OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC315460

Nephrin (NPHS1) (NM_004646) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nephrin (NPHS1) (NM_004646) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nephrin
Synonyms:	CNF; nephrin; NPHN
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_004646 edited
GCCACCATGGCCCTGGGGACGACGCTCAGGGCTTCTCTCCTGCTCCTGGGGCTGCTGACT
GAAGGCCTGGCGCAGTTGGCGATTCCTGCCTCCGTTCCCCGGGGCTTCTGGGCCCTGCCT
GAAAACCTGACGGTGGTGGAGGGGGCCTCAGTGGAGCTGCGTTGTGGGGTCAGCACCCCT
GGCAGTGCGGTGCAATGGGCCAAAGATGGGCTGCTCCTGGGCCCCGACCCCAGGATCCCA
GGCTTCCCGAGGTACCGCCTGGAAGGGGACCCTGCTAGAGGTGAATTCCACCTGCACATC
GAGGCCTGTGACCTCAGCGATGACGCGGAGTATGAGTGCCAGGTCGGCCGCTCTGAGATG
GGGCCCGAGCTCGTGTCTCCCAGAGTGATCCTCTCCATCCTGGTTCCTCCCAAGCTGCTC
CTGCTGACCCCAGAGGCAGGCACCATGGTCACCTGGGTAGCTGGGCAGGAGTACGTGGTC
AACTGTGTGTCTGGGGACGCGAAGCCAGCACCTGACATCACCATTCTCCTGAGTGGACAG
ACAATATCTGACATCTCTGCAAACGTGAACGAGGGCTCCCAGCAGAAACTCTTCACTGTG
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GCGTCTAGCCCAGCACTGGAGGCCCCCATCAAGGCCTCATTCACCGTGAATGTTCTGTTC
CCTCCAGGACCCCCTGTCATCGAGTGGCCAGGCCTGGATGAGGGGCACGTGCGGGCAGGA
CAGAGCTTGGAGCTGCCGTGCGTGGCCCGAGGGGGTAATCCCTTAGCCACACTGCAGTGG
CTGAAGAATGGCCAGCCGGTGTCCACAGCGTGGGGCACAGAGCACACCCAGGCGGTGGCC
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GCCCACAACAGCGTGTCTGCAGGGACCCAGGAGCACGGCATCACACTGCAGGTCACCTTT
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CTCGGCAGCGTGGAGAAATCTGGGAGCACCTTCTCCCGAGAGCTGGTGCTGGTCACAGGG
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CCGTCGGACAACCAGGCCAAGTTCACGTGCAAGGCTGGACAGCTCAGCGCGTCCACGCAG
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CCGGGGAGACGCCTTAAACTTGACATGCGTCAGCGTCAGCAGCAATCCGCCGGTCAACTTG
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CACCAGCCTTCTGGAGAACCTGAAGACCAGCTGCCCACAGAGCCACCTTCAGGACCCTCG
GGGCTGCCCCTGCTGCCTGTGCTGTTCGCTCTTGGGGGGCTTCTGCTCCTCTCCAATGCC
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TCCCGAGGTTTCACAGGTGAAGATGAGGATATGGCCTTCCCTGGGCACTTGTATGATGAG
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GGACCCTGGGACCTCCACTGGCCTGAAGACACATATCAGGATCCAAGAGGAATCTATGAC
CAGGTGGCCGGAGACTTGGACACTCTGGAACCCGATTCTCTGCCCTTCGAGCTGAGGGGA
CATCTGGTGTAA

Restriction Sites: Please inquire

ACCN: NM_004646

Insert Size: 3800 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 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_004646.1, NP_004637.1
RefSeq Size:	4285 bp
RefSeq ORF:	3726 bp
Locus ID:	4868
UniProt ID:	O60500
Cytogenetics:	19q13.12
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. The slit diaphragm is thought to function as an ultrafilter to exclude albumin and other plasma macromolecules in the formation of urine. Mutations in this gene result in Finnish-type congenital nephrosis 1, characterized by severe proteinuria and loss of the slit diaphragm and foot processes.[provided by RefSeq, Oct 2009]