

Product datasheet for **RC239524**

KIRREL 3 (KIRREL3) (NM_001301097) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIRREL 3 (KIRREL3) (NM_001301097) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIRREL3
Synonyms:	KIRRE; MRD4; NEPH2; PRO4502
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Protein Sequence: >RC239524 representing NM_001301097
 Red=Cloning site Green=Tags(s)

MKPFQLDLLFVCFLLFSQELGLQKRGCCVLGYMAKDKFRMNEGQVYSFSQQPQDQVVVSGQPVTLLCA
 IPEYDGFVLWIKDGLALGVGRDLSSYPQYL VVGNHLSGEHHLKILRAELQDDAVYECQAIQAAIRSRPAR
 LTVLVPPDDPVILGGPVISLRAGDPLNL TCHADNAKPAASIIWLRKGEVINGATYSKTLRLDGGKRESIVS
 TLFISPQDVENGQSI VCRATNKAIPGGKETSVT IDIQHPPLVNL SVEPQPVLEDNVVTFHCSAKANPAVT
 QYRWAKRGQIIKEASGEVYRTTVDYTYFSEPVSCVETNALGSTNLSRTVDVYFGPRMTTEPQSLLDLGS
 DAIFSCAWTGNPSLTI VWMKRGSGVVL SNEKTL TLKSVRQEDAGKYVCRAVVPVPRV GAGEREVT LTVNGPP
 IISSTQTQHALHGEKGQIKCFIRSTPPPDRIAWSKENVLESGTSGRYTVETISTEEGVISTLTISNIVR
 ADFQTIYNCTAWNSFGSDTEIIRLKEQESVPMAVIIGVAVGAGVAFVLV MATIVAFCCARSQRNLKGVVS
 AKNDIRVEIVHKEPASGREGEEHSTIKQLMMDRGEFQQDSVLKQLEVLKEEKEFQNLKDPTNGYYSVNT
 FKEHHSTPTISLSSCQPDLRPAGKQRVPTGMSFTNIYSTLSGQGRLYDYGQRFVLGMGSSSIELCEREFQ
 RGLSDSSSFLDTQCDSVSSSGKQDGYVQFDKASKASASSSHHSQSSSQNSDPSRPLQRRMQTHV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

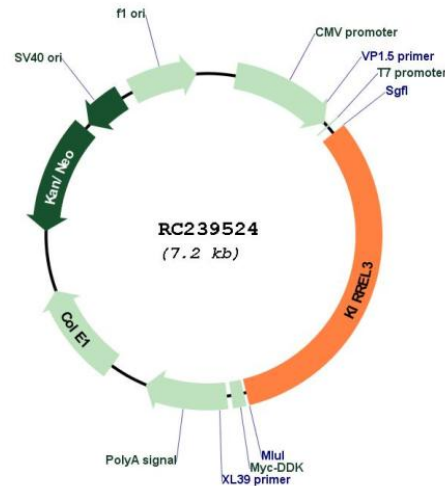
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001301097

ORF Size: 2298 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: [NM_001301097.1](#), [NP_001288026.1](#)

RefSeq Size: 3758 bp

RefSeq ORF: 2301 bp

Locus ID: 84623

Cytogenetics: 11q24.2

Protein Families: Transmembrane

MW: 84.6 kDa

Gene Summary: The protein encoded by this gene is a member of the nephrin-like protein family. These proteins are expressed in fetal and adult brain, and also in podocytes of kidney glomeruli. The cytoplasmic domains of these proteins interact with the C-terminus of podocin, also expressed in the podocytes, cells involved in ensuring size- and charge-selective ultrafiltration. The protein encoded by this gene is a synaptic cell adhesion molecule with multiple extracellular immunoglobulin-like domains and a cytoplasmic PDZ domain-binding motif. Mutations in this gene are associated with several neurological and cognitive disorders. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]