

Product datasheet for **MC205408**

Kcnj14 (NM_145963) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj14 (NM_145963) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj14
Synonyms:	A930026G01Rik; IRK4; Kir2.4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031753
 GTGCCCGGCTCAGGCTCAGGCCAGGGCCGAGGACAGACCTGAACACATTAGCACCCACAGAGGCC
 CTCTCCAGCCTGAGCAGAGGAACCCCACTGCAGGGAATGGGGTGGCGGCCCCCAAGTGGGGC
 GCCTGCCCCCGCTAGGACAGATCTAGAGGGGTCTCCCAACCAATGGGCTGGCTAGGGCCCTGCGC
 GCCTGAGCGCGCGCTGGAGCCAGGAAACAGTCGAGCTGGGATGAGGAAGAGCGGGGGCCGACTGTG
 CCGCAATGGTGGCTCCTGGACCGTAGCTGGGAGCCGCGCGCCGCGGCTTCGTCAAAAAGATGGG
 CACTGCAATGTGCGCTTCGTGAATCTGGCGGCCAGGGCGCGCTACCTAAGTGACCTGTTACACAT
 GTGTGGAGCTGCGCTGGCGCTGGATGTGCTGCTTCTCTGTTCTTCTCGCTCCTGGTTGCTCTT
 CGGCTGACCTTCTGGCTCATCGCTCGCTGCACGGCAGCTAGCTGCCCAACCGCCACCGGCTCCCTGT
 TTCTCGCAAGTGGCCAGCTTCTGGCTGCCTTCTCTTTGACTGGAGACACAGAGCTCCATAGGCTATG
 GTGTGCGCAGCGTCACCGAGGAGTGTCCAGCTGCTGTGGCGCTGTGGTGTGAGTGCATCGCAGGCTG
 TGTGCTCGACGCTTCGTGCTGGTGCAGTTATGGCAAGATGGCAAGCCCAAGAAACGCAACGAGACA
 CTAGTCTCAGTGAGAACGCAGTGGTGGCTCTGCGAGACCACGCTCTGCTCATGTGGCGGTGGCA
 ACCTGCGACGCAGTCACCTGGTGAAGCTCACGTGCGGGCCAGCTGCTGCAGCCCGTGTGACCCCGA
 GGGTGAGTACATCCCACTGGACCACAGGATGTAGATGTTGGTTTTGATGGAGGCACTGATCGCATCTT
 CTGCTCTCCCCATTACATTGTGCATGAGATTACTCTGCCAGTCCACTGTATGAGCTGGGGCGGGCCG
 AGCTGGCCCGGGCTGACTTTGAGCTGGTGGTATTCTTGAAGGTATGGTTGAGGCCACAGCCATGACTAC
 ACAGTGGCGCTCATCTTACCTCCAGGTGAGTGTCTGGGGACATCGCTTCGAGCCGGTCTTCCAG
 CGTGGCTCCCAGTATGAGTTGACTATCGCCACTTCCATCGAACATATGAGGTCCAGGGACACAGTCT
 GCAGTGCCAAGGAGCTGGATGAACGGGCAGAGCAGGCTTCCACAGCCCTAAGTCAAGTTTCCCTGGCTC
 CCTCACTGCATTTGTTATGAGAATGAACCTGCTGAGCTGCTGCCAGGAGGAAGATGAGGAGGAGGAC
 ACTAAGGAGGGGACTTCAGCAGAGACCCAGAGAGGGCTGCCAGCCCAAGCTTTACACCAACCTGG
 CTCTGACCTGCCTCCATGACACAGCTGAGGCCACTTCCCATGTGACACCCCTCCCAAGATGAC
 CTCTCTCCAGCCTCTGATGGGAGTGGGACAGGGTTTTCTCAGGCCAGTGGCCTGCTGAGGTGACCATT
 AACACAGGAGTGTCTACCACAGATAGACCACACCTTTATTTCTGCTCATTCTCACTCCCGAGACCC
 CTTTATGAGCTGGATTCTGAGGCTTACCAGAGCCGAAGGATCAGATTTCTGGACCATAAGAGACAAG
 GCGTGGAGGCTGGTTTTGGTTGAACATCAGTGAGATACACAGCGTCATGGAGGAAAATGTCAATTTACA
 CAGATCAAGAAACAAGGATTCAGGATCATTATAATTGACCAAAGACAGAACAGTACTGGACCGTGTGTG
 GAGAAAAGGCCAGTGGCTCCAGAAAGCCCAAGAGTTGAGATTCTTGGAGTCTAAGTTGACTGGGGA
 TTCTAAAAACAGGTTGGCTAGAGGAGAGTGGAGCTGCTCCAGAAACTACAAAGCTATGTTTCTAGAATACA
 CAAAACCTTTGGTAGGTTTCTGAGTGTGGAAGGACTAAGCTGACACACGAAGGTTCCAGATCCCGAGGAC
 TCTGGAGGACTGGCTGTGTAGGTCGGCTAGAGGGGTAGGTAGGTCTGGCTTCTCCATGATCCACAGG
 GTGAATTTGTTTTGTTTGAAGTGCCATTCTAGAGCATCCAAAGGAATCAGGTTCTGTGGTTCAGGGC
 TGATCAGAGTCCGGTGGGATCCTAGCTGTCTGTGATTTGCTGGCTCCGCTCTGCCTAGCAGGGCTGGG
 ACCTCCATGACCTGGCTGGCTTGTATGGTTCTGTAATGCCAAAAGGAATCAAACTCCAGAGACCAGC
 GCTGCTCTGCCAAAGCCTAGAAGTCTAGTACCTTCAGATGGACAGCCTGACAGCTTAGGAGGTAG
 AACTGCTCTGGGTGGAGCTTGAAGCAAGAGCCTGGACGATCACAGAGCTAACGAATGGAAAAGGGAAG
 GAAGAGGCTGAGGCCGCAAGCCTAAAAATCCTGGATTACTATACCTAGTGTGTGTCTTTCTCA
 CAGATATTATACAGATGTGATTATATATGATATAAATACAGATCTCTAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_145963
- Insert Size:** 1305 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC031753](#), [AAH31753](#)

RefSeq Size: 2652 bp

RefSeq ORF: 1305 bp

Locus ID: 211480

UniProt ID: [Q8JZN3](#)

Cytogenetics: 7 B3

Gene Summary: Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. KCNJ14 gives rise to low-conductance channels with a low affinity to the channel blockers Barium and Cesium (By similarity).[UniProtKB/Swiss-Prot Function]