

Product datasheet for **MR209638**

Kirrel1 (BC023765) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Kirrel1 (BC023765) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Kirrel1 |
| Synonyms: | 6720469N11Rik; Kirrel1; Neph1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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**ORF Nucleotide
Sequence:**

>MR209638 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCTGGAGAGCCCTAGCACACGTCTAATGACCTGCCAATCAAGCCTGCTCCCTGAGAAGCCCAGGT
 TTCTGAGTCAGAAGATGTGGGCTCCACACTTAGTCGTTGCTTATCTTATCTTTGTGACTTTGGCTTTGGC
 TTTGCCCGGGACTCAGACTCGCTTCAGCCAGGAGCCAGCTGATCAGACTGTGGTGCCGGACAGCGGGCG
 GTGCTCCCGTGTGTGCTCCTAACTACTCTGGGATTGTACAGTGGACCAAGGACGGGCTGGCCCTGGGTA
 TGGGCCAGGGCCTCAAAGCCTGGCCACGGTACCGGGTCTGGGCTCTGCGGATGCTGGGCAATACTT
 GGAGATCACAGATGCCGAGCTGTCTGATGACGCTTCTATGAGTGCCAGGCCACGGAGGCTGCCCTGCGC
 TCTCGGCGGGCCAACTACCGTCTCATTCTCCAGAGAAACAAGGATTGATGGGGGCCCGGTGATTC
 TGCTGCAAGCAGGCACCCCTACAACCTCACGTGCAGAGCATTTAATGCCAAACCTGCTGCCACCATCAT
 TTGGTTCCGAGATGGGACACAGCAGGAGGGGGCTGTGACTAGCACGGAGCTGCTGAAGGATGGGAAAAGG
 GAGACCACAATACGCCAACTGCTCATTGAGCCACAGACCTAGACATTGGCCGCGTATTCACCTGTGCGA
 GTATGAATGAGGCCATCCCAATGGCAAGGAGACATCCATTGAGCTTGATGTGCACCACCCTCCACAGT
 GACTCTGTCCATCGAGCCCCAGACAGTGTGGAAGGCGAGCGTGTCAATTTTACATGCCAGGCCACAGCC
 AACCCAGAGATCTTGGGCTACAGGTGGGCCAAAGGGGGCTTCTTGATTGAAGACGCCCATGAGAGTCGCT
 ATGAGACAAACGTTGACTATTCCTTCTTACGGAGCCTGTGTCTTGTGAGGTTTATAACAAAGTCGGGAG
 CACCAATGTCAGCACTTGTAGTGAATGTTCACTTCGCCCCCGGATTGTAGTTTACCCAAAGCCCACCACC
 ACAGACATTGGATCTGATGTGACCCTCACTTGTGTCTGGGTTGGGAATCCTCCCTCACCTCACCTGGA
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 GTAACCGGACCTCCTATCATCTCCAGCAGGCGGTACAGTTTGCTGTGAGAGGTGATGGCGGTAAGGTGG
 AGTGCTTTATCGGGAGTACCCACCTCCGGATCGAATTGCATGGGCATGGAAGGAGAACTTCTCGAGGT
 GGGGACCCTGGAACGCTACACCGTGGAGAGGACGAACTCAGGCAGCGGTGTGCTGTCCACGCTCACCATT
 AATAATGTCATGGAGGCGGACTTCCAGACCCACTACAACCTGCACTGCCTGGAACAGCTTTGGACCAGGCA
 CAGCCATCATCCAGCTGGAAGAGCGAGAGGTGTTACCTGTGGGCATCATTGCCGGGGCCACCATCGGTGC
 CGGCATCCTGGTCTTCTCTTTTGTGCCTTAGTGTTCTTCTCTACCGACGTCGAAAGGCAGTCGA
 AAGGATGTGACGTTGAGGAAGCTGGACATCAAGGTGGAGACGGTGAATCGGGAGCCACTTACGATGCACT
 CTGACCGGGAGGATGATACTGCCAGCATTTCCACGGCAACGCGGGTCATGAAGGCCATCTACTCGGTGAG
 GATAATGCTCCTTTCAACGTGGCCTAGGCTCTTATTGTCTACGGCCAGCCCCACCAGCTTTAATGAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

