

Product datasheet for **RG207970**

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:	TurboGFP
Symbol:	Pirh2
Synonyms:	ARNIP; CHIMP; PIRH2; PRO1996; RNF199; ZCHY; ZNF363
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207970 representing NM_015436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGACGGCCCGGAAGATGGCGCCAGCGGTCAAGAGCGAGGTCAGCGGGCTGCGAGCACTATG
ACAGAGGATGTCTCCTAAAGGCACCTTGTGTGACAAGCTTTATACTTGCCGCTTGTGTCATGATAACAA
TGAAGATCATCAACTAGATCGCTTTAAAGTGAAGGAAGTGCAGTGCATAAACTGTAAAAAATCAACAT
GCCAACAGACTTGTGAAGAATGTAGCACATTGTTGGAGAATATTATTGCGATATATGCCATTTGTTT
ACAAAGATAAGAAGCAGTATCACTGTGAAAAGTGTGGAATTTGTAGGATTGGTCCAAAGGAAGATTTTT
CCATTGTTGAAATGTAACCTTATGCCTAGCTATGAATCTTCAAGGAAGACACAAGTGTATTGAAAATGTG
TCCCAACAGAATTGTCCAATATGTTGGAGGACATTCACACATCCCGTGTGTTGCTCATGTCTTGCCAT
GTGGACATCTTTTACATAGAACGTGTTATGAAGAAATGTTGAAAGAAGGCTACAGATGTCCATTATGTAT
GCACTCTGCTTTAGATATGACCAGGATTGGAGACAGCTGGATGATGAAGTAGCACAGACTCCTATGCCA
TCAGAATATCAGAACATGACTGTGGATTTCTCTGCAATGACTGTAATGGACGATCCACTGTTCAAGTTTC
ATATATTAGGCATGAAATGTAAGATTTGTGAATCTATAATACTGCTCAAGCTGGAGGACGTAGAATTC
ACTGGATCAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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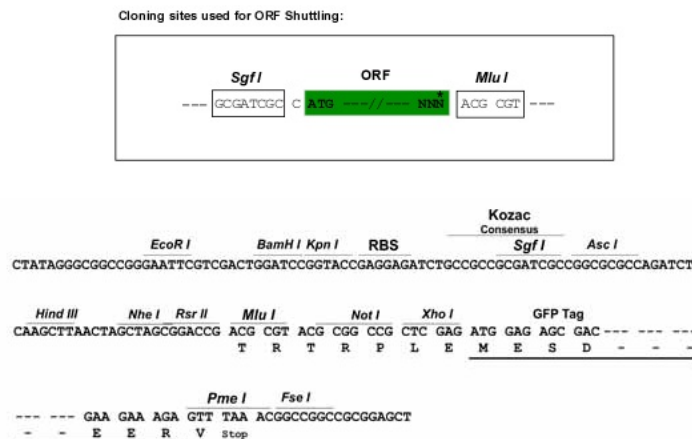
Protein Sequence: >RG207970 representing NM_015436
 Red=Cloning site Green=Tags(s)

MAATAREDGASGQERQGRGCEHYDRGCLLKAPCCDKLYTCRLCHDNNEDHQLDRFKVKEVQCINCEKIQH
 AQTCEECSLTFGEYYCDICHLFDKDKKQYHCENCIGICRIGPKEDFFHCLKCNLCLAMNLQGRHKCIENV
 SQQNCPICLEDIHTSRVVAHVLP CGHLLHRTCYEEMLKEGYRCP LCMHSALDMTRYWRQLDDEVAQT PMP
 SEYQNM TVDILCND CNGRSTVQFHILGMCKICESYNTAQAGGRRISLDQQ

TRTRPLE - GFP Tag - V

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).

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_015436.2](#), [NP_056251.2](#)

RefSeq Size: 4336 bp

RefSeq ORF: 786 bp

Locus ID: 25898

UniProt ID: [Q96PM5](#)

Cytogenetics: 4q21.1

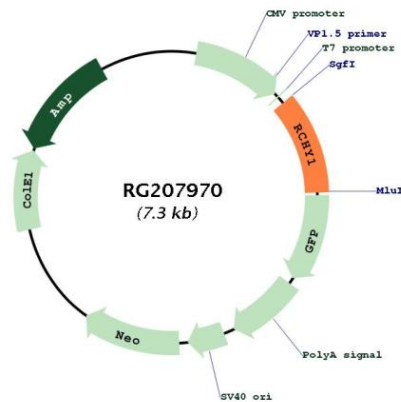
Domains: RING

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: p53 signaling pathway, Ubiquitin mediated proteolysis

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 RG207970