

## Product datasheet for **MC223205**

### KI (NM\_013823) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KI (NM\_013823) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KI  
**Synonyms:** alpha-kl  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC223205 representing NM\_013823  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTAGCCCGCCCTCCTCGCCGCCCGCGGGTGGTGTCTCCGTTTGTGTTGCTGCATCTGC  
 TGCTGCTCGCCCTGCGCGCCCGTGCCTGAGCGCTGAGCCGGGTGAGGGCGCGCAGACCTGGGCTCGCTT  
 CGCGCGCGCTCCTGCCCCAGAGGCCGCTGGCTCCTCCACGACACCTTCCCCGACGGTTTCTCTGGGCG  
 GTAGGCAGCGCCCTATCAGACCGAGGGCGGTGGCGACAGCACGGCAAAGCGCGTCCATCTGGGACA  
 CTTTCACCATCACTCTGGGGCGCCCCGTCGACTCCCCGATCGTCGTGGCGCCGTCGGGTGCCCGTC  
 GCCTCCCCGTGCTCCACTGGAGATGTGGCCAGCGATAGTTACAACAACGTCTACCGCGACAGAGGGG  
 CTGCGCGAACTGGGGTCACTACCCACTACCGCTTCTCCATATCGTGGGCGCGGGTGTCCCCAATGGCACCG  
 CGGGCACTCCCAACCGCGAGGGGCTGCGTACTACCGCGGGTGTGGAGCGGCTGCGGGAGCTGGGCGT  
 GCAGCCGGTGGTTACCCTGTACCATTGGGACCTGCCACAGCGCCTGCAGGACACCTATGGCGGATGGGCC  
 AATCGCGCCCTGGCCGACCATTTAGGGATTATGCCGAGCTCTGCTTCCGCCACTTCGGTGGTCAAGTCA  
 AGTACTGGATCACCATTGACAACCCCTACGTGGTGGCTGGCACGGGTATGCCACCGGGCGCCTGGCCCC  
 GGGCGTGGGGGAGCTCCAGGCTCGGGTACCTGGTTGCCACAACCTACTTTGGCTCATGCCAAAGTC  
 TGGCATCTACAACACCTTTTCCGCCACACAGGGAGCGGGTGTCTATCGCCTTAAGCTCCCATT  
 GGATCAATCCTCGAAGAATGACTGACTATAATATCAGAGAATGCCAGAAGTCTTTGACTTTGTGCTAGG  
 CTGGTTTGGCAAACCCATATTTATTGATGGCGACTACCCAGAGAGTATGAAGAACAACCTCTCGTCTCTT  
 CTGCTGATTTTACTGAATCTGAGAAGAGGCTCATCAGAGGAACTGCTGACTTTTTTGTCTCTCTCTTCG  
 GACCAACCTTGAGCTTTAGCTATTGGACCCTAACATGAAGTCCGCCAATTGGAGTCTCCCAACCTGAG  
 GCAGCTTCTGTCTGGATAGATCTGGAATATAACCACCCTCCAATATTTATTGTGAAAAATGGCTGGTTT  
 GTCTCGGGAACCAAAAAGGGATGATGCCAAATATATGTATTATCTCAAGAAGTTCATAATGGAAACCT  
 TAAAAGCAATCAGACTGGATGGGTGACGTCATTGGGTACACCGCGTGGTGCCTCATGGACGGTTTCGA  
 GTGGCATAGGGGTACAGCATCCGGCGAGGACTTCTACGTTGACTTTCTGAGTCAGGACAAGGAGCTG



