

Product datasheet for **MC200073**

Igk (BC002112) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igk (BC002112) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Igk
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC002112
 CAGCCTCACACTGATCACACACAGACATGAGTGTGCCCACTCAGGTCCTGGGGTTGCTGCTGCTGTGGCT
 TACAGATGCCAGATGTGACATCCAGATGACTCAGTCTCCAGCCTCCCTATCTGTCTCTGTGGGAGAACT
 GTCACCATCACATGTGCGAGCAAGTGAAAATATTTACAGTAATTTAGCATGGTATCAGCAGAAACAGGGAA
 AATCTCCTCAGCTCCTGGTCTATGCTGCAACAACTTAGCAGATGGTGTGCCATCAAGATTTCAGTGGCAG
 TGGATCAGGCACACAGTATTCCTCACGATCAACAGCCTGCAGTCTGAAGATTTGGGAGTTATTACTGT
 CAACATTTTTGGGGTACTCCGTTACATTCGGAGGGGGACCAAAGTGGGGATAAAACGGGCTGATGCTG
 CACCAACTGTATCCATCTTCCCACCATCCAGTGAGCAGTTAACATCTGGAGGTGCCTCAGTCGTGTGCTT
 CTTGAACAACCTTACCCCAAAGACATCAATGTCAAGTGAAGATTGATGGCAGTGAACGACAAAATGGC
 GTCCTGAACAGTTGGACTGATCAGGACAGCAAAGACAGCACCTACAGCATGAGCAGCACCCCTCACGTTGA
 CCAAGGACGAGTATGAACGACATAACAGCTATACCTGTGAGGCCACTACAAGACATCAACTTCCCACCT
 TGTCAAGAGCTTCAACAGGAATGAGTGTTAGAGACAAAGGTCCTGAGACGCCACCACAGCTCCCCAGCT
 CCATCCTATCTTCCCTTCTAAGGTCTTGGAGGCTTCCCCACAAGCGACCTACCACTGTTGCGGTGCTCCA
 AACCTCTCCCCACCTCTTCTCCTCCTCCTCCTTTCCTTGGCTTTTATCATGCTAATATTTGCAGAAA
 ATATTTCAATAAAGTGAGTCTTTGCACCTTGAAAAAAAAAAAAAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	BC002112
Insert Size:	705 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).



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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: [BC002112](#)

RefSeq Size: 954 bp

RefSeq ORF: 705 bp

Locus ID: 243469

Cytogenetics: 6 30.89 cM

Gene Summary: Summary: Immunoglobulins recognize foreign antigens and initiate immune responses such as phagocytosis and the complement system. Each immunoglobulin molecule consists of two identical heavy chains and two identical light chains. There are two classes of light chains, kappa and lambda. This region represents the germline organization of the kappa light chain locus from the C57BL/6J inbred mouse strain. The locus includes V (variable), J (joining), and C (constant) segments. During B cell development, a recombination event at the DNA level joins a single V segment with a J segment; the C segment is later joined by splicing at the RNA level. Recombination of many different V segments with several J segments provides a wide range of antigen recognition. Additional diversity is attained by junctional diversity, resulting from the random additional of nucleotides by terminal deoxynucleotidyltransferase, and by somatic hypermutation, which occurs during B cell maturation in the spleen and lymph nodes. Several V segments in this cluster are incapable of encoding a protein and are considered pseudogenes. [provided by RefSeq, Jul 2008]