

Product datasheet for **SC327120**

KIRREL 3 (KIRREL3) (NM_001161707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIRREL 3 (KIRREL3) (NM_001161707) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIRREL3
Synonyms:	KIRRE; MRD4; NEPH2; PRO4502
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

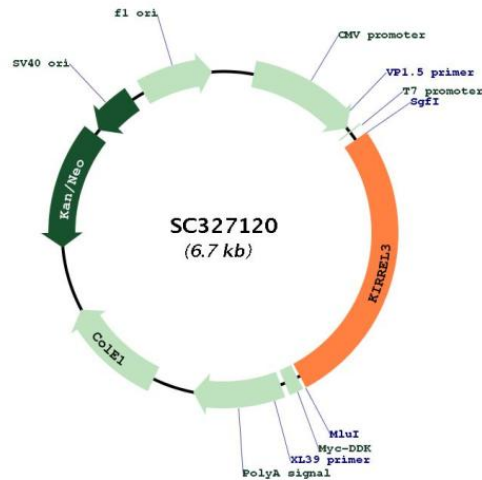


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Fully Sequenced ORF: >SC327120 representing NM_001161707.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
 ATGAAACCCCTCCAGCTCGATCTGCTCTTCGTCTGCTTCTTCTCTTCAGTCAAGAGCTGGGCCTCCAG
 AAGAGAGGATGCTGTCTGGTGTGGCTACATGGCCAAGGACAAGTTTCGGAGAATGAATGAAGGCCAA
 GTCTATTCTTCAGCCAGCAGCCCAGGACCAGGTGGTGGTGTCTGGGACAGCCAGTGACGCTACTTTGC
 GCCATCCCCGAATACGATGGCTTCTGTGGATCAAGGACGGCTTGGCTCTGGGTGTGGGCAGGGAC
 CTCTCAAGTTACCCACAGTACCTGGTGGTAGGGAACACCTGTCAGGGGAGCACCACCTGAAGATCTCG
 AGGGCAGAGCTGCAAGACGATGCGGTGTACGAGTGCCAGGCCATCCAGGCCGCCATCCGCTCCCGCCCC
 GCACGCCTCACAGTCTGGTGCCGCTGATGACCCGTCATCCTGGGGGGCCCTGTGATCAGCCTGCGT
 GCGGGGGACCCTCTCAACCTCACCTGCCACGCAGACAATGCCAAGCCTGCAGCCTCCATCATCTGGTTG
 CGAAAGGGAGAGGTCATCAATGGGGCCACTACTCCAAGACCCTGCTTCGGGACGGCAAGCGGGAGAGC
 ATCGTCAGCACCCCTTTCATCTCCCTGGTGACGTGGAGAATGGCCAGAGCATCGTGTGTGTGCCACC
 AACAAAGCCATCCCGGAGGAAAAGGAGAGCTCGGTCAACATTGACATCCAGCACCCCTCCACTGGTCAAC
 CTCTCGGTGGAGCCACAGCCAGTCTGGAGGACAACGTGCTCACTTTCCACTGCTCTGCAAGGCCAAC
 CCAGCTGTCAACAGTACAGGTGGGCCAAGCGGGCCAGATCATCAAGGAGGCATCTGGAGAGGTGTAC
 AGGACCACAGTGGACTACACGTAATTTCTCAGAGCCCGTCTCCTGTGAGGTGACCAACGCCCTGGGCAGC
 ACCAACCTCAGCCGCACGGTTGACGTCTACTTTGGGCCCGGATGACCACAGAACCCCAATCCTTGCTC
 GTGGATCTGGGCTCTGATGCCATCTTCAGCTGCGCCTGGACCAGCAACCCATCCCTGACCATCGTCTGG
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 GACGCGGGCAAGTACGTGTGCCGGCTGTGGTGGCCCGTGTGGGAGCCGGGAGAGAGAGGTGACCCTG
 ACCGTCAATGGACCCCCATCATCTCAGCACCCAGACCAGCACGCCCTCCACGGCGAGAAGGGCCAG
 ATCAAGTGCTTTCATCCGGAGCACGCCGCCCGGACCGCATCGCCTGGTCTGGAAGGAGAACGTTCTG
 GAGTCGGGCACATCGGGGCGCTATACGGTGGAGACCATCAGCACCGAGGAGGGCGTCATCTCCACCTG
 ACCATCAGCAACATCGTGGGGCCGACTTCCAGACCATCTACAACGACGGCCTGGAACAGCTTCGGC
 TCCGACACTGAGATCATCCGGCTCAAGGAGCAAGGTTCCGAAATGAAGTCGGGAGCCGGGCTGGAAGCA
 GAGTCTGTCCGATGGCCGTCATCATTGGGGTGGCCGTAGGAGCTGGTGTGGCCTTCTCGTCTTATG
 GCAACCATCGTGGCCTTCTGCTGTGCCGTTCCAGAGAAGTACGGGAGGGAGATCCGGGATCTCAGGG
 AGGGGGACAGAGAAAAGGCCAGGCTTAGGCTGCCCGGAGAGCAAGTAAGCAGGAGTGAATGAACAG
 GGGTCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001161707

Insert Size: 1803 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001161707.1](#)

RefSeq Size: 2536 bp

RefSeq ORF: 1803 bp

Locus ID: 84623

UniProt ID: [Q8IZU9](#)

Cytogenetics: 11q24.2

Protein Families: Transmembrane

MW: 65.3 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]

Transcript Variant: This variant (2) includes an alternate segment at the 3' end compared to variant 1. This results in a frame-shift, and a shorter isoform (2) with a distinct C-terminus compared to isoform 1.