

Product datasheet for MR221637

Per3 (NM_011067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per3 (NM_011067) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Per3
Synonyms:	2810049O06Rik; mPer3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221637 representing NM_011067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCTGTGGAGACCCGGCAGTACCTGGTGGCGACTGTCCCAGACTAGGGGACCGGGGCTCCAGG
GGGCGTCTGGCCAGGAGGGTCTCTGCAGGGCACTTGCCTGGACAGCAGCCACAGTGAACACGAAGACCG
AAACAGAAATGTCTGAAGAGCTTATAATGGTTGTCCAAGAAATGAAAAAGTATTTCCAGCCGAGAGGCAC
ACTAAGCCAGTACCCTAGATGCTCTTAACTATGCCCTGCGCTGTGTACACAGTGTGAAGCAAACAGTG
ACTTTTTCCAGAGTCTCGGTCCACGCGGAGCACACCAGGCAGATGTGACTGTATACAGTCTTGAGGACCT
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GGAAGGTTAGTGACATTTCTGAGCAGGCTGCTTTGATCCTGAATTCTAAGAGGGGTTTTCTCAAGAGCG
TGCACTTTGTGCGACTGCTTGCCCTCAAGACGTGAGGGCGTTCTACGCGCACACTGCTCCAACCTCAGCT
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GAACCGCAGGGTGGTGTATGAGCAGAAGGACTTTTCTCCTCTCAGACACTGAAAAATAAAAGCACCACGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>MR221637 representing NM_011067
 Red=Cloning site Green=Tags(s)

MDPCGDPVAVPGGDCPQTRGPGLQGASGQEGPLQGTQVDSHSEHEDRNRMSEELIMVVQEMKKYFPAERH
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 GRLVHISEQAALILNSKRGFLKSVHFVDLLAPQDVRAFYAHTAPTQLPFWNNWTRASQYECAPAKPFFC
 RICGGGDREKRHYSPFRILPYLVHVHSSAQPEPEPCCLTLVEKIHSGYEAPRIPVDKRIFTTHTHPGCVF
 LEVDERAVPLLGYPQLIGTSLTYLHPEDRPLMVAIHQKVLKYAGHPPFEHSPVRFCTQNGEYVILDS
 SWSSFVNPWSRKVSFIIGRHKVRTSPLNEDVFATRICKAASNDKDIAELQEIHKLLLPVHASASSGYG
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 GAGLAFPSALVVPSTPYLLPSFPLQDMASQGVGVSAAWGAAGCPPLSAGPQAVAAFPAYVDTLMTIF
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 IYFSSTDYASEVSENRRPQDRQRDEALPGAAEESIWRMIERTPECVLMTYQVPERGREEVLKQDLEKLQ
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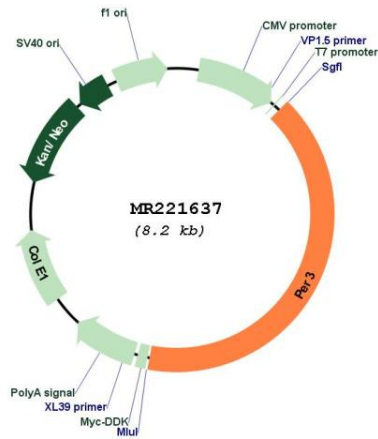
UniProt ID: [O70361](#)

Cytogenetics: 4 E2

MW: 121.4 kDa

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, Feb 2014]

Product images:



Circular map for MR221637