

## Product datasheet for **MC209852**

### Prok2 (NM\_001170419) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prok2 (NM_001170419) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prok2
Synonyms:	Bv8; PK2; Prok1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209852 representing NM_001170419 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGACCCGCGCTGTGCCCGCTACTGCTACTTCTGCTGCTACCGCTGCTGTTACACCGCCCGCG  
GGGATGCCGCGGTCATCACCGGGTTCATTTGGGGCGGAGGATGCACCACACCTGCCCTGCCTGCC  
AGGCTTGGCGTTTAAGGACTTCTTTCAACCGTTTATTGCTTGGCCCGAA**TGA**

**ACGCGT**ACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001170419
Insert Size:	198 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).



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**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\\_001170419.1](#), [NP\\_001163890.1](#)

**RefSeq Size:** 1324 bp

**RefSeq ORF:** 198 bp

**Locus ID:** 50501

**Cytogenetics:** 6 46.29 cM

**Gene Summary:** May function as an output molecule from the suprachiasmatic nucleus (SCN) that transmits behavioral circadian rhythm. May also function locally within the SCN to synchronize output. Potently contracts gastrointestinal (GI) smooth muscle (By similarity).[UniProtKB/Swiss-Prot Function]

**Transcript Variant:** This variant (3) lacks an alternate in-frame segment compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1.

**Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.