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Product datasheet for SC337925

PER3 (NM_001289863) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PER3 (NM_001289863) 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_001289863, the custom clone sequence may differ by one or more nucleotides

ATGCCCCGCGGGGAAGCTCCTGGCCCCGGGAGACGGGGGGCTAAGGACGAGGCCCTGGGCGAAGAATCGG
GGGAGCGGTGGAGCCCCGAGTTCCATCTGCAGAGGAAATTGGCGGACAGCAGCCACAGTGAACAGCAAGA
TCGAAACAGAGTTTCTGAAGAACTTATCATGGTTGTCCAAGAAATGAAAAAATACTTCCCCTCGGAGAGA
CGCAATAAACCAAGCACTCTAGATGCCCTCAACTATGCTCTCCGCTGTGTCCACAGCGTTCAAGCAAACA
GTGAGTTTTTCCAGATTCTCAGTCAGAATGGAGCACCTCAGGCAGATGTGAGCATGTACAGTCTTGAGGA
GCTGGCCACTATCGCTTCAGAACACACTTCCAAAAACACAGATACCTTTGTGGCAGTATTTTCATTTCTG
TCTGGAAGGTTAGTGCACATTTCTGAACAGGCTGCTTTGATCCTGAATCGTAAGAAAGATGTCCTGGCGT
CTTCTCACTTTGTTGACCTGCTTGCACCTCAAGACATGAGGGTATTCTACGCGCACACTGCCAGAGCTCA
GCTTCCTTTCTGGAACAACTGGACCCAAAGAGCAGCTGCACGGTATGAATGTGCTCCGGTGAAACCTTTT
TTCTGCAGGATCCGTGGAGGTGAAGACAGAAAGCAAGAGAAGTGTCACTCCCCATTCCGGATCATCCCCT
ATCTGATTCATGTACATCACCCTGCCCAGCCAGAATTGGAATCGGAACCTTGCTGTCTCACTGTGGTTGA
AAAGATTCACTCTGGTTATGAAGCTCCTCGGATCCCAGTGAATAAAAGAATCTTCACCACCACACACACC
CCAGGGTGTGTTTTTCTTGAAGTAGATGAAAAAGCAGTGCCTTTGCTGGGTTACCTACCTCAGGACCTGA
TTGGAACATCGATCCTAAGCTACCTGCACCCTGAAGATCGTTCTCTGATGGTTGCCATACACCAAAAAGT
TTTGAAGTATGCAGGGCATCCTCCCTTTGAACATTCTCCCATTCGATTTTGTACTCAAAACGGAGACTAC
ATCATACTGGATTCCAGTTGGTCCAGCTTTGTGAATCCCTGGAGCCGGAAGATTTCTTTCATCATTGGTC
GGCATAAAGTTCGAACGAGCCCACTAAATGAGGATGTTTTTGCTACCAAAATTAAAAAGATGAACGATAA
TGACAAAGACATAACAGAATTACAAGAACAAATTTACAAACTTCTCTTACAGCCAGTTCACGTGAGCGTG
TCCAGCGGCTACGGGAGCCTGGGGAGCAGCGGGTCGCAGGAGCAGCTTGTCAGCATCGCCTCCTCCAGTG
AGGCCAGTGGGCACCGTGTGGAGGAGACGAAGGCGGAGCAGATGACCTTGCAGCAGGTCTATGCCAGTGT
GAACAAAATTAAAAATCTGGGTCAGCAGCTCTACATTGAGTCAATGACCAAATCATCATTCAAGCCAGTG
ACGGGGACACGCACAGAACCGAATGGTGGTGGTGAATGTAAGACCTTTACTTCCTTCCACCAAACACTGA
AAAACAATAGTGTGTACACTGAGCCCTGTGAGGATTTGAGGAACGATGAGCACAGCCCATCCTATCAACA

