

Product datasheet for SC122249

PER1 (BC028207) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PER1 (BC028207) Human Untagged Clone
Tag:	Tag Free
Symbol:	PER1
Synonyms:	hPER; PER; RIGUI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC028207 edited
 GTGCCGCGCCGAGCGGTACTGGCTGTGATCGAACTTCTCAACCCTCAGAGACTTAGATCTT
 CCACCTCACTCCCTCAGCCAAGCCTCCAGGCCCTCGTGCATCCGTGGTGGCCTCTCTG
 CCTTCTCTGTTCTGTTCTCCCCATGGCCAGACATGAGTGGCCCCCTAGAAGGGGCTGAT
 GGGGGAGGGGACCCAGGCTGGGAATCATTTTGTCTGGGGCGTCCCATCCCCGTTGG
 CCCCCACAGCACCAGCCTTGGCCAGGCCAGCCTGGCCGATGACACCGATGCCAACAGC
 AATGGTTCAAGTGGCAATGAGTCCAACGGGCATGAGTCTAGAGGCGCATCTCAGCGGAGC
 TCACACAGCTCCTCCTCAGGCAACGGCAAGGACTCAGCCCTGCTGGAGACCACTGAGAGC
 AGCAAGAGCACAACTCTCAGAGCCATCCCCACCCAGCAGTTCATTGCCTACAGCCTC
 CTGAGTGCCAGCTCAGAGCAGGACAACCCGTCCACCAGTGGCTGCAGCAGTGAACAGTCA
 GCCCGGGCAAGGACTCAGAAGGAACTCATGACAGCACTTCGAGAGCTCAAGCTTCGACTG
 CCGCCAGAGCGCCGGGGCAAGGGCCGCTCTGGGACCCTGGCCACGCTGCAGTACGCACTG
 GCCTGTGTCAAGCAGGTGCAAGGCAACCAAGGAATACTACCAGCAGTGGAGCCTGGAGGAG
 GGCGAGCCTTGCTCCATGGACATGTCCACCTATAACCCTGGAGGAGCTGGAGCACATCACG
 TCTGAGTACACACTTCAGAACAGGATACCTTCTCAGTGGCTGTCTCCTTCTGACGGGC
 CGAATCGTCTACATTTCCGAGCAGGCAGCCGCTCTGCTGCGTTGCAAGCGGGACGTGTT
 CGGGGTACCCGCTTCTCTGAGCTCCTGGCTCCCCAGGATGTGGGAGTCTTCTATGGTTCC
 ACTGCTCCATCTCGCCTGCCACCTGGGGCACAGGGCCCTCAGCAGGTTCCAGGCCTCAGG
 GACTTTACCCAGGAGAAGTCCGTCTTCTGCCGTATCAGAGGAGGCTCTGACCCGGATCCA
 GGGCCTCGGTACCAGCCATTCCGCCTAACCCCGTATGTGACCAAGATCCGGGTCTCAGAT
 GGGGCCCTGCACAGCCGTGCTGCCTGCTGATTGCAGAGCGCATCCATTCCGGTTACGAA
 GCTCCCCGGATACCCCTGACAAGAGGATTTTCACTACGCGGCACACACCCAGCTGCCTC
 TTCCAGGATGTGGATGAAAGGGCTGCCCCCTGCTGGGTACCTGCCACAGGACCTCCTG
 GGGGCCCCAGTGTCTCTTCTGCATCCTGAGGACCGACCCCTCATGCTGGCTATCCAC
 AAGAAGATTCTGCAGTTGGCGGGCCAGCCCTTTGACCACTCCCCTATCCGCTTCTGTGCC
 CGCAACGGGGAGTATGTACCATGGACACCAGCTGGGCTGGCTTTGTGCACCCCTGGAGC
 CGCAAGGTAGCCTTCGTGTTGGCCGCCACAAAGTACGCACGGCCCCCTGAATGAGGAC



