

## Product datasheet for SC118886

### Prokineticin 2 (PROK2) (NM\_021935) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prokineticin 2 (PROK2) (NM_021935) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prokineticin 2
Synonyms:	BV8; HH4; KAL4; MIT1; PK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_021935 edited  
 ATGAGGAGCCTGTGCTGCGCCCCACTCCTGCTCCTCTTGCTGCTGCCGCCGCTGCTGCTC  
 ACGCCCCGCGCTGGGACGCGCCGTGATCACCAGGGCTTGTGACAAGGACTCCCAATGT  
 GGTGGAGGCATGTGCTGTGCTGTGCTGATCTGGTCAAGAGCATAAAGATTTGCACACCT  
 ATGGGCAAACCTGGGAGACAGCTGCCATCCACTGACTCGTAAAGTTCCATTTTTGGGCGG  
 AGGATGCATCACACTTGCCCATGTCTGCCAGGCTTGGCCTGTTTACGGACTTCATTTAAC  
 CGATTTATTTGTTTAGCCCAAAGTAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_021935 unedited  
 TCAGATTTGTAACGACTCATATAGGCGCCGCGNAATTCGACCAGCCGGCGTGAGTC  
 ACGGCGGGGCTAGCCTTTATAACGCGCCGAGGCTCGCGGGAGCCGCGCCCGTCCGC  
 CCGCCGCTCCGCGCTCCACCCAGCGCACCCGGGCCCCGCGCCCCAACTGCCTCCGGCGG  
 CCGCCAGTCCCAGGGCGCCATGAGGAGCCTGTGCTGCGCCCCACTCCTGCTCCTTTG  
 CTGCTGCCCGCTGCTGCTCACCCCCGCGTGGGACGCCCGGTGATCACCAGGGCT  
 TGTGACAAGGACTCCCAATGTGGTGGAGGCATGTGCTGTGCTGTCAGTATCTGGTCAAG  
 AGCATAAGGATTTGCACACCTATGGGCAAACCTGGGAGACAGCTGCCATCCACTGACTCGT  
 AAAGTTCCATTTTTGGGCGGAGGATGCATCACACTTGCCCATGTCTGCCAGGCTTGGCC  
 TGTTTACGGACTTCATTTAACCGATTTATTTGTTTAGCCCAAAGTAATCGCTCTGGAGT  
 AGAAACCAAATGTGAATAGCCACATCTTACCTGTAAAGTCTTACTTGTGATTGTGCCAAA  
 CAAAAATGTGCCAGAAAGAAATGCTCTTGCTTCTCACTTTCCAAGTAACATTTTTAT  
 CTTTGATTTGTAATGATTTTTTTTTTTTTTTTATCGAAAGAGATTTACTTTTGGATAG  
 AAATATGAAGTGAAGGCATTATGGAACCTGTTCTTATTTCCCTGTTTGTGTTTTGGTTT  
 GATTTGGCTTTTTCTTAATGTCAAACGTACCCATTTTCAAAAATGAGGAAATAAGAT  
 TTGATATTTGTTGAAAACTTTTTTTTTTTCTACCACCCCAAGCCCATTTGTGCCCT  
 GCCGCACAATACCCTACAGCTTTGTCCCTGCGCTCTCACTCAAGATTTTCAGCTCTACCTC



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**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_021935 unedited  
 GTTAAATCTTTTTTTTTTGACAAAAATAAGATATAATATTTAAAAATAATCAAATGATAT  
 ACAGTACTGTTATTATTCTGATACAGAATTTTTACACAGCAACTGATACAGGTACAAA  
 CGGCAATCCATTACAATCGACCTTTTCAGTTACAAACAAGGTTTAAATTACAACTTAATAC  
 TGCTTTAAAAATGGTAATTAGTGTGTGCCAGATTAATAATAAATACTTCTCTTCAAGTG  
 ACATTTTCTAGAATATCTCTAAGTAGGAGACTAAGGAAAAAAAACTTTATAAAAAAGTAAA  
 AGAAGTAAATGTAATCTTTTATTTTTAGAAAAACCCAAACCTAGAAATCTGGACTAAATT  
 AATTTGGCTTTCCATTCTTCTGTCCACACACCAGCCCAACAGCAGAGCTGAAGTCCTCT  
 TGAGTGACAGGTTTAGGAAGGGTCCAGCAGCACTCCTAGCTTCCGTGCCATGACAGGAGT  
 TTGGAGTGTCAAGTTCACATATACACTCTTTTCACTATTTAAATGCCAGCAAAAAGCTGG  
 ATTCCCATCAGTGATTCTGCCATCAAACCTCAAAGAGACAAACCTCCACTTTAAATGCA  
 AGAGGAGGGAAGAGAAATGGACAAAAATNAAGTAAGGTAAGAGCCTTGAATTTCTTTGAG  
 GTGGAAGAGGCAAGGGACAAAAGCTGTAGGTGATTTGTGCGGCAGGGCACAAATGGGG  
 CTTGGGGTGGTGAGAAAAAAAAAAAAAGTTTTTCTAACAAAATATCAAATCTTATTTTC  
 CTCATTTTGTGAAAATGGGTACGTTTTTACATTTAAGAAAAAGCCAAATCAAACCAAA  
 CACAAACGGGAAATAAGAACCAGTCCATAATGCCTTACACTTATATT

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_021935

**Insert Size:** 1350 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [NM\\_021935.2](#), [NP\\_068754.1](#)

**RefSeq Size:** 1406 bp

RefSeq ORF:	327 bp
Locus ID:	60675
UniProt ID:	<a href="#">Q9HC23</a>
Cytogenetics:	3p13
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>This gene encodes a protein expressed in the suprachiasmatic nucleus (SCN) circadian clock that may function as the output component of the circadian clock. The secreted form of the encoded protein may also serve as a chemoattractant for neuronal precursor cells in the olfactory bulb. Proteins from other vertebrates which are similar to this gene product were isolated based on homology to snake venom and secretions from frog skin, and have been shown to have diverse functions. Mutations in this gene are associated with Kallmann syndrome 4. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.</p>