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Product datasheet for RC219130

Pirh2 (RCHY1) (NM_001009922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pirh2 (RCHY1) (NM_001009922) 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:

>RC219130 representing NM_001009922
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGACGGCCCGGGAAGATGGCGCCAGCGGTCAAGAGCGAGGTCAGCGGGGCTGCGAGCACTATG
ACAGAGGATGTCTCCTAAAGGCACCTTGCTGTGACAAGCTTTATACTTGCCGCTTGTGTCATGATAACAA
TGAAGATCATCAACTAGATCGCTTTAAAGTGAAGGAAGTGCAGTGCATAAACTGTGAAAAAATTCAACAT
GCCCAACAGACTTGTGAAGAATGTAGCACATTGTTTGGAGAATATTATTGCGATATATGCCATTTGTTTG
ACAAAGATAAGAAGCAGTATCACTGTGAAAACTGTGGAATTTGTAGGATTGGTCCAAAGGAAGATTTTTT
CCATTGTTTGAAATGTAACTTATGCCTAGCTATGAATCTTCAAGGAAGACACAAGTGTATTGAAAATGTG
TCCCGACAGAATTGTCCAATATGTTTGGAGGACATTCACACATCCCGTGTTGTTGCTCATGTCTTGCCAT
GTGGACATCTTTTACATAGAGGCTACAGATGTCCATTATGTATGCACTCTGCTTTAGATATGACCAGGTA
TTGGAGACAGCTGGATGATGAAGTAGCACAGACTCCTATGCCATCAGAATATCAGAACATGACTGTGGAT
ATTCTCTGCAATGACTGTAATGGACGATCCACTGTTCAGTTTCATATATTAGGCATGAAATGTAAGATTT
GTGAATCCTATAATACTGCTCAAGCTGGAGGACGTAGAATTTCACTGGATCAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219130 representing NM_001009922
Red=Cloning site Green=Tags(s)

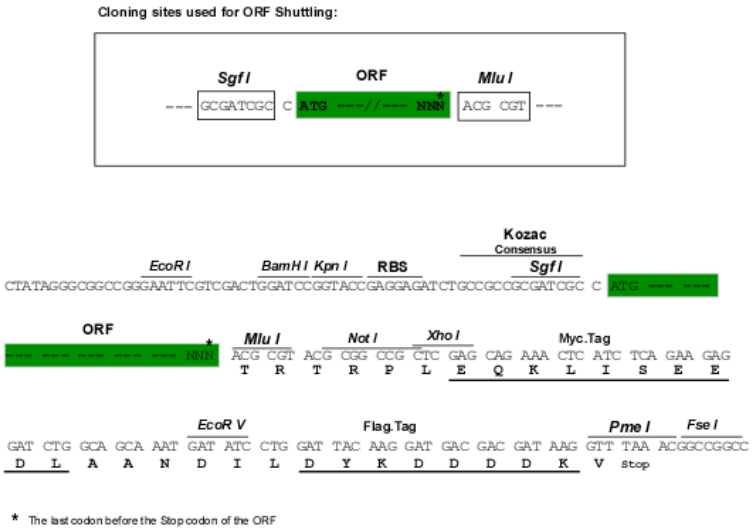
MAATAREDGASGQERGQRGCEHYDRGCLLKAPCCDKLYTCRLCHDNNEDHQLDRFKVKEVQCINCEKIQH
AQQTCEECSTLFGEYYCDICHLFDKDKKQYHCENCGICRIGPKEDFFHCLKCNLCLAMNLQGRHKCIENV
SRQNCPICLEDIHTSRVVAHVLPCGHLLHRGYRCPLCMHSALDMTRYWRQLDDEVAQTPMPSEYQNMTVD
ILCNDCNGRSTVQFHILGMKCKICESYNTAQAGGRRISLDQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001009922

ORF Size:

756 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_001009922.2, NP_001009922.1

RefSeq Size: 4420 bp

RefSeq ORF: 759 bp

Locus ID: 25898

UniProt ID: Q96PM5

Cytogenetics: 4q21.1

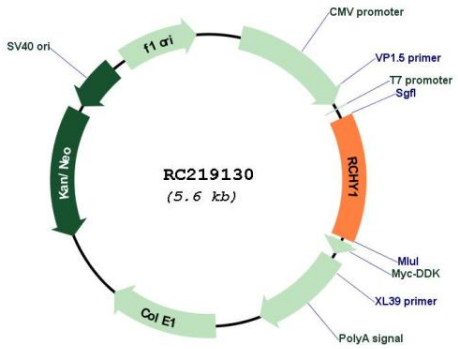
Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: p53 signaling pathway, Ubiquitin mediated proteolysis

MW: 29 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 RC219130