

Product datasheet for **RR206651**

Kcnk12 (NM_022292) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk12 (NM_022292) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnk12
Synonyms:	THIK-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR206651 representing NM_022292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTCCCGCAGCCCCGGCCCCCGCCCGCTGCCGCCGCCCTGCCGCCCCCTCTGTCTGCT
 GCTGCTGCTGCCGCCCTCGCACCTCAACGAGGACACCGACGCTTCGTGCTGCTGGCCGCTCATTGG
 CCTCTACCTGGTGGCGGCCACCGTCTTCTCCGCGCTCGAGAGCCGGGCGAGCGGAGGCGCGGGCG
 CGCTGGGGCGCCACGCTGCGCAACTCAGCGCTGCGCACGGCGTCGCGGAGCCGAGCTGCGCGCTTCC
 TCCGGCACTACGAGGCCGCTGGCCGCCGGGTCCGCGCCGACGCGCTGCGCCCGCTGGGACTTCCC
 TGGAGCCTTCTACTTCGTGGCACCGTGGTGTGACCATAGGCTTCGGCATGACCACCCAGCCACAGTG
 GCGGGAAAGCCCTTCTCATCGCTACGACTGTTCCGGTGCAGGGGACCATCTGTTCTTCAACCTCT
 TTCTGGAGCGCATCATCTGCTGCTGGCCTTATCATGCGCGCTGCCGGAGCGTCAGTGCGCCGACG
 TGGCCTGCTGCCGCCACCTTCCGCCGAGCTCGCGCTGTCGGAGCCGACAGCCTGGCGGGCTGGAAG
 CCCTCGGTGTATCACGTGCTGCTCATCTGGGCCCTGTTCCCGTGTGCTGGCCTGCTGCGCCTCGGCCA
 TGTACACCAGCGTGGAGGGCTGGGACTACGTGGACTCGCTCTACTTCTGCTTCGTACCTTCAGCACCAT
 CGGCTTCGGGGACCTGGTGGAGCAGCCAGCACGCCCTACCGGAACCAGGGGCTCTACCGTCTGGGCAAC
 TTCCTTTTTCATCTGCTCGCGTGTGCTGCATCTACTCGCTTCAACGTATCTCCATCTCATCAAGC
 AGGTGCTCAACTGGATGCTGCGCAAGCTGAGTGCCTGCTGCACGCGCTGCTGCCCGGCTCCCGGCGC
 GCCCTGTCCCGCGCAACGCCATACCCCGGGCTCCCGGCTGCGCCGTGCGCTGGCCGCGCTGGTACC
 GACCCCGCGCTCGCGACAGCGACGCCGAGGGCCGCCCTGTCGGGAGAGCTCATCTCAATGCGCGACC
 TCACGGCGTCCAACAAGGTGTCGCTGGCACTGTCGAGAAGCAGCTTCCGAGACGGCAACGGCTACCC
 GCGCAGCGTGTGCGTCAACACGCCGCAACGGCTTCTCGGGCGCGTGGCGCGCTGGGCATCATGAAC
 AACCGGCTGCGAGAGACCAGCGCTCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206651 representing NM_022292
 Red=Cloning site Green=Tags(s)

MSSRSRPPPPRRRCRRRLPRPSCCCCCRRSHLNEDTGRFVLLAALIGLYLVAGATVFSALSPGEAEARA
 RWGATLRNFSAAHGVAEPELRAFLRHYEAALAAGVRADALRPRWDFPGAFYFVGTVVSTIGFGMTTPATV
 GGKAFLIAYGLFGCAGTILFFNFLFLERIIISLLAFIMRACRERQLRRSGLLPATFRRGSALSEADSLAGWK
 PSVYHVLLILGLFAVLLACCASAMYSVEGWYVDSLIFCFVTFSTIGFGDLVSSQHAAYRNQGLYRLGN
 FLFILLGVCCIIYSLFNVISILIKQVLNMLRKLSCRCTRCCPAPGAPLSRRNAITPGSRLRRRLAALGT
 DPAARDSDAEGRRLSGELISMRDLTASNKVSLLALLQKQLSETANGYPRSVCVNTRQNGFSGGVGALGIMN
 NRLAETSASR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022292

ORF Size: 1290 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_022292.1](#), [NP_071628.1](#)

RefSeq Size: 1900 bp

RefSeq ORF: 1293 bp

Locus ID: 64119

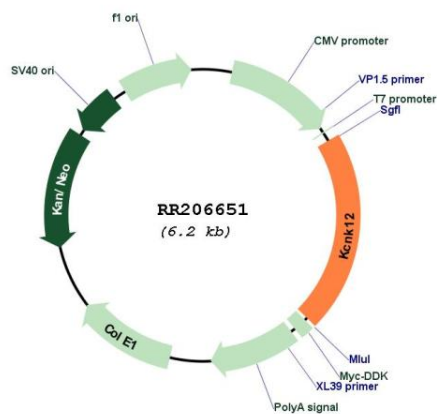
UniProt ID: [Q9ERS1](#)

Cytogenetics: 6q12

MW: 47 kDa

Gene Summary: tandem pore domain halothane inhibited K(+) channel [RGD, Feb 2006]

Product images:



Circular map for RR206651