

Product datasheet for RC214720

Prokineticin 2 (PROK2) (NM_021935) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prokineticin 2 (PROK2) (NM_021935) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prokineticin 2
Synonyms: BV8; HH4; KAL4; MIT1; PK2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214720 representing NM_021935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAGCCTGTGCTGCGCCCCACTCCTGCTCCTTTGCTGCTGCCGCCGCTGCTGCTCACGCCCCGG
CTGGGACCGCCGTGATCACCGGGCTTGTGACAAGGACTCCCAATGTGGTGGAGGCATGTGCTGTGC
TGTCAATCTGGGTCAAGAGCATAAGGATTTGCACACCTATGGGCAAAGTGGGAGACAGCTGCCATCCA
CTGACTCGTAAAGTTCCATTTTTGGGCGGAGGATGCATCACACTTGCCCATGTCTGCCAGGCTTGGCT
GTTTACGGACTTCATTTAACCGATTTATTGTTTAGCCAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214720 representing NM_021935
 Red=Cloning site Green=Tags(s)

MRSLLCCAPLLLLLLLLPLLLLTPRAGDAAVITGACDKDSQCQGGMCCAIVSIWKSIRICTPMGKLGDSCHP
LTRKVPFFGRRMHHTCPCLPGLACLRTSFNRFICLAQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2565_d02.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021935

ORF Size: 324 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 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](#)

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.

RefSeq: [NM_021935.4](#)

RefSeq Size: 1406 bp

RefSeq ORF: 327 bp

Locus ID: 60675

UniProt ID: [Q9HC23](#)

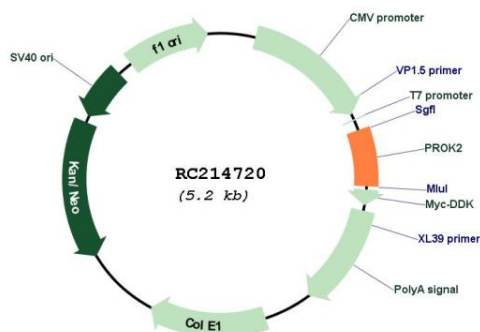
Cytogenetics: 3p13

Protein Families: Druggable Genome, Secreted Protein

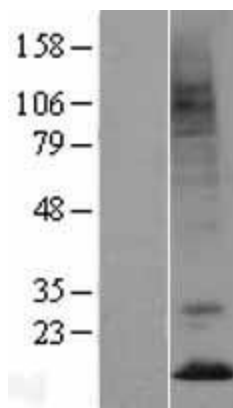
MW: 8.8 kDa

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]

Product images:



Circular map for RC214720



Western blot validation of overexpression lysate (Cat# [LY402885]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214720 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).