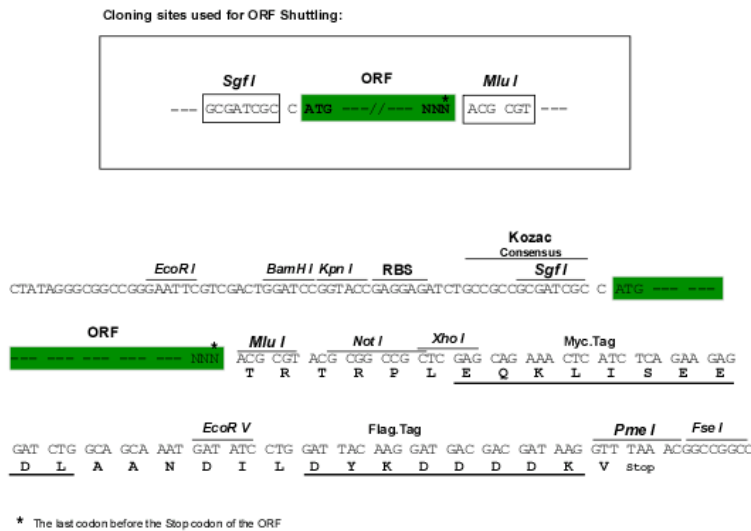
Protein Sequence: >MR209638 protein sequence
Red=Cloning site Green=Tags(s)

MTLESPSTRLMTCQSSLLPEKPRFLSQKMWAPHLVVAYLIFVTLALALPGTQTRFSQEPADQTVVAGQRA
 VLPVLLNYSIGIVQWTKDGLALGMGQGLKAWPRYRVVGSADAGQYNLEITDAELSDDASYEQATEAALR
 SRRAKLTVLIPPEETRIDGGPVILLQAGTPYNLTCRAFNAKPAATIIWFRDGTQQEGAVTSTELLKDGKR
 ETTISQLLIEPTDLDIGRVFTCRSMNEAIPNGKETSIELDVHHPPTVTLSEIQTVLEGERVIFTCQATA
 NPEILGYRWAKGGFLIEDAHESRYETNVDSFFTEPVSCEVYKVGSTNVSTLVNVHFAPRIVVYPKPTT
 TDIGSDVTLTCVWVGNPPLTLTWTKDSNMVLSNSNQLLLKSVTQADAGTYTCRAIVPRIGVAEREVPLY
 VNGPPIISSEAVQFAVRGDGGKVECFIGSTPPPDRIAWAWKENFLEVGLERTYVERTNSGSGVLSTLTI
 NNVMEADFQTHYNCTAWNSFGPGTAIIQLEEREVLPVGIAGATIGAGILVVFSAALVFFLYRRRKGSR
 KDVTLRKLDIKVETVNREPLTMHSDREDDTASISTATRVMKAIYSVRIMLLSTWPRLFIVLRPAPPAFND
 FRYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023765

ORF Size: 1902 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.

RefSeq: [BC023765](#), [AAH23765](#)

RefSeq Size: 2228 bp

RefSeq ORF: 1904 bp

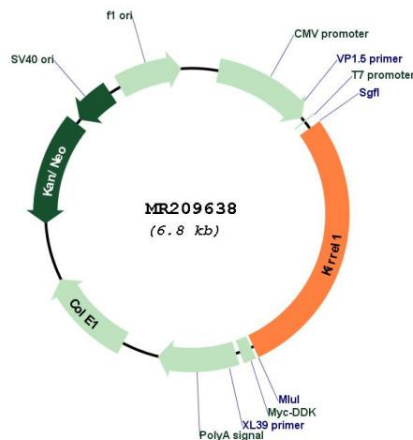
Locus ID: 170643

Cytogenetics: 3 F1

MW: 70 kDa

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]

Product images:



Circular map for MR209638