

Product datasheet for **SC337939**

PER3 (NM_001289862) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PER3 (NM_001289862) Human Untagged Clone
Tag:	Tag Free
Symbol:	PER3
Synonyms:	FASPS3; GIG13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001289862, the custom clone sequence may differ by one or more nucleotides

```
ATGCCCCGCGGGGAAGCTCCTGGCCCCGGGAGACGGGGGCTAAGGACGAGGCCCTGGGCGAAGAATCGG
GGGAGCGGTGGAGCCCCGAGTTCATCTGCAGAGGAAATTGGCGGACAGCAGCCACAGTGAACAGCAAGA
TCGAAACAGAGTTTCTGAAGAACTTATCATGGTTGTCCAAGAAATGAAAAATACTTCCCCTCGGAGAGA
CGCAATAAACCAAGCACTCTAGATGCCCTCAACTATGCTCTCCGCTGTGTCCACAGCGTTCAAGCAAACA
GTGAGTTTTTCCAGATTCTCAGTCAGAAATGGAGCACCTCAGGCAGATGTGAGCATGTACAGTCTTGAGGA
GCTGGCCACTATCGTTCAGAACACACTTCCAAAAACACAGATACCTTTGTGCCAGTATTTTCATTTCTG
TCTGGAAGGTTAGTGCACATTTCTGAACAGGCTGCTTTGATCCTGAATCGTAAGAAAGATGTCCTGGCGT
CTTCTCACTTTGTTGACCTGCTTGACCTCAAGACATGAGGGTATTCTACGCGCACACTGCCAGAGCTCA
GCTTCCTTTCTGGAACAACCTGGACCCAAAGAGCAGCTGCACGGTATGAATGTGCTCCGGTAAAACCTTTT
TTCTGCAGGATCCGTGGAGGTGAAGACAGAAAGCAAGAGAAGTGTCACTCCCCATTCCGGATCATCCCCCT
ATCTGATTCATGTACATCACCTGCCAGCCAGAATTGGAATCGGAACCTTGCTGTCTCACTGTGGTTGA
AAAGATTCACCTCTGGTTATGAAGCTCCTCGGATCCCAGTGAATAAAGAATCTTCACCACCACACACC
CCAGGGTGTGTTTTCTGAAGTAGATGAAAAAGCAGTGCCTTTGCTGGGTTACCTACCTCAGGACCTGA
TTGGAACATCGATCCTAAGCTACCTGCACCCTGAAGATCGTTCTCTGATGTTGCCATACACCAAAAAGT
TTTGAAGTATGCAGGGCATCCTCCCTTTGAACATTCTCCATTCGATTTTGTACTCAAAACGGAGACTAC
ATCATACTGGATTCCAGTTGGTCCAGCTTTGTGAATCCCTGGAGCCGGAAGATTTCTTTCATCATTGGTC
GGCATAAAGTTTCAACGAGCCCACTAAATGAGGATGTTTTTGTACCAAAAATTAAGAAGTGAACGATAA
TGACAAAGACATAACAGAATTACAAGAACAATTTACAAACTTCTCTTACAGCCAGTTCCAGTGAGCGTG
TCCAGCGGCTACGGGAGCCTGGGGAGCAGCGGGTGCAGGAGCAGCTTGTGAGCATCGCCTCCTCCAGTG
AGGCCAGTGGGCACCGTGTGGAGGAGACGAAGCGGAGCAGATGACCTTGCAGCAGGTCTATGCCAGTGT
GAACAAAATTAATACTGGGTGAGCAGCTCTACATTGAGTCAATGACCAAAATCATCATTCAAGCCAGTG
ACGGGGACACGCACAGAACCGAATGGTGGTGGTGAAGTCAAGCAATGGTGGTGGTGAATGTAAGACCTTTA
CTTCTCCACCAAACTGAAAAACAATAGTGTGACACTGAGCCCTGTGAGGATTTGAGGAACGATGA
```



[View online >](#)

