

Product datasheet for **MR221253**

Kcna10 (NM_001081140) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna10 (NM_001081140) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcna10
Synonyms:	Gm1962; Kcna8; Kv1.8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221253 representing NM_001081140
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGTGTGTAGCTGGAAGAAATGGAGTTGCTCTGGTCAATTTTGATAACTCGGATGAAATCCATG
 AAGAGCCAGGCTATGCCACAGACTTTGACCAACCAGCTCAAAGGCCGCCCTGGTAGCAGTCCCTTTTC
 CAATTGGAGAGTCTTATCAGTGACAACACCAACCATGAAACTGCCTTCTCCAAGATCCCAGGAGAGTAT
 GTGGATCCCCCGGGACCTGAGCCAGTGGTCTTGAATGAGGGAAACCAAAGGGTGCATCAACATTGCTG
 GTCTGAGATTCGAGACTCAGCTCAGAACACTTAATCAATCCCAGAGACTCCTGGGAGACCGGGAGAA
 AAGGATGCAATTTTTGACTCCATGAGAAATGAGTATTTCTTTGATAGAAACAGACCTAGTTTTGATGGA
 ATCTTATATTATTACCAGTCTGGTGGGAAATACGGCGGCCAGCCAACGTGCCTATCGATGTTTTGCTG
 ATGAGATCCTCTATGAACTGGTAGCGAGGCCATGGACCAGTCCGGGAGGATGAAGGCTTCATTAA
 GGACCCTGAGACTGCTGCCACCAATGACTTTCACCGCAATTCTGGCTTCTCTTTGAGTACCCCGAG
 AGCTCCAGTGCAGCTCGAGGAGTGGCTGTGGTCTCGGTTTTGGTGTAGTCATCTCCATCACCATCTTCT
 GCCTGGAGACTCCCAGAGTCCGAGAGGACAGGGAGCTGAAGTGGTGCAGAGACCCAGCATCAATAC
 AAACAAAACAGGCCTCTCCCAGACCATGTTCACTGATCCTTTCTTCATGGTGGAGTCCACCTGCATCGTG
 TGGTTCACCTTTGAGCTGGTGTCCGGTTTGTGGTCTGCCCCAGCAAGACTGACTTCTTCAAGAACATCA
 TGAATATTATTGACATCATCTCCATCATCCCTACTTTGCAACCCCTATAACAGAGCTAGTACAGGAGAC
 CGAGCCAAGTGCCAGCAGAACATGTCCCTGGCCATCTGAGGATCATTCTGTCTGGTGGGGTCTCCGC
 ATCTTCAAGCTTCTCGACTCTAAAGGGCTGCAGATCCTGGGGCAGACGCTGAAGGCTTCCATCGCGG
 AGCTGGGGTCTCATCTTCTCTCTTTCATTGGGGTCACTCTTCTCCAGTGCAGTCTACTTTGCTGA
 AGTGGATGAGCCAGAGTCCCATTTCTCTAGCATTCTGATGGCTTCTGGTGGGCTGTGGTACCATTGACA
 ACTGTAGGCTACGGTGCATGTGCCAACCACCCAGGAGGAAAGATTGTGGTACTCTGTGCGCCATTG
 CTGGTGTCTCACCATCGCCCTCCCTGTGCTGCTCATTGTCTCCAATTTCAACTACTTCTACCACCGTGA
 GACTGAGAACGAGGAGAAGCCAAACATCCCAGGAGAACTGACAAAATCTCAACAGCATGGGCTCCAGA
 ATGGGGAGTACTGAGTCTCTCAACAAGACCAATGGCAGTGTCTGCAGAGAAGTCCAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221253 representing NM_001081140
 Red=Cloning site Green=Tags(s)

MDVCSWKEMEVALVNFNSDEIHEEPGYATDFDPTSSKGRPGSSPFSNWRVLISDNTNHETAFAFKIPGEY
 VDPPGPEPVVLENGNQRVIIINIAGLRFETQLRTLNQFPETLLGDREKRMQFFDSMRNEYFFDRNRPSFDG
 ILYYYQSGGKIRRANVPIDVFADIEISFYELGSEAMDQFREDEGFIKDPETLLPTNDFHRQFWLLFEYPE
 SSSAARGVAVVSVLVVVISITIFCLETLPEFREDRELKVVRDPSINTNKTGLSQTMTDPPFFMVESTCIV
 WFTFELVLRVVCPSKTDFFKNIMNIIDIISIIPYFATLITELVQETEPSAQQNMSLAILRIIRLVRFVFR
 IFKLSRHSKGLQLGQTLKASMRELGLLIFFLFVILFSSAVYFAEVDEPESHFSSIPDGFVWAVVTMT
 TVGYGDMCPTTPGGKIVGTLCAIAGVLTIALPVPVIVSNFNFYHRETENEKPNIPGELDKILNSMGSR
 MGSTESLNKTNNGSCSAEKSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_b05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001081140

ORF Size: 1533 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.

RefSeq: [NM_001081140.1](#), [NP_001074609.1](#)

RefSeq Size: 1826 bp

RefSeq ORF: 1536 bp

Locus ID: 242151

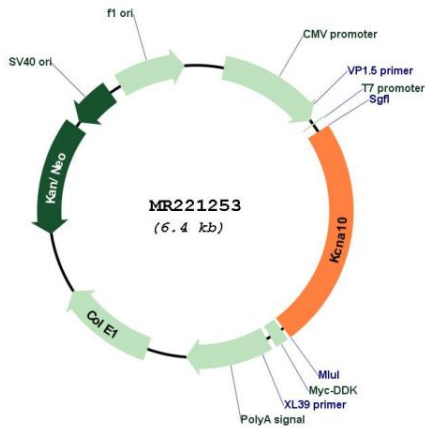
UniProt ID: [B2RQA1](#)

Cytogenetics: 3 46.64 cM

MW: 58.4 kDa

Gene Summary: Mediates voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. The channel activity is up-regulated by cAMP. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221253