

Product datasheet for **SC100705**

KIRREL 3 (KIRREL3) (NM_032531) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIRREL 3 (KIRREL3) (NM_032531) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIRREL 3
Synonyms:	KIRRE; MRD4; NEPH2; PRO4502
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032531 unedited AGAATTTTGTAAATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGTGGGGACAT TGCTGACAATCCCGGCTTCCCGAGGCGGCTAAGAACACGCAGTTTGTGTCGGCTGGCTGC AGATACCCAGAGGCACAAAGAGACCGAAGCCACCCGGAGGGACCCACGGACGGACAGATG GTAGGCGGAACCCGAGAGGACCGGCGGAGGCTGAGCACCGAGAGCCCAAGGAAGAGA AACTAACACAGCCAAGTTACCCCGCGGCTTTCCTTCGCTGCGCTAAGGAATGAAACCC TTCCAGCTCGATCTGCTCTTCGCTGCTTCTTCCTCTTCAGTCAAGAGCTGGGCCTCCAG AAGAGAGGATGCTGTCTGGTGTGGGCTACATGGCCAAGGACAAGTTTCGGAGAATGAAT GAAGGCCAAGTCTATTCCTTCAGCCAGCAGCCCCAGGACCAGGTGGTNGGTGTCGGGACA GCCAGTGACGCTACTTTGCGCCATCCCCGAATACGATGGCTTCGTTCTGTGGATCAAGGA CGGCTTGCTCTGGGTGTGGGACGGACCTCTCAAGTTACCCACAGTACCTGGTGGTAGG GAACCACCTGTCAGGGGAGCACCACTGAAATCCTGAGGGCAGAGCTGCAGACGATGCGG TGTACGAGTGCCAGGCCATTGAGCCGNCATTGCTCCCGCCGACGCCTTAAGTCTG GGTGCCGCTGATACCCGTATCTGGGGGGCCTTGATAGCCTGGTGGGGGGGACCTT TTAANCTNACCTGCCAGCAGACATGGCCAGCTGCAGCTCATATTTGTTGGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_032531
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_032531.1 , NP_115920.1
RefSeq Size:	3794 bp
RefSeq ORF:	2337 bp
Locus ID:	84623
UniProt ID:	Q8IZU9
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]

Transcript Variant: This variant (1) encodes the longer isoform (1).