

Product datasheet for **RG211025**

KIRREL 3 (KIRREL3) (NM_032531) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIRREL 3 (KIRREL3) (NM_032531) 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:

>RG211025 representing NM_032531
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**

ATGTAACCCCTCCAGCTCGATCTGCTCTTCTGCTGCTTCTTCTCTTTCAGTCAAGAGCTGGGCCTCCAGA
AGAGAGGATGCTGTCTGGTGCTGGGCTACATGGCCAAGGACAAGTTTCGGAGAATGAATGAAGGCCAAGT
CTATTCTTTCAGCCAGCAGCCCCAGGACCAGGTGGTGGTGTGCGGACAGCCAGTGACGCTACTTTGCGCC
ATCCCCGAATACGATGGCTTCGTTCTGTGGATCAAGGACGGCTTGGCTCTGGGTGTGGGCAGGGACCTCT
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AGAGGTCATCAATGGGGCCACCTACTCCAAGACCTGCTTCGGGACGGCAAGCGGGAGAGCATCGTCAG
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TCCCCGGAGGAAAGGAGACGTCGGTCACCATTGACATCCAGCACCTCCACTGGTCAACCTCTCGGTGGA
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CAGTACAGGTGGGCCAAGCGGGGCCAGATCATCAAGGAGGCATCTGGAGAGGTGTACAGGACCACAGTGG
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CAGGGTTGACGCTCACTTTGGGCCCGGATGACCACAGAACCCCAATCCTTGTCTGGTGGATCTGGGCTCT
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CTATACGGTGGAGACCATCAGCACCGAGGAGGGCGTCATCTCCACCCTGACCATCAGCAACATCGTGCG
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ACACGCAAGTGTGACAGAGCGTCAGCAGCAGCGGCAAGCAGGATGGCTATGTGCAGTTCGACAAGGCCAG
CAAGGCTTCTGCTTCTCTCTCCACCACTCCAGTCTCTGTCAGCAACTCTGACCCAGTCGACCCCTG
CAGCGGCGGATGCAGACTCAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

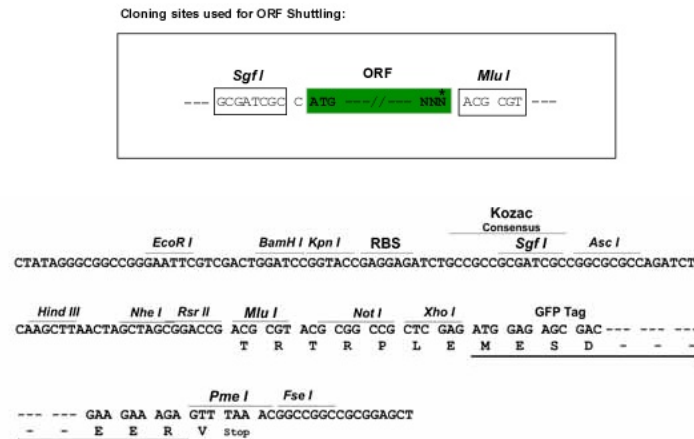
Protein Sequence: >RG211025 representing NM_032531
 Red=Cloning site Green=Tags(s)

MKPFQLDLLFVCFLLFSQELGLQKRGCLVLGYMAKDKFRMNEGQVYSFSQQPQDQVVVSGQPVTLLCA
 IPEYDGFVLWIKDGLALGVGRDLSSYPQYL VVGNHLSGEHHLKILRAELQDDAVYECQAIQAAIRSRPAR
 LTVLVPPDDPVILGGPVISLRAGDPLNL TCHADNAKPAASIIWLKGEVINGATYSKTLRLDGKRESIVS
 TLFISPGDVENGQSIVCRAFNKAIPGGKETSVDI IQHPPLVNL SVEPQPVLEDNVVTFHCSAKANPAVT
 QYRWAKRGQIIKEASGEVYRTTVDYTYFSEPVSCVTNALGSTNLSRTVDVYFGPRMTTEPQSLLVDLGS
 DAIFSCAWTGNPSLTI VWMKRGSGVVL SNEKTLTKSVRQEDAGKYVCRAVVP RVGAGEREVTLT VNGPP
 IISSTQTQHALHGEKGQIKCFIRSTPPPDRIASWKENVLESGTSGRYTVETISTEEGVISTLTISNIVR
 ADFQTIYNCTAWNSFGSDTEIIRLKEQGSEMKSGAGLEAESVPMAVIIGVAVGAGVAFVL MATIVAFCC
 ARSQRNLKGVSAKNDIRVEIVHKEPASGREGEHSTIKQLMMDRGEFQQDSVLKQLEVLKEEKEFQNL
 KDPTNGYYSVNTFKEHHSTPTISLSSCQPDLPAGKQRVPTGMSFTNIYSTLSGQGRLYDYGQRFVLGMG
 SSSIELCEREFQRGSLSDSSSFLDTQCDSVSSSGKQDGYVQFDKASKASASSSHHSQSSSQNSDPSRPL
 QRRMQTHV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032531

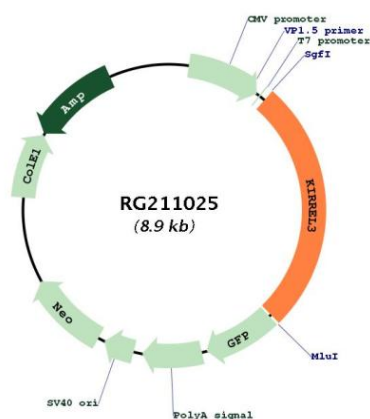
ORF Size: 2334 bp

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_032531.4</u>
RefSeq Size:	2495 bp
RefSeq ORF:	2337 bp
Locus ID:	84623
UniProt ID:	<u>Q8IZU9</u>
Cytogenetics:	11q24.2
Protein Families:	Transmembrane
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 RG211025