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Product datasheet for RG239744

PER3 (NM_001289864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PER3 (NM_001289864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PER3
Synonyms:	FASPS3; GIG13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG239744 representing NM_001289864.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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GATGGTGCGGCCACATCCTGTGGTCAGGTTCTGGTAGAAGACAGCTGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239744
Blue=ORF Red=Cloning site Green=Tag(s)

MVAIHQKVLKYAGHPPFEHSPIRFCTQNGDYIILDSSWSSFVNPWSRKISFIIGRHKVRTSPLNEDVFA
TKIKKMNDNDKDITELQEQIYKLLLQPVHVSVSSGYGSLGSSGSQEQLVSIASSSEASGHRVEETKAEQ
MTLQQVYASVNKIKNLGQQLYIESMTKSSFKPVTGTRTEPNGGGESANGGGECKTFTSFHQTLKNNSVY
TEPCEDLRNDEHSPSYQQINCIDSVIRYLKSYNIPALKRKCISCTNTTSSSSEEDKQNHKADDVQALQA
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HPTASALSTGSPPMKNPSHPTASTLSMGLPPSRTPSHPTATVLSTGSPPSESPSRTGSAASGSSDSSIY
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MRQQQPQFSHGQKEELAKVYNWIQSQTVTQEIDIQACVTCENEDSADGAATSCGQVLVEDSC
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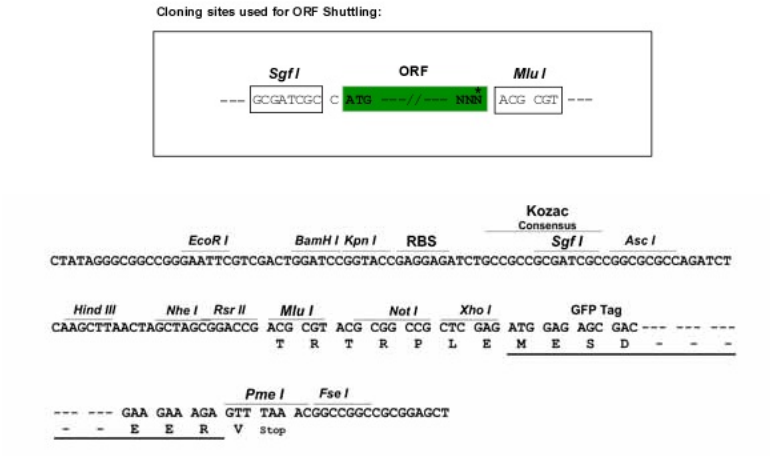
Restriction Sites: SgfI-MluI

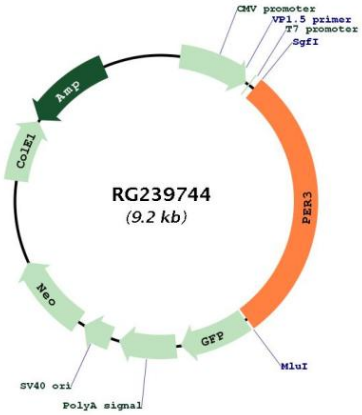
Cloning Scheme:



ACCN:	NM_001289864
ORF Size:	2670 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
RefSeq:	NM_001289864.3
RefSeq Size:	6394 bp
RefSeq ORF:	2673 bp

Locus ID:	8863
UniProt ID:	P56645
Cytogenetics:	1p36.23
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Circadian rhythm - mammal
MW:	96.8 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, Jan 2014]

Product images:



Circular map for RG239744