

Product datasheet for **RC239233**

KIRREL1 (NM_001286349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIRREL1 (NM_001286349) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIRREL1
Synonyms:	KIRREL; NEPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239233 representing NM_001286349
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGCCTCCTCGTCTGGATCCTCACTCTCTCCGATACTTTCTCCCAAGTCCCCCAGAGGACACCA
 GGATTGACGGAGGCCCTGTGATTCTACTGCAGGCAGGCACCCCCACAACCTCACATGCCGGCCTTCAA
 TGCGAAGCCTGTGCCACCATCATCTGGTTCGGGACGGGACGCAGCAGGAGGGCGCTGTGGCCAGCACG
 GAATTGCTGAAGGATGGGAAGAGGGAGACCACCGTGAGCCAAGTCTTATTAACCCACGGACCTGGACA
 TAGGGCGTGTCTTCACTTGCCGAAGCATGAACGAAGCCATCCCTAGTGGCAAGGAGACTTCCATCGAGCT
 GGATGTGACCAACCTCTACAGTGACCCTGTCCATTGAGCCACAGACGGTGCAGGAGGGTGAGCGTGTT
 GTCTTTACCTGCCAGGCCACAGCAACCCGAGATCTTGGGCTACAGGTGGGCCAAAGGGGGTTTCTTGA
 TTGAAGACGCCCACGAGAGTCGCTATGAGACAAATGTGGATTATTCCTTTTTACGGAGCCTGTGCTTG
 TGAGGTTCAACAAAGTGGGAAGCACCAATGTCAGCACTTTAGTAAATGTCCACTTTGCTCCCGGATT
 GTAGTTGACCCCAAAACCAACACAGACATTGGCTCTGATGTGACCCTTACCTGTGTCTGGGTTGGGA
 ATCCCCCCTCACTCTACCTGGACAAAAAGGACTCAAATATGGTCTGAGTAACAGCAACCAGCTGCT
 GCTGAAGTCGGTACTCAGGCAGACGCTGGCACCTACACCTGCCGGGCCATCGTGCCTCGAATCGGAGTG
 GCTGAGCGGGAGGTGCCGCTCTATGTGAACGGGCCCCCATCATCTCCAGTGAGGCAGTGCAGTATGCTG
 TGAGGGGTGACGGTGGCAAGGTGGAGTGTTCATTGGGAGCACACCACCCACAGCCGATAGCATGGGC
 CTGGAAGGAGAACTTCTTGGAGGTGGGGACCCTGGAACGCTATACAGTGGAGAGGACCAACTCAGGCAGT
 GGGGTGCTATCCACGCTCACCATCAACAATGTCATGGAGGCCGACTTTCAGACTCACTACAACTGCACCG
 CCTGGAACAGCTTCGGGCCAGGCACAGCCATCATCCAGCTGGAAGAGCGAGAGGTTTACCTGTGGGCAT
 CATAGCTGGGGCCACCATCGGCGCGAGCATCCTGCTCATCTTCTTCTCATCGCCTTGGTATTCTTCCTC
 TACCGGCGCCGCAAAGGCAGTCGCAAAGACGTGACCCTGAGGAAGCTGGATATCAAGGTGGAGACAGTGA
 ACCGAGAGCCACTTACGATGCATTCTGACCGGGAGGATGACACCGCCAGCGTCTCCACAGCAACCCGGT
 CATGAAGGCCATCTACTCGTCGTTAAGGATGATGTGGATCTGAAGCAGGACCTGCGCTGCGACACCATC
 GACACCCGGGAGGAGTATGAGATGAAGGACCCACCAATGGCTACTAACAGTGGTGGCCATGAAGACC
 GCCCGTCTTCAGGGCAGTGCTCTATGCTGACTACCGTGGCCCTGGCCCTGCCCGCTTCGACGGCCGCC
 CTCATCCCGTCTCTCCCACTCCAGCGGCTATGCCAGCTCAACACCTATAGCCGGGGCCCTGCCTCTGAC
 TATGGCCCTGAGCCACACCCCTGGCCCTGCTGCCCCAGCTGGCACTGACACAACCAGCCAGCTGTCCT
 ACGAGAACTATGAGAAGTTCAACTCCCATCCCTTCCCTGGGGCAGCTGGGTACCCACCTACCGACTGGG
 CTACCCCAAGGCCACCCCTCTGGCCTGGAGCGGACCCATATGAGGCGTATGACCCATTGGCAAGTAC
 GCCACAGCCACTCGATTCTCTACACCTCCAGCACTCGGACTACGGCCAGCGATTCCAGCAGCGCATGC
 AGACTCACGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

