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Product datasheet for RC229355

Nephronophthisis (NPHP1) (NM_207181) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nephronophthisis (NPHP1) (NM_207181) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nephronophthisis
Synonyms:	JBTS4; NPH1; SLSN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC229355 representing NM_207181
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGCGAGACGACAGCGAGATCCTCTCCAGGCCCTGCGGCGCCGCAATCAGGAGCTGAAGCAACAGG
TTGATAGTTTGCTTTCTGAGAGCCAACTGAAAGAAGCTCTAGAACCCAATAAAAGACAACATATTTATCA
AAGATGTATCCAGTTAAAGCAGGCAATAGATGAAAATAAAAATGCTCTTCAAAAATTAAGCAAAGCTGAT
GAATCTGCACCTGTTGCAAACTATAATCAGAGAAAAGAAGAGGAGCATACTCTTTTGGACAAGCTTACCC
AACAACTGCAGGGCCTTGCTGTGACAATAAGCAGAGAAAATATAACTGAAGTTGGGGCACCTACTGAAGA
AGAGGAAGAAAGTGAAAGTGAAGATAGTGAAGACAGTGGTGGGGAGGAAGAAGATGCAGAGGAGGAAGAG
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CAGCAGATGGAGCAGAAGTTAAGCAAAGAACTGATCCCCACTGGAGTGCTGTTCAGAAAGCGATTTCAGA
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GCTGGAAAAGAAAGCACATTAAAAAGATCAGAGAAGAGAGACAAAGAGTTCCTGAAGTCCACGTTTCTCC
TGGTTTACCATGACTGCGTGCTCCCACTTCTCCACTCCACACGCCTACCCCCATTCAGGTGGGCAGAAGA
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CTCCAAGCTCTGCTGTCACCAGACGGAGTTCATGAACCTTTTGACCTTTCAGAGCAGACCTATGACTTCT
TGGGTGAAATGAGAAAGAATGCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229355 representing NM_207181
Red=Cloning site Green=Tags(s)

MLARRQRDPLQALRRRNQELKQQVDSLLSESQLKEALEPNKRQHIYQRCIQLKQAIDENKNALQKLSKAD
ESAPVANYNQRKEEEHTLLDKLTQQLQGLAVTISRENITEVGAPTEEEEESESEDSEDSGGEEEDAEEEE
EEKEENESHKWSTGEEYIAVGDFTAQQVGDLTFKKGEILLVIEKKPDGWWIAKDAKGNEGLVPRTYLEPY
SEEEEGQESSEEGSEEDVEAVDETADGAEVKQRTDPHWSAVQKAISEAGIFCLVNHVSFCYLIVLMRNRM
ETVEDTNGSETGFRAWNVQSRGRIFLVSKPVLQINTVDVLTTMGAIPAGFRPSTLSQLLEEGNQFRANYF
LQPELMPSQLAFRDLMWDATEGTIRSRPSRISLILTLWSCKMIPLPGMSIQVLSRHVRLCLFDGNKVLSN
IHTVRATWQPKKPKTWTFSPQVTRILPCLLDGDCFIRSNSASPDLGILFELGISYIRNSTGERGELSCGW
VFLKLFDASGVPIPAKTYELFLNGGTPYEKGIEVDPSISRRAHGSVFYQIMTMRRQPQLLVKLRSLNRRS
RNVLSLLPETLIGNMCSIHLLIFYRQILGDVLLKDRMSLQSTDLISHPMLATFPMLLEQPDVMDALRSSW
AGKESTLKRSEKRDKEFLKSTFLLVYHDCVLPLLHSTRLPPFRWAEEETETARWKVITDFLKQNQENQGA
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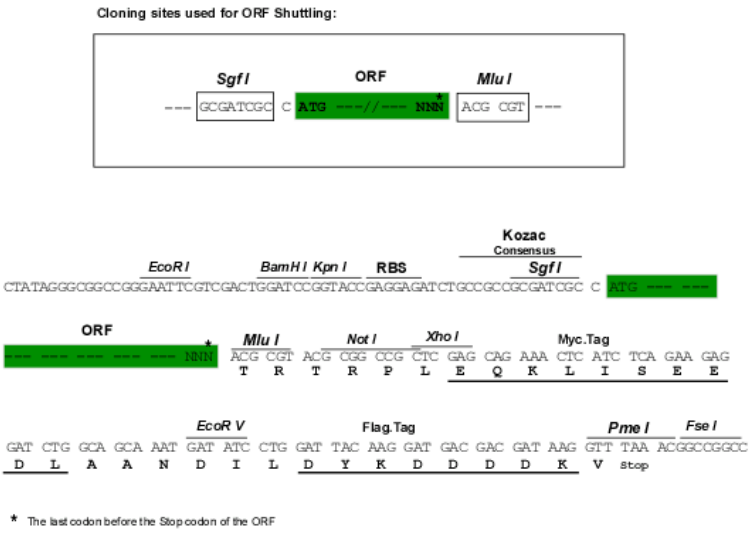
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207181

ORF Size: 2196 bp

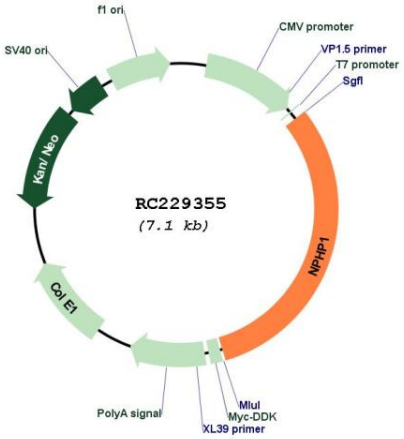
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_207181.4
RefSeq ORF:	2199 bp
Locus ID:	4867
UniProt ID:	O15259
Cytogenetics:	2q13
Protein Families:	Druggable Genome
MW:	83.1 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]

Product images:



Circular map for RC229355