

## **Product datasheet for RC207152L1**

#### OriGene Technologies, Inc.

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## Cryptochrome I (CRY1) (NM\_004075) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Cryptochrome I (CRY1) (NM\_004075) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Cryptochrome I

Synonyms: DSPD; PHLL1

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

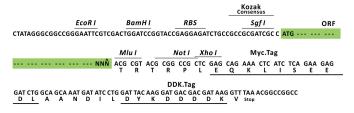
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC207152).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_004075

ORF Size: 1758 bp





### Cryptochrome I (CRY1) (NM\_004075) Human Tagged Lenti ORF Clone - RC207152L1

**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).

**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:** <u>NM 004075.2</u>

RefSeq Size:3310 bpRefSeq ORF:1761 bpLocus ID:1407

UniProt ID: Q16526
Cytogenetics: 12q23.3

**Domains:** FAD\_binding\_7, DNA\_photolyase

**Protein Families:** Druggable Genome

**Protein Pathways:** Circadian rhythm - mammal

**MW:** 66.4 kDa

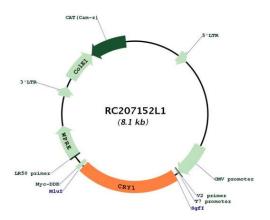
**Gene Summary:** This gene encodes a flavin adenine dinucleotide-binding protein that is a key component of

the circadian core oscillator complex, which regulates the circadian clock. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a

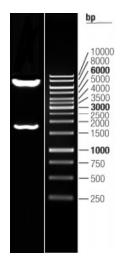
feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene have been associated with altered sleep patterns. The encoded protein is widely conserved across plants and animals. Loss of the related gene in mouse results in a shortened circadian cycle in complete darkness. [provided by RefSeq, Jan 2014]



# **Product images:**



Circular map for RC207152L1



Double digestion of RC207152L1 using Sgfl and Mlul