

## Product datasheet for **RC216298**

### Polycystin 1 (PKD1) (NM\_000296) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Polycystin 1 (PKD1) (NM_000296) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKD1
Synonyms:	PBP; Pc-1; PC1; TRPP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216298 representing NM_000296 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

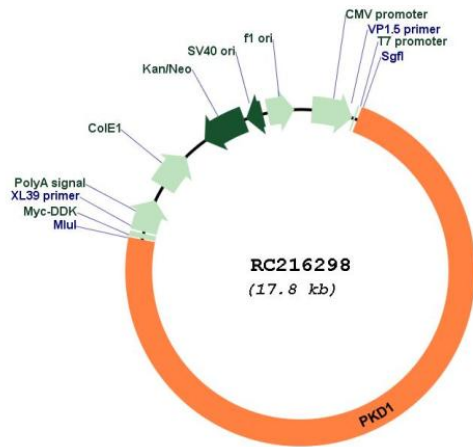
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Red=Cloning site Green=Tags(s)

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 HCEEFCVYKGSLSYGAVLPPGFRPHFEVGLAVVVQDQLGAAVVALNRSALITLPEPNSATGLTVWLHG  
 LTASVLPGLLRQADPQHVEYSLALVTVLNEYERALDVAEPAKHERQHRAQIRKNI TETLVSLRVHTVDD  
 IQQIAAALAQCMGPSRELVCRSCLKQTLHKLEAMMLILQAETTAGVTPTAIGDSILNITGDLIHLASSD



## Plasmid Map:



ACCN: NM\_000296

ORF Size: 12906 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](mailto: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.

<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>	<u><a href="#">NM_000296.3</a></u> , <u><a href="#">NP_000287.3</a></u>
<b>RefSeq Size:</b>	14135 bp
<b>RefSeq ORF:</b>	12909 bp
<b>Locus ID:</b>	5310
<b>UniProt ID:</b>	<u><a href="#">P98161</a></u>
<b>Cytogenetics:</b>	16p13.3
<b>Domains:</b>	GPS, LRRNT, LRRCT, PKD, PLAT, CLECT, LRR, REJ, WSC, LRR_TYP
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	462.4 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the polycystin protein family. The encoded glycoprotein contains a large N-terminal extracellular region, multiple transmembrane domains and a cytoplasmic C-tail. It is an integral membrane protein that functions as a regulator of calcium permeable cation channels and intracellular calcium homeostasis. It is also involved in cell-cell/matrix interactions and may modulate G-protein-coupled signal-transduction pathways. It plays a role in renal tubular development, and mutations in this gene cause autosomal dominant polycystic kidney disease type 1 (ADPKD1). ADPKD1 is characterized by the growth of fluid-filled cysts that replace normal renal tissue and result in end-stage renal failure. Splice variants encoding different isoforms have been noted for this gene. Also, six pseudogenes, closely linked in a known duplicated region on chromosome 16p, have been described. [provided by RefSeq, Oct 2008]</p>