

## Product datasheet for **SC337670**

### Nephrocystin 4 (NPHP4) (NM\_001291594) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nephrocystin 4 (NPHP4) (NM_001291594) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPHP4
Synonyms:	POC10; SLSN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001291594, the custom clone sequence may differ by one or more nucleotides

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ATGACCCACGGAGCCTGTCACTGGCCCCAAAGTGGAGCGGGCCCTCCAGGAAACCACCCACGTCCC
TTCGACAGGAGTTCCTGTTGGAGGCGGTATCTCCACCTGGAAGCCGACCTGAGCCAGACCTCCCTGGT
CCTGGAACATCCATTGCCGAACAGTTACAGGAGCTGCCGTTACGCCTTTGCATGCCCCATTGTTGTG
GGAACCCAGACCAGGAGCTCTGCAGGGCAGCCCTCGAGAGCCTCCATGGTCTCCTGCAGTCTCCGGCT
TTCCCGAGATTCTGGATGCCAATAAACAGCCAGCCGAGGCTGTACAGCGCTACAGAACCTGTGACGTTTAA
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TACATGGTGGGCCCTGGTTTCTGAAGCCAGGTGAGCGGCGCTGCTTTGCCCGCTACCTGGCCGTGCAGA
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AGGACCCCCAGTCCATGTTTCGCTGCAGCGACCCGAACGTTCATCTGTGAGACCCAGAATGTGGGCCCGG
GGAACCACGGGACATATTTCTGAAGGTGGCCAGTGGTCCAAGCCCGGAGATCAAAGACTTCTTTGTCATC
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GAAAGTGAAGCTTTACCTCTCATCCCCAGGAGCTGAAGACAGACCCCAAGGTGTCTTCGTGCTGCCG
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CATCTCCAAGGCCTTTGAAGATCATGTTGGCTGCGGGCGAAGGGAAGGGTGTCAACAAGAGGATCACCTAC
ACCAACCCCTACCCCTCCCGGAGGACATTTCCACCTGCACAGCGACCCAGGAGTGTGCGGTTACAGAG
AGGACTCCTTCCAGTCCGGGGTGGAGAGACTACACCATCGGCTTGCAGTTTGCCTAGTCAGAGAGT
GGGTGAGGAGGATCCTGATCTACATCAATGACCATGAGGACAAAAACGAAGGCATTTTGCCTGAAG
GTCATCTACCAGTGA
    
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291594

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291594.1</a> , <a href="#">NP_001278523.1</a>
<b>RefSeq Size:</b>	4533 bp
<b>RefSeq ORF:</b>	2745 bp
<b>Locus ID:</b>	261734
<b>UniProt ID:</b>	<a href="#">O75161</a>
<b>Cytogenetics:</b>	1p36.31
<b>Gene Summary:</b>	<p>This gene encodes a protein involved in renal tubular development and function. This protein interacts with nephrocystin, and belongs to a multifunctional complex that is localized to actin- and microtubule-based structures. Mutations in this gene are associated with nephronophthisis type 4, a renal disease, and with Senior-Loken syndrome type 4, a combination of nephronophthisis and retinitis pigmentosa. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]</p> <p>Transcript Variant: This variant (3) lacks four exons in the 5' region, and initiates translation at an alternate downstream start codon, compared to variant 1. The encoded isoform (c) has a distinct N-terminus and is shorter than isoform 1.</p>