

## Product datasheet for **MC221655**

### **Kirrel (NM\_001170985) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kirrel (NM_001170985) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kirrel
Synonyms:	6720469N11Rik; Kirrel1; Neph1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221655 representing NM\_001170985  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTCTGGAGACCCCTAGCACACGTCTAATGACCTGCCAATCAAGCCTGCTCCCTGAGAAGCCCAGGT  
 TTCTGAGTCAGAAGATGTGGGCTCCACACTTAGTCGTTGCTTATCTTATCTTTGTGACTTTGGCTTTGGC  
 TTTGCCCGGGACTCAGACTCGCTTCAGCCAGGAGCCAGCTGATCAGACTGTGGTGCCGGACAGCGGGCG  
 GTGCTCCCGTGTGTGCTCCTAACTACTCTGGGATTGTACAGTGGACCAAGGACGGGCTGGCCCTGGGTA  
 TGGGCCAGGGCCTCAAAGCCTGGCCACGGTACCGGGTCTGGGCTCTGCGGATGCTGGGCAATACTT  
 GGAGATCACAGATGCCGAGCTGTCTGATGACGCTTCTATGAGTGCCAGGCCACGGAGGCTGCCCTGCGC  
 TCTCGGCGGGCCAACTCACCGTCTATTCTCCAGAGAAACAAGGATTGATGGGGGCCCGGTGATTC  
 TGCTGCAAGCAGGCACCCCTACAACCTCACGTGCAGAGCATTTAATGCCAAACCTGCTGCCACCATCAT  
 TTGGTTCCGAGATGGGACACAGCAGGAGGGGGCTGTGACTAGCACGGAGCTGCTGAAGGATGGGAAAAGG  
 GAGACCACAATACGCCAACTGCTCATTGAGCCACAGACCTAGACATTGGCCGCGTATTCACCTGTGCGA  
 GTATGAATGAGGCCATCCCAATGGCAAGGAGACATCCATTGAGCTTGATGTGCACCACCCTCCACAGT  
 GACTCTGTCCATCGAGCCCCAGACAGTGTGGAAGGCGAGCGTGTCAATTTTACATGCCAGGCCACAGCC  
 AACCCAGAGATCTTGGGCTACAGGTGGGCCAAAGGGGGCTTCTTGATTGAAGACGCCCATGAGAGTCGCT  
 ATGAGACAAACGTTGACTATTCCTTCTTACGGAGCCTGTGTCTTGTGAGGTTTATAACAAAGTCGGGAG  
 CACCAATGTCAGCACTTGTAGTGAATGTTCACTTCGCCCCCGGATTGTAGTTTACCCAAAGCCCACCACC  
 ACAGACATTGGATCTGATGTGACCCTCACCTGTGTCTGGGTTGGGAATCCTCCCTCACCCCTCACCTGGA  
 CCAAGAAGGACTCAAACATGGTCTCTGAGTAACAGCAATCAACTGTTGCTGAAGTCACTGACCCAGCAGA  
 TGCTGGCACCTATACCTGCCGGGCCATCGTGCCTCGGATCGGAGTGGCTGAGCGAGAGGTACCGCTTTAT  
 GTAACCGACCTCCTATCATCTCCAGCAGGCGGTACAGTTTGCTGTGAGAGGTGATGGCGGTAAGTGG  
 AGTGCTTTATCGGGAGTACCCACCTCCGGATCGAATTGCATGGGCATGGAAGGAGAAGTTCCTCGAGGT  
 GGGGACCCTGGAACGCTACACCGTGGAGAGGACGAACTCAGGCAGCGGTGTGCTGTCCACGCTCACCAT  
 AATAATGTCATGGAGGCGGACTTCCAGACCCACTACAACCTGCACTGCCTGGAACAGCTTTGGACCAGGCA  
 CAGCCATCATCCAGCTGGAAGAGCGAGAGGTGTTACCTGTGGGCATCATTGCCGGGGCCACCATCGGTGC  
 CGGCATCCTGGTCTTCTCTTTTGTGCCTTAGTGTCTTCTCTACCGACGTCGAAAGGCAGTCGA  
 AAGGATGTGACGTTGAGGAAGCTGGACATCAAGGTGGAGACGGTGAATCGGGAGCCACTTACGATGCACT  
 CTGACCCGGAGGATGATACTGCCAGCATTTCACGGCAACGCGGGTCAATGAAGGCCATCTACTCGTCCTT  
 TAAGGATGATGTGGATCTGAAGCAGGACCTGCGCTGTGACACCATTGACACCCGGGAAGAGTATGAGATG  
 AAGGATCCCAACCAATGGTTATTACAATGTGCGCGCCCACGAAGATCGCCCGTCTCCAGGGCGGTGCTGT  
 ATGCTGACTACCGTGCCCTGGCCCTACTCGTTTTGATGGGCGCCCATCATCCCGCTGTCCCACTCCAG  
 TGGTTATGCCAGCTCAATACGTACAGCCGGGCCCTGCCTCTGACTATGGCACAGAGCCTACACCCTCT  
 GGCCCTTCTGCTCCGGTGGCACCGATACGACCAGCCAGCTGTCTACGAGAATATGAGAAGTTCAACT  
 CCCACCCCTTTCCGGGGCAGCTGGGTATCCTACATACCGTCTAGGCTACCCCAAGGCCACCCCTCTGG  
 CCTGGAGAGGACCCCTACGAAGCGTATGACCCTATTGGCAAGTATGCCACCGCCACTCGGTTCTCTAC  
 ACCTCTCAGCACTCAGACTATGGCCAGCGATTCCAGCAGCGCATGCAGACTCATGT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001170985  
**Insert Size:** 2370 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:** [NM\\_001170985.1](#), [NP\\_001164456.1](#)

**RefSeq Size:** 7287 bp

**RefSeq ORF:** 2370 bp

**Locus ID:** 170643

**UniProt ID:** [Q80W68](#)

**Cytogenetics:** 3 F1

**Gene Summary:** Plays a significant role in the normal development and function of the glomerular permeability. Is a signaling protein that needs the presence of TEC kinases to fully trans-activate the transcription factor AP-1.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.