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GATCAACTGTATCGACAGTGTCATCAGATACCTGAAGAGCTACAACATTCCAGCTTTGAAAAGAAAGTGT
ATCTCCTGTACAAATACAACTTCTTCCTCCTCAGAAGAAGACAAACAGAACCACAAGGCAGATGATGTCC
AAGCCTTACAAGCTGGTTTGCAAATCCCAGCCATACCTAAATCAGAAATGCCAACAAATGGACGGTCCAT
AGACACAGGAGGAGGAGCTCCACAGATCCTGTCCACGGCGATGCTGAGCTTGGGGTCGGGCATAAGCCAA
TGCGGTTACAGCAGCACCATTGTCCATGTCCCACCCCCAGAGACAGCCAGGGATGCTACCCTCTTCTGTG
AGCCCTGGACCCTGAACATGCAGCCAGCCCCTTTGACCTCGGAAGAATTTAAACACGTGGGGCTCACAGC
GGCTGTTCTGTCAGCGCACACCCAGAAGGAAGAGCAGAATTATGTTGATAAATTCCGAGAAAAGATCCTG
TCATCACCCTACAGCTCCTATCTTCAGCAAGAAAGCAGGAGCAAAGCTAAATATTCATATTTTCAAGGAG
ATTCTACTTCCAAGCAGACGCGGTCGGCCGGCTGCAGGAAAGGGAAGCACAAGCGGAAGAAGCTGCCGGA
GCCGCCAGACAGCAGCAGCTCGAACACCGGCTCTGGTCCCCGCAGGGGAGCGCATCAGAACGCACAGCCC
TGCTGCCCCTCCGCGGCCTCCTCTCCGCACACCTCGAGCCCGACCTTCCCACCTGCCGCCATGGTGCCCA
GCCAGGCCCCTTACCTCGTCCCAGCTTTTCCCCTCCCAGCCGCGACCTCACCCGGAAGAGAATACGCAGC
CCCCGGAACTGCACCGGAAGGCCTGCATGGGCTGCCCTTGTCCGAGGGCTTGCAGCCTTACCCAGCTTTC
CCTTTTCCTTACTTGGATACTTTTATGACCGTTTTCCTGCCTGACCCCCCTGTCTGTCCTCTGTTGTCGC
CATCGTTTTTGCCATGTCCATTCCTGGGGGCGACAGCCTCTTCTGCGATATCACCCTCAATGTCGTCAGC
AATGAGTCCAACTCTGGACCCACCCCCTTCAGTCACCAGCCAAAGGAGAGAGGAGGAAAAGTGGGAGGCA
CAAAGCGAGGGGCACCCGTTCATTACTTCGAGAAGCAGCTCACCCTTGCAGTTAAACTTACTTCAGGAAG
AGATGCCCAGACCCTCTGAATCTCCAGATCAGATGAGAAGGAACACGTGCCCACAAACTGAGTATTGTGT
TACAGGCAACAATGGCAGTGAGAGCAGTCCTGCTACTACCGGTGCACTGTCCACGGGGTCACCTCCCAGG
GAGAATCCATCCCATCCTACTGCCAGCGCTCTGTCCACAGGATCGCCTCCCATGAAGAATCCATCCCATC
CTACTGCCAGCACACTGTCCATGGGATTGCCTCCCAGCAGGACTCCATCCCATCCTACTGCCACTGTTCT
GTCCACGGGGTCACCTCCCAGCGAATCCCCATCCAGAACTGGTTCAGCAGCATCAGGAAGCAGCGACAGC
AGTATATACCTTACTAGTAGTGTTTATTCTTCTAAAATCTCCCAAAATGGGCAGCAATCTCAGGACGTAC
AGAAAAAAGAAACATTTCCTAATGTCGCCGAAGAGCCCATCTGGAGAATGATACGGCAGACACCTGAGCG
CATTCTCATGACATACCAGGTACCTGAGAGGGTTAAAGAAGTTGTACTAAAAGAAGACCTGGAAAAGCTA
GAAAGTATGAGGCAGCAGCAGCCCCAGTTTTCTCATGGGCAAAAGGAGGAGCTGGCTAAGGTGTATAATT
GGATTCAAAGCCAGACTGTCACTCAAGAAATCGACATTCAAGCCTGTGTCACTTGTGAAAATGAAGATTC
AGCTGATGGTGCGGCCACATCCTGTGGTCAGGTTCTGGTAGAAGACAGCTGTTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001289863
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_001289863.1, NP_001276792.1
RefSeq Size:	6258 bp

RefSeq ORF:	3555 bp
Locus ID:	8863
UniProt ID:	P56645
Cytogenetics:	1p36.23
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Circadian rhythm - mammal
Gene Summary:	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] Transcript Variant: This variant (3) uses an alternate in-frame splice junction at the 3' end of an exon and lacks an alternate in-frame segment compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1.