GCACAGCCCATCCTATCAACAGATCAACTGTATCGACAGTGCATCAGATACCTGAAGAGCTACAACATT
 CCAGCTTTGAAAAGAAAGTGTATCTCCTGTACAAATACAACCTTCTCCTCCTCAGAAGAAGACAAACAGA
 ACCACAAGGCAGATGATGTCCAAGCCTTACAAGCTGGTTTGCAAATCCCAGCCATACCTAAATCAGAAAT
 GCCAACAAATGGACGGTCCATAGACACAGGAGGAGGAGCTCCACAGATCCTGTCCACGGCGATGCTGAGC
 TTGGGGTGGGCATAAGCCAATGCGGTTACAGCAGCACCATTGTCATGTCCCACCCAGAGACAGCCA
 GGGATGCTACCCTCTTCTGTGAGCCCTGGACCTGAACATGCAGCCAGCCCTTTGACCTCGGAAGAATT
 TAAACAGTGGGGCTCACAGCGGCTGTTCTGTCAGCGCACACCCAGAAGGAAGAGCAATTATGTTGAT
 AAATTCGAGAAAAGATCCTGTATCACCTACAGCTCCTATCTTCAGCAAGAAAAGCAGGAGCAAAGCTA
 AATATTCAATTTTTCAAGGAGATTCTACTTCCAAGCAGACGCGGTGCGCCGGCTGCAGGAAAGGGAAGCA
 CAAGCGGAAGAAGCTGCCGGAGCCGCCAGACAGCAGCTCGAACACCGGCTCTGGTCCCCGAGGGGA
 GCGCATCAGAACGCACAGCCCTGCTGCCCTCCGCGGCTCCTCTCCGCACACCTCGAGCCCGACCTTCC
 CACCTGCCCCATGGTGCCAGCCAGGCCCTTACCTCGTCCCAGCTTTTCCCCTCCAGCCGCGACCTC
 ACCCGGAAGAGAATACGCAGCCCCGGAAGTGCACCGAAGGCCATGCATGGGCTGCCCTGTCCGAGGGC
 TTGCAGCCTTACCAGCTTTCCCTTTTCCCTACTTGGATACTTTTATGACCGTTTTCTGCCTGACCCCT
 CTGTCTGTCTGTTGTGCGCCATCGTTTTTGGCATGTCCATTCTGGGGCGACAGCCTTCTGCGAT
 ATCACCTCAATGTCGTAGCAATGAGTCCAACCTGGACCCACCCCTTCAATCACCAGCCAAAGGAGA
 GAGGAGGAAAAGTGGGAGGCACAAGCGAGGGGCACCCGTTTACTTTCGAGAAGCAGCTCACCTTGC
 AGTTAACTTACTTTCAGGAAGAGATGCCAGACCTCTGAATCTCCAGATCAGATGAGAAGGAACACGTG
 CCCACAACTGAGTATCAGTGTGTTACAGGCAACAATGGCAGTGAAGCAGTCTGCTACTACCGGTGCA
 CTGTCCACGGGGTCACTCCCAGGGAGAATCCATCCCATCCTACTGCCAGCGCTGTGCCACAGGATCGC
 CTCCCATGAAGAATCCATCCCATCCTACTGCCAGCGCTGTGCCACAGGATCGCCTCCCATGAAGAATCC
 ATCCCCTCCTACTGCCAGCACACTGTCCATGGGATTGCCTCCCAGCAGGACTCCATCCCATCCTACTGCC
 ACTGTTCTGTCCACGGGGTCACTCCCAGCGAATCCCCATCCAGAAGTGGTTCAGCAGCATCAGGAAGCA
 GCGACAGCAGTATATACCTTACTAGTAGTGTATTCTTCTAAAATCTCCAAAATGGGCAGCAATCTCA
 GGACGTACAGAAAAAAGAAACATTTCTAATGTGCGCCGAGAGCCATCTGGAGAATGATACGGCAGACA
 CCTGAGCGCATTCTCATGACATACCAGGTACCTGAGAGGGTTAAAGAAGTTGACTAAAAGAAGACCTGG
 AAAAGCTAGAAAGTATGAGGCAGCAGCCCCAGTTTTCTCATGGGCAAAGGAGGAGCTGGCTAAGGT
 GTATAATTGGATTCAAAGCCAGACTGCTCAAGAAATCGACATTCAAGCCTGTGCTCACTTGTGAAAAT
 GAAGATTCAGCTGATGGTGGCCACATCCTGTGGTCAGGTTCTGGTAGAAGACAGCTGTGA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289862
- 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:**
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:** [NM_001289862.1](#), [NP_001276791.1](#)

RefSeq Size:	6336 bp
RefSeq ORF:	3633 bp
Locus ID:	8863
UniProt ID:	P56645
Cytogenetics:	1p36.23
Protein Families:	Druggable Genome, Transcription Factors
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 have been linked to sleep disorders. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>