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Product datasheet for MC224090

Nphs1 (NM_019459) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nphs1 (NM_019459) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nphs1
Synonyms:	nephrin; NephrinB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224090 representing NM_019459 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGAGCTAAGGAAGCCACAGTCAGAGGCCCCGGGGCAAGCCCAGTGCACAGAACTTGCCACCTGATTC CCCTGCTGCTCGCGGGAATGCTGACCACAGGCCTGGCCCAGTCGCCAGTCCCCACCTCAGCACCTCGAGG CTTCTGGGCTCTATCTGAAAACCTGACTGTGGTGGAAGGGTCGACAGTTAAGCTGTGGTGTGGCGTCAGG GCCCCCGGCAGTGTGGTGCAGTGGGCTAAGGATGGGCTGCTTCTGGGTCCAAACCCTAAGATTCCAGGCT TCCCAAGGTACAGCCTGGAAGGAGACAGTGCTAAAGGTGAGTTCCACCTGCTTATTGAAGCCTGTGACCT CAGCGATGATGCGGAGTACGAGTGCCAAGTCGGCCGCTCCGAGTTGGGTCCCGAGCTCGTGTCTCCCAGC GTAATCCTCTCCATCCTAGTTTCCCCCAAGGTGCTTCAGTTAACCCCTGAGGCAGGAAGCACAGTTACCT GGGTAGCTGGACAGGAATATGTGGTCACCTGTGTGTCTGGGGATGCAAAGCCAGCACCTGACATCATCTT CATCCAGGGTGGACGCACGGTAGAGGATGTCTCCTCCAGCGTGAATGAGGGATCAGAGGAGAAACTCTTC TTCACGGAAGCCGAAGCCAGGGTGACACCCCAGAGCTCAGATAATGGGCAGCTGCTAGTCTGCGAGGGGT CCAACCCAGCCTTGGCCACTCCCATAAAGGCTTCGTTCACCATGAATATCCTGTTCCCCCCAGGACCTCC TGTCATTGATTGGCCAGGCCTGAATGAGGGGCATGTACGGGCAGGGGAGAACCTGGAGCTACCCTGCATA GCCAGAGGTGGAAATCCACCTGCGACCCTGCAGTGGCTGAAGAATGGTAAACCAGTGTCCATAGCTTGGG GCACAGAGCATGCCCAGGCAGTGGCTCACAGTGTGCTGGTGATGACCGTTCGACCTGAAGACCACGGAGC TCGGCTCAGCTGTCAGTCCTACAACAGTGTGTCTGCAGAGACCCAGGAGCGAAGCATCACTCTGCAGGTC ACCTTTCCCCCCAGTGCCGTTACCATCCTGGGATCTACATCACAGTCTGAGAACAAAAATGTGACCCTTT GCTGCCTTACCAAGTCCAGTCGCCCACGGGTCCTGCTGCGATGGTGGTTGGGTGGACGGCAGTTGCTGCC CACGGATGAGACAGTCATGGATGGCCTGCATGGTGGCCACATCTCCATGTCCAATCTGACACTCTTGGTG AAGAGAGAAGACAATGGCCTGTCCCTCACCTGCGAAGCCTTCAGTGATGCCTTCAGCAAGGAGACCTTCA AGAAGTCACTCACCTTGAATGTAAAATACCCGGCCCAGAAGCTGTGGATTGAGGGACCCCCAGAGGGGCA GAGCATCCGGACTGGAACTCGGGTGAGGCTGGTATGCTTGGCCATTGGAGGCAACCCAGAGCCCTCCCTC ACCTGGCTTAAGGATTCGCGCCCGGTGAACGATCCTCGGCAGTCTCAGGAGCCCCGGCGTGTGCAGCTGG

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GCAGTGTGGAGAAGTCCGGCAGCACTTTCTCCCGCGAGCTGGTGCTGATCATAGGCCCGCCGGACAACCT
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TATGACGAGGTGGAGAGAGTCTATGGCCCACCTGGGGTCTGGGGACCCCTCTATGATGAAGTACAAATGG
ACCCCTATGACCTTCGCTGGCCTGAGGTCAAATATGAGGACCCAAGGGGAATCTACGACCAGGTGGCGGC
AGACATGGATGCTGGGGAGCCTGGTTCTCTGCCCTTTGAGCTGAGGGGACATCTGGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_019459

Insert Size: 3771 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

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_019459.2, NP_062332.2

RefSeq Size: 5661 bp

RefSeq ORF: 3771 bp

Locus ID: 54631

UniProt ID: Q9QZS7

Cytogenetics: 7 B1

Gene Summary: Seems to play a role in the development or function of the kidney glomerular filtration barrier. Regulates glomerular vascular permeability. May anchor the podocyte slit diaphragm to the actin cytoskeleton. Plays a role in skeletal muscle formation through regulation of myoblast fusion.[UniProtKB/Swiss-Prot Function]