

Product datasheet for **RC225090**

Prokineticin 2 (PROK2) (NM_001126128) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prokineticin 2 (PROK2) (NM_001126128) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PROK2
Synonyms: BV8; HH4; KAL4; MIT1; PK2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225090 representing NM_001126128
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGAGCTGTGCTGCGCCCCACTCCTGCTCCTTTGCTGCTGCCGCCGCTGCTGCTCACGCCCCGG
CTGGGGACGCCCGGTGATCACCGGGCTTGTGACAAGGACTCCCAATGTGGTGGAGGCATGTGCTGTGC
TGTCAGTATCTGGTCAAGAGCATAAGGATTTGCACACCTATGGGCAAAGTGGGAGACAGCTGCCATCCA
CTGACTCGTAAAAACAATTTTGGAAATGGAAGGCAGGAAAGAAGAAAGAGGAAGAGAAGCAAAGAAAA
AGGAGGTTCCATTTTTGGGCGGAGGATGCATCACACTTGCCCATGTCTGCCAGGCTTGCCCTGTTTACG
GACTTCATTTAACCGATTATTTGTTTAGCCAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225090 representing NM_001126128
Red=Cloning site **Green**=Tags(s)

MRLCCAPLLLLLLLLPLLLLTPRAGDAAVITGACDKDSQCGGMCCAVSIWKSIRICTPMGKLGDSCHP
LTRKNNFNGNRQERRKRKRKRKKEVPPFFGRMHHTCPLPGLACLRTSFNRFICLAQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

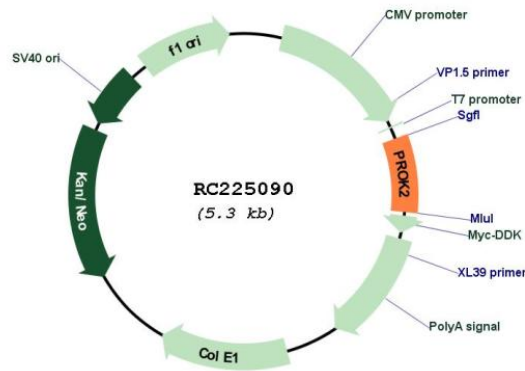


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_001126128

ORF Size:

387 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:	<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_001126128.2
RefSeq ORF:	390 bp
Locus ID:	60675
UniProt ID:	Q9HC23
Cytogenetics:	3p13
Protein Families:	Druggable Genome, Secreted Protein
MW:	14.31 kDa
Gene Summary:	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]