 TGTGTGGAGCTCTGAGGAAGAGGCCAGCTTCAAGAACTATACCTCGCCACAAGGATGTAGAAGGTCAG  
 GATGTAGTGGAGACCATCTTGGCACACCTGAAAGCTGTCCCTCGGACACGCAAGCAGGTCAATCCACCATC  
 TGGTACGCATGGGCTGGCCGACAGTGTCAAGGACTTCCAGAGGAAAGGACCCAGATTGTCTTGTGGAC  
 AGAGGATCAGGAGCTGGAGTTACAGCGGCTCTTTGAGGAGTTCCAGGATTCGATGATGTTCTTGGTCAT  
 ATCATGAAGAATATCACAGCCAAACGTTACGGGCTCGAGTAGTGGACAAACTGTTGGCCCTGGGACTCG  
 TGTCGAGCGCAGGCAACTGCACAAGAACGAGGAAGAAGCTGGCGCCCTCTTGATGCAGAATGGGGA  
 AGAGTCCCAGAGAGATGCTTGGCAGGAAGATCCAGAAGAAGAAGGAAAAAGAGGCTTGCCAGAGAGT  
 GAGGGTGAGGAGAACGAGGAAGACTTGTAGCAGGACAGGTCCAGGGCAGCTCATCTCTTTCTGCTGAAA  
 ACCTCCGTCAGAGCCTTTGTGACGACGGCTCTCTGCTCCCTCCTGTGGCTCCAGAGCTCCCTGATTCTG  
 CGCAGCAGATGACCGAGAAGAGGATGGCTGCTCCAGGCCATCCCTCTGGTGCCTTGACGGAAGAAAAAT  
 GAGGAAGCAATGGAGAACAACAGTTTACGATCTGCTACGTAAGCTAGGAATCCGGGCCCTGCTCAG  
 GACAGGAAACCTTCTGGCGAATTCCAGCCAACTGAGCTCCACCCAGCTTCGAGAGTGGCTGCTTCTCT  
 GAGTGAGCGAGAAAAAAGGAGGAAAGAGAGGAGGAGCCAGAGCCGAATCCAGGAGTCCCTGGAGAGCAG  
 AGTCCAGTGAGGAGCACCAAGTGAGAGCCCCGAGAGCCCTTTTGTGAGCTCGTAAAGGAAAGCAGGCC  
 TGGTGTTCCTAAAAGAGGAGGCCACTGGGAGGAAGAATGGAATCGGTGCCTAAGAAGCAGCAACTGCT  
 GGACAGCGACGAAGAGGACACGACGAGAGGGGAGGCAAGCAGCAGTGTGCGGAACCTGAGAATC  
 CACAAGGAGAAACGGTTTCTGGTTGAGGATGAAGATGAGGATTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_031340

**Insert Size:**

3618 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>NM_031340.1, NP_112630.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq Size:</b>           | 4237 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq ORF:</b>            | 3618 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Locus ID:</b>              | 83508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID:</b>            | <u>Q9Z2Y1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b>          | 7q11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | <p>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]</p> |