

Product datasheet for **RG223111**

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:	TurboGFP
Symbol:	Pirin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223111 representing NM_003662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTCCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG
 TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAATCTGGATCCGTTTTACTGTTTGATGAATTTAAAGG
 AGGTAGACCAGGAGGATTTCTGATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGG
 GGCAGCATGGCCCATGAAGACTTCTGTGGACACACTGGTAAATGAACCCAGGAGATTTGCAGTGGATGA
 CTGCGGGCCGGGCATTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTG
 GGTTAATTTGAGGAGCTCAGAGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCT
 AAACCCAGTAAGGATGGTGTGACAGTTGCTGTCAATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTT
 ACACTCGCACACCAACCTTATATTTGGACTTCAAATTGGACCCAGGAGCCAAACATTCCTAACCTATCCC
 TAAAGGGTGGACAAGCTTCATTTACACGATATCTGGAGATGTGTATATTGGGCCCGATGATGCACAACAA
 AAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTGACAGTGTCCAGGTGGAGAACAAGGATCCCA
 AGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAACCAGTTATCCAACATGGTCCATTTGT
 GATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTAGAAAACGCAAAAAATGGGTTTGAAAGG
 GCCAAAACCTGGAAATCAAAGATTGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG223111 representing NM_003662
 Red=Cloning site Green=Tags(s)

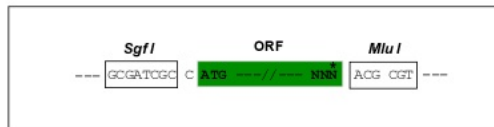
MGSSKKVTL SVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHGRGFETVSYLLEG
 GSMAHEDFCGHTGKMNPGLQWMTAGRGILHAEMPCSEEPAGHLQLWVNLRSSEKMVEPQYQELKSEEIP
 KPSKDGVTVAVISGEALGIKSKVYTRPTLYLDFKLDPGAKHSQPIPKGWT SFIYITISGDVYIGPDDAQQ
 KIEPHHTAVLGE GDSVQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQAILD FRNAKNGFER
 AKTWKSKIGN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGGCGCGCCAGATCT

CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGGCGCGCCAGATCT

CAAGCTTAAGTACGACGCGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

- - E E R V Stop

ACCN: NM_003662

ORF Size: 870 bp

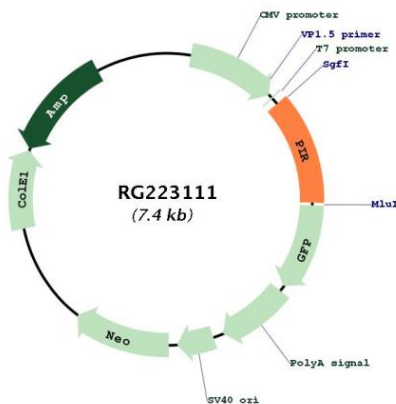
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003662.3</u>
RefSeq Size:	1316 bp
RefSeq ORF:	873 bp
Locus ID:	8544
UniProt ID:	<u>Q00625</u>
Cytogenetics:	Xp22.2
Domains:	DUF209
Protein Families:	Transcription Factors
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 RG223111