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GTGTTCACTCCCCGGCCCCAGCCCAGCTCCCTCCCTGGACACTGATATCCAGGAGCTG
 TCAGAGCAGATCCACCGGCTGCTGCTGCAGCCCGTCCACAGCCCCAGCCCCACGGGACTC
 TGTGGAGTCGGCGCCGTGACATCCCCAGGCCCTCTCCACAGCCCTGGGTCTCCAGTGAT
 AGCAACGGGGGTGATGCAGAGGGGCTGGGCTCCTGCGCCACTACAGGCACGTTCAAGG
 CCAAGGCCCTTCCTGCCAATCCCCAGACCCAGAGCTGGAGGCGGGTTCTGCTCCCGTCC
 AGGCCCACTAGCCTTGGTCCCTGAGGAGGCCGAGAGGAAAGAAGCCTCCAGCTGCTCCT
 ACCAGCAGATCAACTGCCTGGACAGCATCCTCAGGTACCTGGAGAGCTGCAACCTCCCA
 GCACCCTAAGCGTAAATGTGCCTCCTCCTCCTATACCACCTCCTCAGCCTCTGACG
 ACGACAGGCAGAGGACAGGTCCAGTCTCTGTGGGACCAAGAAAGACATCATCATGATGG
 AGGACTGCCTGGTCTAGCCCCAGGCCAGCCCCAGCCCCAGCCCCAGCCCCACAGTAG
 CCCCTGACCCAGCCCAGACGCCTACCGTCCAGTGGGGCTGACCAAGGCCGTGCTGTCC
 TGCACACGCAGAAGGAAGAGCAAGCCTTCCCTCAGCCGCTTCCGAGACCTGGGCAGGCTG
 GTGGACTGCAGACTCTCCACAGCTCCCTCAGCCCTTGGCGAGCGAGGTAGCCACCTGG
 GGCCTCCTGGAGCTGCCCTCTGCCAGTCTAGGACTGGATTGTTGGGGGTGGGTCTTA
 AGGGAGGTGTTTCTGCTCCAGGGACCCAGGCTGGTGTGTTCCACCACTAGGCCCTGCC
 TAGGGACAGGCCCTCGCTAGCTTCTCCCACTAGGATGGGGTTCGGGGCTGCAGCCAGA
 GGAGGGCAGCCTGGGGGATGGCACTGGGATGGGCAGGCAGAGGTGCTGTCTCCAGGTAA
 GCGACTTCAGGCCTAGCCTGGGGCAGGGGCAGGAAGTATGCCCACTTAGGAGTCAGTTG
 TCACTGATGAAGAGACATGCATAGATTCTGGGCCAACTCTGGGTGGGGTCTGGGCTTCAA
 GGGCAGGTGGAAGGCAGCCCCCTCAGGTGCCTGAGGGAGATCCCCGCAGGCAGACGCAG
 GACTCAGGACTGGGCTTCCAGCCCCACTTCTCACTCCATTGCAAGCTAGGCAGAATACG
 GCCTCGATGGGCAGGAGGAATGCCTAGGCTGGCAGTGGCCACAGGAGTTTGGCGGACCAG
 AGCCATCTGTCCATGTGTCCATGGACTCACCTGCTTCCCTCCATCTGCCAGCATGCCTCC
 ATCTTCCGCACACCCCCAGCTCGACCCCTCGTGTAACTCTCCCTGGCCTTGTTCCTTTC
 TCAATAAATCCCCTTGTCCCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC028207 unedited
 CTATTTTGTATACGACTCATATAGGCGCCGCGAATTCGGGATGTGCGCGCCGAGCGG
 TACTGGCTGTGATCGAATTCTCAACCCTCAGAGACTTAGATCTTCCACCTCACTCCCTC
 AGCCAAGCCTCCAGGCCCTCGTGCATCCGTGGTGGCCTCTCTGCCTTCTCTGTCTGT
 TCTCCCATGGCCAGACATGAGTGGCCCTAGAAAGGGCTGATGGGGAGGGGACCCC
 AGGCCTGGGAATCATTTTGTCTGGGGCGTCCCATCCCCTGGGCCCCACAGCACCGG
 CCTTGGCCAGGCCCCAGCCTGGCCGATGACACCGATGCCAACAGCAATGGTTCAAGTGGC
 AATGAGTCCAACGGCATGAGTCTAGAGGCGCATCTCAGCGGAGCTCACACAGCTCCTCC
 TCAGGCAACGGCAAGGACTCAGCCCTGCTGGAGACCACTGAGAGCAGCAAGAGCACAAAC
 TCTCAGAGCCCATCCCCACCCAGCAGTTCATTGCCTACAGCCTCCTGAGTGCCAGCTCA
 GAGCANGACAACCCGTCCACCAGTGGCTGCAGCAGTGAACAGTCAAGCCGGGCAAGGACT
 CAGAAGGAACTCATGACAGCACTTCGAGAGCTCAAGCTTCGACTGCCGNCAGAGCGCCGG
 GGCAAGGGCCGCTCTGGGACCCTGGCCACGCTGCAGTACGCACTGGCCTGTGTCAAGCAG
 GTGCAGGCCACCCAGGATACTAACAGCAGTGGAGCCTGGAGGAGGGNCGAGCCTTGCTC
 CATGGACATGTCCACCTTCCCTGGAAGAACTGGACCACATCACGTCTGATTCCCCTTC
 AAAACCAGGATACCTTCTAAAGGCTGGCCCTTCTGACCGCGGAATCTTCTAACTTT
 CGGAACAGGCAACCTTCTGTGG

Restriction Sites:

Please inquire

ACCN:

BC028207

Insert Size:

3076 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).
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:	BC028207.1
RefSeq Size:	3076 bp
Locus ID:	5187
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Circadian rhythm - mammal
Gene Summary:	<p>This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers. Alternative splicing has been observed in this gene; however, these variants have not been fully described. [provided by RefSeq, Jan 2014]</p>