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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:

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>RC207970 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGACGGCCCGGGAAGATGGCGCCAGCGGTCAAGAGCGAGGTCAGCGGGGCTGCGAGCACTATG
ACAGAGGATGTCTCCTAAAGGCACCTTGCTGTGACAAGCTTTATACTTGCCGCTTGTGTCATGATAACAA
TGAAGATCATCAACTAGATCGCTTTAAAGTGAAGGAAGTGCAGTGCATAAACTGTGAAAAAATTCAACAT
GCCCAACAGACTTGTGAAGAATGTAGCACATTGTTTGGAGAATATTATTGCGATATATGCCATTTGTTTG
ACAAAGATAAGAAGCAGTATCACTGTGAAAACTGTGGAATTTGTAGGATTGGTCCAAAGGAAGATTTTTT
CCATTGTTTGAAATGTAACTTATGCCTAGCTATGAATCTTCAAGGAAGACACAAGTGTATTGAAAATGTG
TCCCAACAGAATTGTCCAATATGTTTGGAGGACATTCACACATCCCGTGTTGTTGCTCATGTCTTGCCAT
GTGGACATCTTTTACATAGAACGTGTTATGAAGAAATGTTGAAAGAAGGCTACAGATGTCCATTATGTAT
GCACTCTGCTTTAGATATGACCAGGTATTGGAGACAGCTGGATGATGAAGTAGCACAGACTCCTATGCCA
TCAGAATATCAGAACATGACTGTGGATATTCTCTGCAATGACTGTAATGGACGATCCACTGTTCAGTTTC
ATATATTAGGCATGAAATGTAAGATTTGTGAATCCTATAATACTGCTCAAGCTGGAGGACGTAGAATTTC
ACTGGATCAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC207970 protein sequence
Red=Cloning site Green=Tags(s)

MAATAREDGASGQERGQRGCEHYDRGCLLKAPCCDKLYTCRLCHDNNEDHQLDRFKVKEVQCINCEKIQH
AQQTCEECSTLFGEYYCDICHLFDKDKKQYHCENCGICRIGPKEDFFHCLKCNLCLAMNLQGRHKCIENV
SQQNCPICLEDIHTSRVVAHVLPCGHLLHRTCYEEMLKEGYRCPLCMHSALDMTRYWRQLDDEVAQTPMP
SEYQNMTVDILCNDCNGRSTVQFHILGMKCKICESYNTAQAGGRRISLDQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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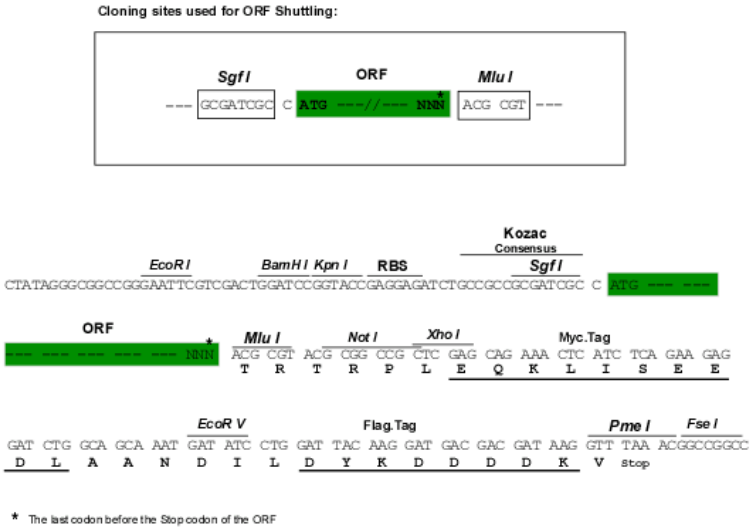
Chromatograms: https://cdn.origene.com/chromatograms/mk6126_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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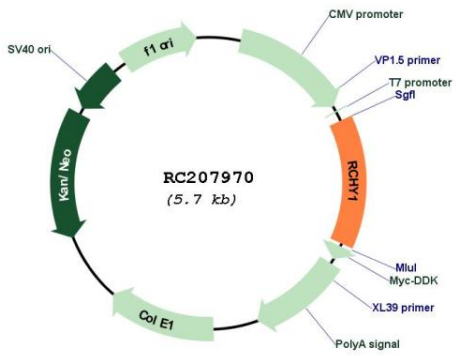
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_015436.3
RefSeq Size:	4447 bp
RefSeq ORF:	786 bp
Locus ID:	25898
UniProt ID:	Q96PM5
Cytogenetics:	4q21.1
Domains:	RING
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	p53 signaling pathway, Ubiquitin mediated proteolysis
MW:	30.1 kDa
Gene Summary:	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

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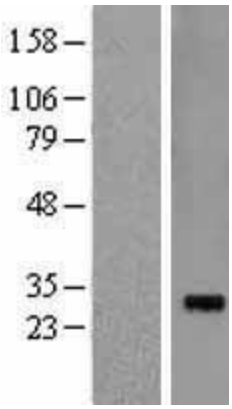
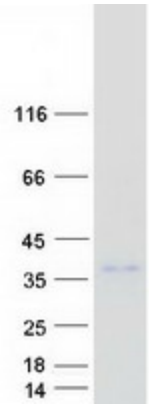


Western blot validation of overexpression lysate (Cat# [LY402435]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207970 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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]).

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