

Product datasheet for **RG239524**

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:	TurboGFP
Symbol:	KIRREL 3
Synonyms:	KIRRE; MRD4; NEPH2; PRO4502
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239524 representing NM_001301097.
 Blue=ORF Red=Cloning site Green=Tag(s)

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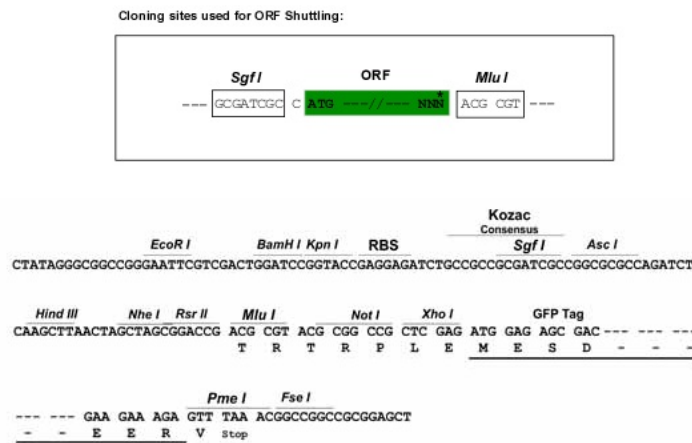
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CGGCGGATGCAGACTCACGTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239524
 Blue=ORF Red=Cloning site Green=Tag(s)

MKPFQLDLLFVCFLLFSQELGLQKRGCCVLGYMAKDKFRMNEGQVYSFSQQPQDQVVVSGQPVTLLC
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 IVSTLFI SPGDVENGQSI VCRATNKAIPGGKETSVTIDIQHPPLVNL SVEPQPVL EDNVVTFHCSAKAN
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301097

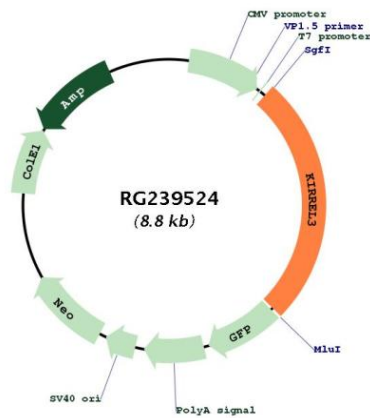
ORF Size: 2298 bp

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).
RefSeq:	<u>NM_001301097.1, NP_001288026.1</u>
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]

Product images:



Circular map for RG239524