# Period Circadian Protein (per) Drosophila Equinoxialis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Period circadian protein (per), Recombinant Protein |
| **Full Product Name** | Recombinant Drosophila equinoxialis Period circadian protein (per) |
| **Product Gene Name** | per recombinant protein |
| **Sequence** | SSTETPPSYN QLNYNENLLR FFNSKPVTAP VELDPPKVES SYVSSARGED ARSTLSPVQG FEGSGGSGSS GNFTTGSNLH MSSVTNTSNA GTGTSGTGNS GDGGGGGGAD GTGSGAAPPV TLTESLLNKH NDEMEKFMLK KHRESRGRSG EKNKKSANEA MKMLEYSGPG PGHGHGIKRG GSHSWEGEAN KPKQQLTLNT SGGGGGGGGG GGMPLFLDMT HASSSSQNKG LAGVGVGGAG GVVGGGSGTG LGGNGNVGSG NGNNNQPSTN QYTQSRLPCT QNINLWPPFS VGITTPTSVL SSHTAVPPSS FSPQHSLFPT FYYIPASIAA SSPSGTNTNP NRPHKHAHVH NSSEKPSTSQ AAAATMPLQY MTGVMYPHPS LFYTHPAAAA ATAMV |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 40,062 Da |
| **Sequence Positions** | 1-395, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for P92203 |
| **Species** | Drosophila equinoxialis (Fruit fly) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for per recombinant protein** | MBS1215443 is a recombinant protein targeting per. Also known as Recombinant Drosophila equinoxialis Period circadian protein (per). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of per recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for per. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6174898 |
| **NCBI Accession #** | P92203.1 |
| **UniProt Primary Accession #** | P92203 |
| **UniProt Secondary Accession #** | P92207 |
| **NCBI Official Full Name** | Period circadian protein |

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| **UniProt Protein Name** | Period circadian protein |
| **Protein Family** | Period circadian protein |
| **UniProt Gene Name** | per |
| **UniProt Comments for per** | Essential for biological clock functions. Determines the period length of circadian and ultradian rhythms; an increase in PER dosage leads to shortened circadian rhythms and a decrease leads to lengthened circadian rhythms. Essential for the circadian rhythmicity of locomotor activity, eclosion behavior, and for the rhythmic component of the male courtship song that originates in the thoracic nervous system. The biological cycle depends on the rhythmic formation and nuclear localization of the TIM-PER complex. Light induces the degradation of TIM, which promotes elimination of PER. Nuclear activity of the heterodimer coordinatively regulates PER and TIM transcription through a negative feedback loop. Behaves as a negative element in circadian transcriptional loop. Does not appear to bind DNA, suggesting indirect transcriptional inhibition (). |
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