

Product datasheet for **SC107056**

CRY2 (NM_021117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRY2 (NM_021117) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRY2
Synonyms:	HCRY2; PHLL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_021117, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGGGTCCACGTCGCCTACCGGGGCGGAGCGGGGTGGCTGGAGCAGTCTGGACAGTCTATGGCGG
CGACTGTGGCGACGGCGGCAGCTGTGGCCCGGGCCAGCGCCCGGCACGGACAGCGCCTCTTCGGTGCA
CTGGTTCCGCAAAGGGCTGCGACTCCACGACAACCCGGCGTTGCTGGCGGCCGTGGCGGGGCGCGCTGC
GTGCGCTGCGTTTACATTCTCGACCCGTGGTTCGCGGCCCTCCTCCTCAGTCGGGATCAACCGATGGAGGT
TCTACTTTCAGTCTCTGGAAGATTTGGACACAAGTTTAAGGAAACTGAACTCCCGCCTGTTTGTAGTCCG
GGGACAGCCAGCCGACGTGTTCCCAAGGCTGTTCAAGGAATGGGAGTGACCCGCTTGACCTTTGAATAT
GACTCTGAACCCCTTGGGAAAGAACGGGATGCAGCCATCATGAAGATGGCCAAGGAGGCTGGTGTGGAAG
TAGTGACGGAGAATTCTCATACCCTCTATGACCTGGACAGGATCATTGAGCTGAATGGGCAGAAGCCACC
CCTTACATAACAAGCGCTTTCAGGCCATCATCAGCCGCATGGAGCTGCCAAGAAGCCAGTGGGCTTGGT
ACCAGCCAGCAGATGGAGAGCTGCAGGGCCGAGATCCAGGAGAACCACGACGAGACCTACGGCGTGCCCT
CCCTGGAGGAGCTGGGGTCCCCACTGAAGGACTTGGTCCAGCTGTCTGGCAGGGAGGAGACAGAAGC
TCTGGCCCGCCTGGATAAGCACTTGAACGGAAGGCTGGGTTGCCAACTATGAGAGACCCGAATGAAC
GCCAACTCCCTCCTGGCCAGCCCAAGCCCTCAGCCCTACCTGCGCTTTGGTGTCTCTCCTGCCGCC
TCTTCTACTACCGCCTGTGGGACCTGTATAAAAAGGTGAAGCGGAACAGCACACCTCCCCTCCTCCTATT
TGGGCAACTCCTATGGCGAGAGTTCTTCTACACGGCAGCTACCAACAACCCAGGTTTGACCGCATGGAG
GGGAACCCCATCTGCATCCAGATCCCCTGGGACCGCAATCCTGAGGCCCTGGCCAAGTGGGCTGAGGGCA
AGACAGGCTTCCCTTGGATTGATGCCATCATGACCAACTGAGGCAGGAGGGCTGGATCCACCACCTGGC
CCGGCATGCCGTGGCCTGCTTCTGACCCGCGGGGACCTCTGGTTCAGCTGGGAGAGCGGGTCCGGGTA
TTTGATGAGCTGCTCCTGGATGCAGATTTACGCTGAACGCAAGGAGCTGGATGTGGCTGTCTGCAGT
CTTTCTTCCAGCAGTTCTTCCACTGCTACTGCCCTGTGGGCTTTGGCCGTCGCACGGACCCAGTGGGGA
CTACATCAGGCGATACCTGCCAAATTGAAGCGTTCCCTCCTCGATAACATCTATGAGCCCTGGAATGCC
CCAGAGTCAATTCAGAAGGCAGCAAGTGCATCATTGGTGTGGACTACCCACGGCCCATCGTCAACCATG
CCGAGACCAGCCGGCTTAACATTGAACGAATGAAGCAGATTTACCAGCAGCTTTCGCGCTACCGGGGACT
CTGTCTACTGGCATCTGTCCCTTCTGTGTGGAAGACCTCAGTACCCTGTGGCAGAGCCAGCTCGAGC
CAGGCTGGCAGCATGAGCAGTGCAGGCCAAGACCACTACCCAGTGGCCAGCATCCCCAAACGCAAGC
TGAAGCAGCCGAGGAACCACTGGTGAAGAACTCAGCAAACGGGCCCGGTGGCAGAGTGGCAACCC
AGAGCTGCCGAGCAAGGATGCCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021117 unedited

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TGTATACGTATCACTATAGGCGGCCGGAATTCGCACGAGGCTGGAGCAGTCTGGACAGT
CATGGCGGCGACTGTGGCGACGGCGGCAGCTGTGGCCCGGGCCAGCGCCCGGCACGGA
CAGCGCCTCTTCGGTGCAGTGGTTCGCAAAGGGCTGCGACTCCACGACAACCCGGCGTT
GCTGGCGGCCGTGCGCGGGGCGCCTGCGTGCCTGCGTTTACATTCTCGACCCGTGGTT
CGCGGCCCTCCTCCTCAGTCGGGATCAACCGATGGAGGTTCTACTTTCAGTCTCTGGAAGA
TTTGGACACAAGTTTAAGGAAACTGAACTCCCGCCTGTTTGTAGTCCGGGACAGCCAGC
CGACGTGTTCCCAAGGCTGTTCAAGGAATGGGAGTGACCCGCTTGACCTTTGAATATGA
CTCTGAACCCCTTGGGAAAGAACGGGATGCAGCCATCATGAAGATGGCCAAGGAGGCTGG
TGTGGAAGTAGTGACGGAGAATTCTCATACCCTCTATGACCTGGACAGGATCATTGAGCT
GAATGGGCAGAAGCCACCCCTTACATAACAAGCGCTTTCAGGCCATCATCAGCCGATGGA
GCTGCCAAGAAGCCAGTGGGCTTGGTGACCAGCCAGCAGATGGAGAGCTGCAGGGCCGA
GATCCAGGAGAACCACGACGAGACCTACGGCGTGCCCTCCTGGAGGAGCTGGGGTTCCC
CACTGNAAGACTTGGTCCAGCTGTCTGGCAGGGAGGAGAGACAGAAGCTCTGGCCCGCT
GGATAAGCACTTGAACGGAAAGCCCTGGTTGCCACTATGAGAGACCCGAATGAACGCAA
CTCCTNCTGGCCAGCCACAGGCTNAGNCCCTACCTGCGCTTGGTGTCTCTCTGGCGCTC
TCTATAC
    
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Restriction Sites:

NotI-NotI

ACCN:	NM_021117
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	NM_021117.1 , NP_066940.1
RefSeq Size:	4204 bp
RefSeq ORF:	1782 bp
Locus ID:	1408
UniProt ID:	Q49AN0
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Protein Pathways:	Circadian rhythm - mammal
Gene Summary:	<p>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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (1) uses an alternate first exon which contains the predicted translation start site; the resulting protein has a distinct N-terminus. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by conservation.</p>