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Product datasheet for SC304230

Nephrocystin 4 (NPHP4) (NM_015102) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nephrocystin 4 (NPHP4) (NM_015102) 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)

Fully Sequenced ORF:

>SC304230 representing NM_015102.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGACTGGCACAGGATCTTCACCCAAAACGTGCTTGTCCCTCCCCACCCACAGAGAGCGCGCCAG
CCTTGGAAGGAATCCACGGCATTCCAGTGTGTCCTCAAGTGGCTGGACGGACCGGTAATTAGGCAGGGC
GTGCTGGAGGTACTGTCAGAGGTTGAATGCCATCTGCGAGTGTCTTTCTTTGATGTCACCTACCGGCAC
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GGAGTGGACGGCAATGCAGCTTCGGTCACCTCTCTGTCCAACCTGGCATGCATGCACATGGTCCGCTGG
GCTGTTTGGAACCCCTTGCTGGAAGCTGATTCTGGAAGGGTGACCCTGCCTCTGCAGGGTGGGATCCAG
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GCGCCAGTACCTCGAGTTCTCGCTGCCCCGCAGAACTCACCTGTGGGACCAGGGTTGTCAATTTCCCAG

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CTGGCGGCCTCCCCGCGGTCCCCGACTCAGCACTGCTTGGCCAGGCCTACTTCACAGCTACCCCATGGC
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ATCGGATCTGCTGCCGTCCAGATGAAGCATCTCCTCCGCCAAGGCCGGCCGGCTGTGCAGGCCTCCCAC
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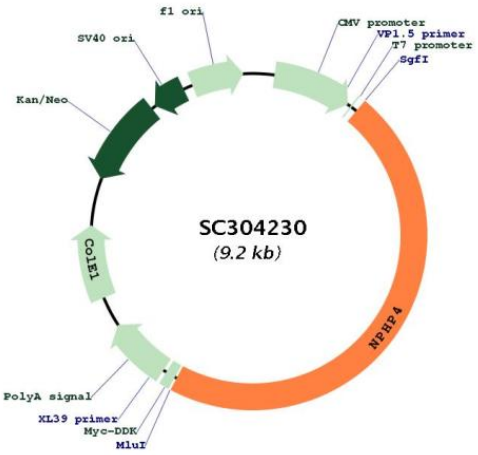
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_015102
Insert Size:	4281 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.
RefSeq:	NM_015102.4

RefSeq Size:	5020 bp
RefSeq ORF:	4281 bp
Locus ID:	261734
UniProt ID:	O75161
Cytogenetics:	1p36.31
MW:	157.6 kDa
Gene Summary:	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] Transcript Variant: This variant (1) encodes the longest isoform (a).