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# Product datasheet for RC207152L1V

## Cryptochrome I (CRY1) (NM_004075) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Cryptochrome I (CRY1) (NM_004075) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Cryptochrome I |
| **Synonyms:** | DSPD; PHLL1 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-Myc-DDK (PS100064) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_004075 |
| **ORF Size:** | 1758 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC207152). |
| **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. |
| **RefSeq:** | NM_004075.2 |
| **RefSeq Size:** | 3310 bp |
| **RefSeq ORF:** | 1761 bp |
| **Locus ID:** | 1407 |
| **UniProt ID:** | Q16526 |
| **Cytogenetics:** | 12q23.3 |
| **Domains:** | FAD_binding_7, DNA_photolyase |
| **Protein Families:** | Druggable Genome |

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**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]