

Recombinant Human PER2

Cat. No. PER2-29936TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PER2 with a proprietary tag: predicted molecular weight 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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. Circadian expression in the suprachiasmatic nucleus continues in constant darkness, and a shift in the light/dark cycle evokes a proportional shift of gene expression in the suprachiasmatic nucleus. The specific function of this gene is not yet known.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Widely expressed. Found in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. High levels in skeletal muscle and pancreas. Low level in lung.
Biological activity	Useful for Antibody Production and Protein Array
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MNGYAEFPPSPSNPTKEPVEPQPSQVPLQEDVDMSSGSSGHETNENCSTGRDSQ GSDCDDSGKELGMLVEPPDARQSPDTFSLMMAKSEHNPSTSGCSSD
Sequence Similarities	Contains 1 PAC (PAS-associated C-terminal) domain.Contains 2 PAS (PER-ARNT-SIM) domains.

GENE INFORMATION

Gene Name	PER2 period homolog 2 (Drosophila) [Homo sapiens]
Official Symbol	PER2
Synonyms	PER2; period homolog 2 (Drosophila); period (Drosophila) homolog 2; period circadian protein homolog 2; KIAA0347;
Gene ID	8864
mRNA Refseq	NM_022817
Protein Refseq	NP_073728
MIM	603426
Uniprot ID	O15055

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Chromosome Location	2q37.3
Pathway	BMAL1:CLOCK/NPAS2 Activates Gene Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem;
Function	protein binding transcription factor activity; signal transducer activity;

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