

Product datasheet for **MR219005**

Kcnj4 (NM_008427) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Kcnj4
Synonyms:	IRK3; Kcnf2; MB-IRK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR219005 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCACGGACACAACCGAAACGGGAGGCCACGTGCCAGGCGGAAACGCCGCAACCGCTTTGTCAAGA
 AGAACGGCCAGTGTAACTCTACTTCGCCAACCTGAGCAACAAGTCCCAGCGCTACATGGCAGACATCTT
 CACCACCTGCGTGGACACGCGTGGCGCTATATGCTCATGATCTTCCGCGGCTTCTCGTTTCTG
 CTCTTCTCGGCTCTCTTCTGGTGCATTGCCTTCTTCCATGGTGACCTGGAGGCCAGTCCCTCTGTGC
 CCGCGGAGGAGGCCGGGGGCAATGGCGGGCAAGCCGAATGCCCCAAACCTGTATCATGCACGT
 AAACGGCTTTTGGGGGCTTCTCTTCTCAGTGGAGACCCAGACGACCATTTGGCTACGGGTTCCGGTGT
 GTGACAGAGGAGTCCCGTTGGCGGTTCATTGCGGTGGTGTCCAGTCCATTGTGGGTGTGTTCATTGACT
 CCTTCATGATTGGCAGCATCATGGCCAAGATGGCAGGCCCAAGAAGCGGGCACAGACCTGCTGTTTCA
 CCACCATGCTGTCATCTCGTTCGAGACGGCAAGCTCTGCCTGATGTGGCGCTGGGTAACCTGCGCAAG
 AGTCACATTGTGGAGGCCACGTCCGGGCCAGCTCATCAACCTTACATGACACAGGAGGGTGAGTACC
 TGCCACTGGACAGCGGACCTCAACGTGGGCTATGACATCGGCCTGGACCGCATCTTCTTGGTGTCAAC
 CATCATCATAGTGCATGAAATCGACGAGGACAGCCACTCTACGGCATGGGCAAGGAAGAGCTGGAGTCA
 GAGGACTTTGAGATTGTGGTTCATCTGGAGGGTATGGTGGAGGCCACGGCTATGACCACTCAGGCCCGCA
 GCTCCTATCTGGCAGTGAGATCCTGTGGGTACCGGTTTGAGCCTGTGGTCTTCGAGGAAAAGAGTCA
 CTACAAGTGGACTACTCAGATTCACAAGACCTATGAGGTGGCTGGCAGCCTTGTGCTCGGCCGT
 GAGTGCAGGAGAGCAAGATCACGGTGTGCCGCCACCAGCCCTCCAGTGCCTTCTGCTATGAGA
 ATGAGCTGGCCCTATGAGCCAGGAGGAAGAGGAGATGGAAGAGGAGGCTGCGGCCGAGCAGCCGTGGC
 TGCAGGCTGGGCTGGAGGCAGGTTCAAAGAGGAGGAGGAGGATATCCGGATGCTTGAGTTGGCAGC
 CACCTGGATCTGGAGCGCATGCAAGCCGCCACCCTTCACTGGACAATATTTCTATCGCAGGGAATCTG
 CCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219005 protein sequence
 Red=Cloning site Green=Tags(s)

MHGHNRNGQAHVPRRKRNRVFKNGQCNVYFANLSNKSQRYMADIFTTCVDTRWRYMLMIFSAFLVSW
 LFFGLLFWCIAFFHGDLEASPSVPAAGPGGNGGASPNAPKPCIMHVNGFLGAFLFSVETQTTIGYGFRC
 VTEECPLAVIAVVVQSIIVGCVDSFMIGTIMAKMARPKKRAQTLLFSHHAIVSVRDGKLCMLWRVGNLRK
 SHIVEAHVRAQLIKPYMTQEGEYLPLDQRLNVGYDIGLDRIFLVSPIIIVHEIDEDSPLYGMGKEELES
 EDFEIVVILEGMVEATAMTTQARSSYLASEILWGRFEPVVFEEKSHYKVDYSRFHKTYEVAGTPCCSAR
 ELQESKITVLPAPPPPSAFICYENELALMSQEEEEEEEEAAAAAAGLGLAGSKEEAGIIRMLEFGS
 HLDLERMQAATLPLDNISYRRESAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008427

ORF Size: 1335 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:

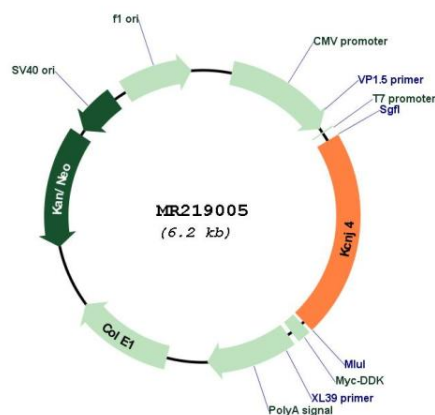
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_008427.1](#), [NM_008427.2](#), [NM_008427.3](#), [NM_008427.4](#), [NP_032453.3](#)

RefSeq Size: 2167 bp
 RefSeq ORF: 1338 bp
 Locus ID: 16520
 Cytogenetics: 15 37.74 cM
 MW: 49.6 kDa

Product images:



Circular map for MR219005