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TTGCCAAAGTCTTCGGCCTTGTTCTACCAAAAGCTGATAGAGGACAATGGCTTTCCTCCTTACCTGAAA
ACCAGCCCCTTGAAGGGACATTTCCCTGTGACTTTGCTTGGGGAGTTGTTGACAACACTACGTTCAAGTGGA
CACTACTCTCTCTCAGTTTACTGACCCGAATGTCTATCTGTGGGATGTGCATCACAGTAAGAGGCTTATT
AAAGTAGACGGGGTTGTAGCCAAGAAGAGAAAACCTTACTGTGTTGATTTCTCTGCCATCCGGCCTCAGA
TAACCTTACTTCGAGAAATGCGGGTCACCCACTTTCGTTCTCCCTGGACTGGGCCCTGATCTTGCCTCT
GGGTAAACCAGACCCAAGTGAACCACACGGTTCGCACTTCTACCGCTGCATGATCAGCGACTGGTGCAC
GCCAACATCACTCCAGTGGTGGCCCTGTGGCAGCCAGCAGCCCGCACCAAGGCCTGCCACATGCCCTTG
CAAAACATGGGGCCTGGGAGAACCAGCACACTGCTCTGGCGTTTGCAGACTACGCAAACTGTGTTTTAA
AGAGTTGGGTCACTGGTCAATCTCTGGATCACCATGAACGAGCCAAACACGGAACATGACCTATCGT
GCCGGGACCACCTCCTGAGAGCCATGCCTTGGCTTGGCATCTGTACGATGACAAGTTTAGGGCGGCTC
AGAAAGGCAAAATATCCATCGCCTTGCAGGCTGACTGGATAGAACCAGGCCTGCCCTTCTCTCAAAATGA
CAAAGAAGTGGCCGAGAGAGTTTTGGAATTTGATATAGGCTGGCTGGCAGAGCCTATTTTTGGTTCCGGA
GATTATCCACGTGTGATGAGGGACTGGCTGAACCAAAAAACAATTTTCTTTGCCCTATTTACCCGAAG
ATGAAAAAAGCTAGTCCGGGGTTCCTTTGACTTCTGGCGGTGAGTCATTACACCACCATTCTGGTAGA
CTGGGAAAAGGAGATCCGATGAAATACAACGATTACTTGGAGGTACAGGAGATGACTGACATCACATGG
CTCAACTCTCCAGTCAAGTGGCAGTGGTGCCTTGGGGGCTGCGCAAAGTCTCAACTGGCTAAGGTTCA
AGTACGGAGACCTCCCGATGTATGTGACAGCAATGGAATCGATGATGACCCCCACGCCGAGCAAGACTC
ACTGAGGATCTATTATATTAAGAATTATGTGAATGAGGCTCTGAAAGCCTACGTGTTGGACGACATCAAC
CTTTGTGGCTACTTTGCGTATTCACCTTAGTGATCGCTCAGCTCCCAAGTCTGGCTTTTATCGATATGCTG
CGAATCAGTTTGAGCCCAAACCTCTATGAAACATTACAGGAAAATTATTGACAGCAATGGCTTCTCTGGG
TTCTGGAACACTGGGAAGTTTTGTCCAGAAGAATACACTGTGTGCACCGAATGTGGATTTTTTCAAACC
CGGAAGTCTTTGCTGGTCTTCATCTCGTTTCTTGTTTTACTTTTATTATTTCTCTTGTCTCATTTTTT
ACTACTCCAAGAAAGGCCAGAGAAGTTATAAGTAA
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1855\\_e11.zip](https://cdn.origene.com/chromatograms/ja1855_e11.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_013823

**Insert Size:** 3045 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC138258](#), [AAI38259](#)

**RefSeq Size:** 5124 bp

**RefSeq ORF:** 3045 bp

**Locus ID:** 16591

**UniProt ID:** [O35082](#)

**Cytogenetics:** 5 G3

**Gene Summary:** May have weak glycosidase activity towards glucuronylated steroids. However, it lacks essential active site Glu residues at positions 241 and 874, suggesting it may be inactive as a glycosidase in vivo. May be involved in the regulation of calcium and phosphorus homeostasis by inhibiting the synthesis of active vitamin D. Essential factor for the specific interaction between FGF23 and FGFR1.[UniProtKB/Swiss-Prot Function]