

## Product datasheet for **RC207970**

### Pirh2 (RCHY1) (NM\_015436) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pirh2 (RCHY1) (NM_015436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pirh2
Synonyms:	ARNIP; CHIMP; PIRH2; PRO1996; RNF199; ZCHY; ZNF363
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207970 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGCGCCCGGAAGATGGCGCCAGCGGTCAAGAGCGAGGTCAGCGGGCTGCGAGCACTATG  
ACAGAGGATGTCTCCTAAAGGCACCTTGCTGTGACAAGCTTTATACTTGCCGCTTGTGTCATGATAACAA  
TGAAGATCACTCACTAGATCGCTTTAAAGTGAAGGAAGTGCAGTGCATAAACTGTAAAAAATCAACAT  
GCCAACAGACTTGTGAAGAATGTAGCACATTGTTGGAGAATATTATTGCGATATATGCCATTTGTTT  
ACAAAGATAAGAAGCAGTATCACTGTGAAAAGTGGAAATTTGTAGGATTGGTCCAAAGGAAGATTTTT  
CCATTGTTGAAATGTAACCTTATGCCTAGCTATGAATCTCAAGGAAGACACAAGTGTATTGAAAATGTG  
TCCAACAGAATTGTCCAATATGTTGGAGGACATTCACACATCCCGTGTGTTGCTCATGTCTTGCCAT  
GTGGACATCTTTTACATAGAACGTGTTATGAAGAAATGTTGAAAGAAGGCTACAGATGTCCATTATGTAT  
GCACTCTGCTTTAGATATGACCAGGATTGGAGACAGCTGGATGATGAAGTAGCACAGACTCCTATGCCA  
TCAGAATATCAGAACATGACTGTGGATTTCTCTGCAATGACTGTAATGGACGATCCACTGTTCAAGTTTC  
ATATATTAGGCATGAAATGTAAGATTTGTGAATCTATAATACTGCTCAAGCTGGAGGACGTAGAATTC  
ACTGGATCAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC207970 protein sequence  
Red=Cloning site Green=Tags(s)

MAATAREDGASGQERQGRGCEHYDRGCLLKAPCCDKLYTCRLCHDNNEDHQLDRFKVKEVQCINCEKIQH  
 AQTCEECSLTFGEYYCDICHLFDKDKKQYHCENCIGICRIGPKEDFFHCLKCNLCLAMNLQGRHKCIENV  
 SQQNCPICLEDIHTSRVVAHVLP CGHLLHRTCYEEMLEKEGYRCP LCMHSALDMTRYWRQLDDEVAQT PMP  
 SEYQNM TVDILCND CNGRSTVQFHILGMKCKICESYNTAQAGGRRISLDQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6126\\_g04.zip](https://cdn.origene.com/chromatograms/mk6126_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_015436

**ORF Size:** 783 bp

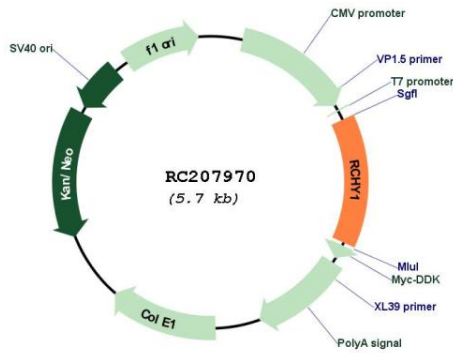
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

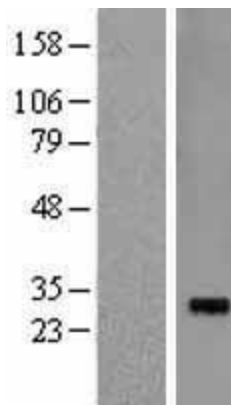
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_015436.3</a>
<b>RefSeq Size:</b>	4447 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	25898
<b>UniProt ID:</b>	<a href="#">Q96PM5</a>
<b>Cytogenetics:</b>	4q21.1
<b>Domains:</b>	RING
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	p53 signaling pathway, Ubiquitin mediated proteolysis
<b>MW:</b>	30.1 kDa
<b>Gene Summary:</b>	The protein encoded by this gene has ubiquitin ligase activity. It mediates E3-dependent ubiquitination and proteasomal degradation of target proteins, including tumor protein 53, histone deacetylase 1, and cyclin-dependent kinase inhibitor 1B, thus regulating their levels and cell cycle progression. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jun 2013]

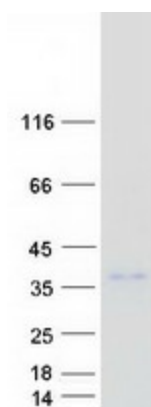
Product images:



Circular map for RC207970



Western blot validation of overexpression lysate (Cat# [LY402435]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207970 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RCHY1 protein (Cat# [TP307970]). The protein was produced from HEK293T cells transfected with RCHY1 cDNA clone (Cat# RC207970) using MegaTran 2.0 (Cat# [TT210002]).