

Product datasheet for **MG217115**

Prok2 (NM_015768) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prok2 (NM_015768) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Prok2
Synonyms: Bv8; PK2; Prok1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217115 representing NM_015768
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGGGGACCCGCGCTGTGCCCCGCTACTGCTACTTCTGCTGCTACCGCTGCTGTTCACACCGCCCGCGG
GGGATGCCGCGGTCATCACCGGGCTTGCACAAAGGACTCTCAGTGCGGAGGAGGCATGTGCTGTGCTGT
CAGTATCTGGGTTAAGAGCATAAGGATCTGCACACCTATGGGCCAAGTGGGCGACAGCTGCCACCCCTG
ACTCGGAAAAGTCATGTTGCAAATGGAAGGCAGGAAAGAAGAAGGGCGAAGAGAAGAAAGAGGAAGAAGG
AGGTTCCATTTTGGGGGCGGAGGATGCACCACCTGCCCTGCCTGCCAGGCTTGGCGTGTTTAAGGAC
TTCTTTCAACCGTTTATTTGCTTGCCCCGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217115 representing NM_015768
Red=Cloning site Green=Tags(s)

MGDPRCAPLLLLLLLLPLLFPPAGDAAVITGACDKDSQCGGMCCAVSIWVKSIRICTPMQVGDSCPL
 TRKSHVANGRRQERRRAKRRKRKEVPFWGRRMHHTCPCLPGLACLRTSFNRFICLARK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


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Cloning Scheme:


ACCN: NM_015768

ORF Size: 384 bp

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.

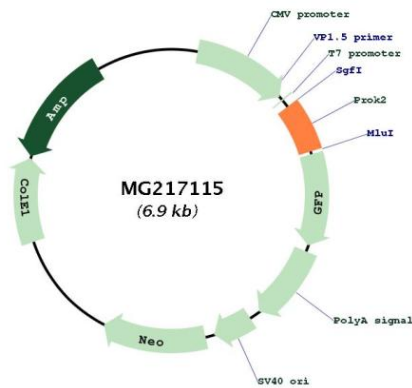
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015768.2](#), [NP_056583.1](#)

RefSeq Size: 1513 bp

RefSeq ORF:	387 bp
Locus ID:	50501
UniProt ID:	Q9QXU7
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]

Product images:



Circular map for MG217115