

Product datasheet for **SC310144**

Nephronophthisis (NPH1) (NM_000272) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Nephronophthisis
Synonyms:	JBTS4; NPH1; SLSN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>SC310144 representing NM_000272.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGGCGAGACGACGAGATCCTCTCCAGGCCCTGCGGCCCGCAATCAGGAGCTGAAGCAACAG
GTTGATAGTTTGTCTTCTGAGAGCCAACTGAAAGAAGCTCTAGAACCAATAAAAGACAACATATTTAT
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GATGAATCTGCACCTGTTGCAAACTATAATCAGAGAAAAGAAGAGGAGCATACTCTTTTGGACAAGCTT
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GAAGAGGAAGAGAAAGAGGAAAATGAATCTCACAAATGGTCAACCGGTGAAGAATACATCGCTGTTGGA
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TCTGCATCTCCAGATCTTGGAAATATTATTTGAAGTGGAAATTTCTTATATTCGCAATCAACTGGTGAA
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GATGTGATGGATGCTCTCAGGAGTTCGTGGGCTGGAAAAGAAAGCATTAAAAAGATCAGAGAAGAGA
GACAAAGAGTTCTGAAGTCCACGTTTCTCCTGGTTTACCATGACTGCGTGTCTCCACTTCTCCACTCC
ACACGCTACCCCCATTAGGTGGGAGAGAAAGAGACTGAGACTGCACGGTGGAAAGTTATCACTGAC
TTCCTTAAGCAAAACCAAGAAAACAGGGCGCCCTCCAAGCTCTGCTGTCAACAGACGGAGTTCATGAA
CCTTTTGACCTTTCAGAGCAGACCTATGACTTCTTGGGTGAAATGAGAAAGAATGCAGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGCG
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Restriction Sites:

SgfI-MluI

ACCN:

NM_000272

Insert Size:

2202 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000272.3
RefSeq Size:	2758 bp
RefSeq ORF:	2202 bp
Locus ID:	4867
UniProt ID:	O15259
Cytogenetics:	2q13
Domains:	SH3
Protein Families:	Druggable Genome
MW:	83.4 kDa
Gene Summary:	This gene encodes a protein with src homology domain 3 (SH3) patterns. This protein interacts with Crk-associated substrate, and it appears to function in the control of cell division, as well as in cell-cell and cell-matrix adhesion signaling, likely as part of a multifunctional complex localized in actin- and microtubule-based structures. Mutations in this gene cause familial juvenile nephronophthisis type 1, a kidney disorder involving both tubules and glomeruli. Defects in this gene are also associated with Senior-Loken syndrome type 1, also referred to as juvenile nephronophthisis with Leber amaurosis, which is characterized by kidney and eye disease, and with Joubert syndrome type 4, which is characterized by cerebellar ataxia, oculomotor apraxia, psychomotor delay and neonatal breathing abnormalities, sometimes including retinal dystrophy and renal disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).