

## Product datasheet for **SC312460**

### KIRREL (AK090554) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIRREL (AK090554) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIRREL
Synonyms:	NEPH1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AK090554, the custom clone sequence may differ by one or more nucleotides ATGGGTGAGGGGACCTGGAGAGGTAAGGGGCTGGAAATGGCCCTGACAGAGAACTTGTG CTGACCGGGAGAAGTGGTGC GGAAGGGCACCGCAGGCATTACACAGGCCATTTCTCCTC CTCCATGTGCACGCACATCCAACACACACCTTCCATGTGACTGCTTCTCAGCCACCACTT TCTGACCAAAGAGAACAGGCGCTCCAAGGAGAACCTGTACCCCTGCCCCAGCCTCGCCTT CCTAAAAAGCAGTGTCTGGAGTTGGCTGTTTCCCGCTCCCCAGTCGATGTCCAGCCCA GTGGGAGACAGGGCCTCTGGTGCAGTTCCCAAAATGTTCTCGCCCTTTCTCCATGGTCA CCATTCATAATTCATGTTTCGCTTAATGAGTTACATGCTTATCAGCCACAGGCCATTACC ACCCTTATGGATGGGTCTGGGGGCGACATTCTGGCCAACCCCTTGTAGGAAGGACCAG ATAATACCCAGGAAGCAAGTAGCTCTAATTTAACTTCACAGGAAGTCTGTGCATCCTCC TTCATTTACAGCAGGAAAACCTCTGTGGAGTGGGCCCTATCTGGGGCATTACAGGCTTC CAGCTGTATTCCATCCCTGGAAGC
Restriction Sites:	Please inquire
ACCN:	AK090554
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).



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**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:** [AK090554.1](#), [BAC03476.1](#)

**RefSeq Size:** 2838 bp

**RefSeq ORF:** 2838 bp

**Locus ID:** 55243

**Cytogenetics:** 1q23.1

**Protein Families:** Transmembrane

**Gene Summary:** NEPH1 is a member of the nephrin-like protein family, which includes NEPH2 (MIM 607761) and NEPH3 (MIM 607762). The cytoplasmic domains of these proteins interact with the C terminus of podocin (NPHS2; MIM 604766), and the genes are expressed in kidney podocytes, cells involved in ensuring size- and charge-selective ultrafiltration (Sellin et al., 2003 [PubMed 12424224]).[supplied by OMIM, Mar 2008]