

Product datasheet for **RC223111**

Pirin (PIR) (NM_003662) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pirin (PIR) (NM_003662) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pirin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC223111 representing NM_003662
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTCCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGTTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAATCTGGATCCGTTTTACTGTTTGATGAATTTAAAGG
AGGTAGACCAGGAGGATTTCTGATCATCCACATCGAGTTTTGAAACAGTATCCTACCTCCTGGAAGGG
GGCAGCATGGCCCATGAAGACTTCTGTGGACACACTGGTAAAATGAACCCAGGAGATTTGCAGTGGATGA
CTGCGGGCCGGGCATTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTG
GGTTAATTTGAGGAGCTCAGAGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCT
AAACCCAGTAAGGATGGTGTGACAGTTGCTGTCAATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTT
ACACTCGCACACCAACCTTATATTTGGACTTCAAATTGGACCCAGGAGCCAAACATTCCTCAACCTATCCC
TAAAGGGTGGACAAGCTTCATTTACACGATATCTGGAGATGTGTATATTGGGCCCGATGATGCACAACAA
AAAATAGAACCTCATCACACAGCAGTGTGGAGAAGGTGACAGTGTCCAAGTGGAGAACAAGGATCCCA
AGAGAAGCCACTTTGTCTTAATTGCTGGGAGCCATTAAGAGAACCAGTTATCCAACATGGTCCATTTGT
GATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTAGAAAACGCAAAAAATGGTTTGAAGG
GCCAAAACCTGGAAATCAAAGATTGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223111 representing NM_003662
Red=Cloning site Green=Tags(s)

MGSSKKVTL SVLSREQSEGVGARVRRS IGRPELKNLDPFLLFDEFKGGPRGGFPDHPHRGFETVSYLLEG
 GSM AHEDFCGHTGKMNPGLQWMTAGRGILHAEMPCSEEP AHGLQLWVNLRSSEKMVEPQYQELKSEEIP
 KPSKDGVTVAVISGEALGIKSKVYTRPTLYLDFKLDPGAKHSQPIPKGWT SF IY TISGDVYIGPDDAQQ
 KIEPHHTAVLGE GDSVQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQA ILDFRNAKNGFER
 AKTWKSKI GN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6105_d07.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_003662

ORF Size: 870 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_003662.3](#)

RefSeq Size: 1316 bp

RefSeq ORF: 873 bp

Locus ID: 8544

UniProt ID: [O00625](#)

Cytogenetics: Xp22.2

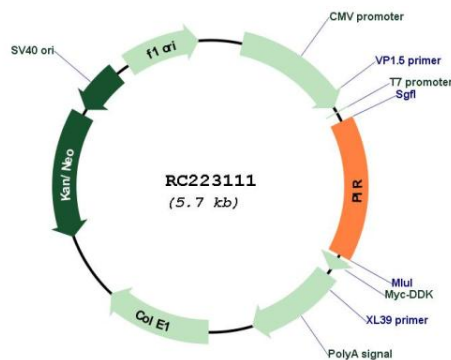
Domains: DUF209

Protein Families: Transcription Factors

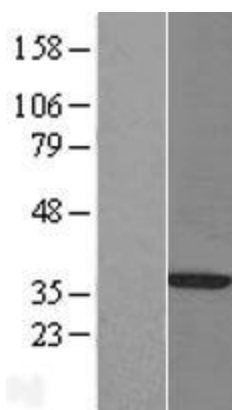
MW: 31.9 kDa

Gene Summary: This gene encodes a member of the cupin superfamily. The encoded protein is an Fe(II)-containing nuclear protein expressed in all tissues of the body and concentrated within dot-like subnuclear structures. Interactions with nuclear factor I/CCAAT box transcription factor as well as B cell lymphoma 3-encoded oncoprotein suggest the encoded protein may act as a transcriptional cofactor and be involved in the regulation of DNA transcription and replication. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2008]

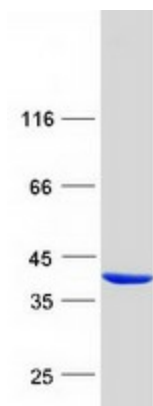
Product images:



Circular map for RC223111



Western blot validation of overexpression lysate (Cat# [LY401212]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223111 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified Pirin protein (Cat# [TP323111]). The protein was produced from HEK293T cells transfected with Pirin cDNA clone (Cat# RC223111) using MegaTran 2.0 (Cat# [TT210002]).