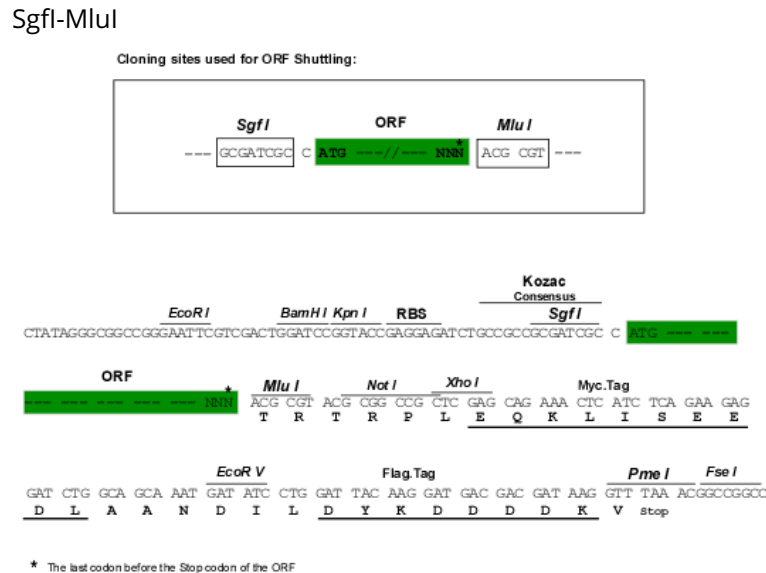
Protein Sequence: >RC239233 representing NM_001286349
 Red=Cloning site Green=Tags(s)

MLSLLVWILTLSDTFSQVPPEDTRIDGGPVILLQAGTPHNLTCRAFNAPAAIIWFRDGTQQEGAVAST
 ELLKDGKRETTVSQLLINPTDLIDGRVFTCRSMNEAIPSGKETSIELDVHHPPTVTLSEIPQTVQEGERV
 VFTCQATANPEILGYRWAKGGFLIEDAHESRYETNVDSFFTEPVSCVHNKVGSTNVSTLVNVHFAPRI
 VVDPKPTTTDIGSDVTLTCVWVGNPPLTLTWTKKDSNMVLSNSNQLLLKSVTQADAGTYTCRAIVPRIGV
 AEREVPLYVNGPPIISSEAVQYAVRGDGGKVECFIGSTPPPDRIAWAWKENFLEVGTLEERTYVERTNSGS
 GVLSTLTINNMEADFQTHYNCTAWNSFGPTAIQLEEREVLPGVIAAGATIGASILLIFFFIALVFFL
 YRRRKGSRKDVTLRKLDIKVETVNREPLTMHSDREDDTASVSTATRVMKAIYSSFKDDVDLQDLRCDTI
 DTREEYEMKDPTNGYYNVRAHEDRPSSRAVLADYRAPGPARFDGRPSSRLSHSSGYAQLNTYSRGPASD
 YGPEPTPPGPAAPAGTDTSQLSYENYEKFNSHPFPGAAGYPTYRLGYPQAPPSGLERTPYEAYDPIGKY
 ATATRFSTYSQHSYDYGQRFQQRMQTHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:



ACCN: NM_001286349

ORF Size: 1971 bp

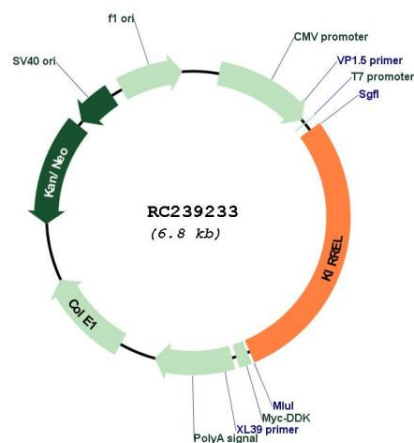
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001286349.1, NP_001273278.1</u>
RefSeq Size:	7526 bp
RefSeq ORF:	1974 bp
Locus ID:	55243
UniProt ID:	<u>Q96J84</u>
Cytogenetics:	1q23.1
Protein Families:	Transmembrane
MW:	73.2 kDa
Gene Summary:	NEPH1 is a member of the nephrin-like protein family, which includes NEPH2 (MIM 607761) and NEPH3 (MIM 607762). The cytoplasmic domains of these proteins interact with the C terminus of podocin (NPHS2; MIM 604766), and the genes are expressed in kidney podocytes, cells involved in ensuring size- and charge-selective ultrafiltration (Sellin et al., 2003 [PubMed 12424224]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC239233