

Product datasheet for **RG218550**

PKHD1 (NM_138694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKHD1 (NM_138694) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PKHD1
Synonyms:	ARPKD; FCYT; FPC; PKD4; TIGM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218550 representing NM_138694 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGC**C

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AGCGGACCGACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218550 representing NM_138694
 Red=Cloning site Green=Tags(s)

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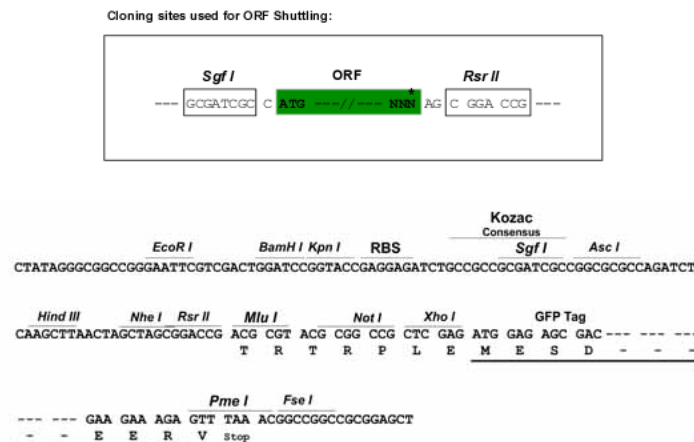
VSVTSGFVDVFSSVANIPCSTSGSVSTFYILPIRQITKVCFMDQTPQVLRFFLLGNKSTSKLLAVFY
HELQSPHVLGESFIPPTLVQSASLLLNESIGANYFNIMDNLLYVVLQGEPIEIRSGVSIHLALTMVS
VLEKGWEIVILERLTNLFQIGQNQIRFIHEMPGHEETLKAIADSRKRKRNCPTVTCTSHYRRVGQRRPL
MMEMNSHRASPMTVETISKVIVIEIGDSPTVRSTGMISSLSSNKLQNLHRVITAQQTGVLENLNMTI
GALLVTQSKGVIGYNTSSFKTGNLIYIRPYALSILVQPSDGEVGNELPVQQLVFLDEQNRRVESLGPP
SEPWTISASLEGASDSVLKGCTQAETQDGYVSFYNLAVLISGSNWHFIFTVTSPPGVNFRTARSKPFAVLP
VTRKEKSTIIAASLSSVASWLALSCLVCCWLKRSKSRKTKPEEIPESQTNQNIHIISSKRRESQGP
KEDTVVGEDMRMKVMLGKVNQCPLMNGVSRKVSRIHIVREEEAAPAGTTGITSHGHICAPGAPAQ
VYLQETGNWKEGQEQLLRYQLAGQNQLLLCPDFRQERQQLPGQSRLSKQSGSLGLSKEKKASC
GATEAFCLHSHVPETIQEQL

SGPTRRRLRLE – GFP Tag – V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_138694

ORF Size:

12222 bp

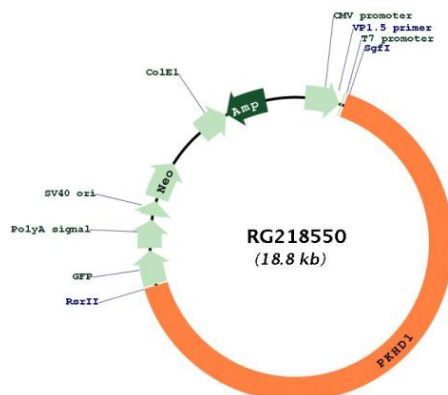
OTI Disclaimer:

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](#)

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_138694.2 , NP_619639.2
RefSeq Size:	16235 bp
RefSeq ORF:	12225 bp
Locus ID:	5314
UniProt ID:	P08F94
Cytogenetics:	6p12.3-p12.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is predicted to have a single transmembrane (TM)-spanning domain and multiple copies of an immunoglobulin-like plexin-transcription-factor domain. Alternative splicing results in two transcript variants encoding different isoforms. Other alternatively spliced transcripts have been described, but the full length sequences have not been determined. Several of these transcripts are predicted to encode truncated products which lack the TM and may be secreted. Mutations in this gene cause autosomal recessive polycystic kidney disease, also known as polycystic kidney and hepatic disease-1. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218550