

Product datasheet for **MR223372**

Rbak (NM_021326) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbak (NM_021326) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbak
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR223372 representing NM_021326, **codon optimized**.
 Due to the complexity of NM_021326, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAGTAGAAGCAAGGGCCCTTTGAGCTTCAAAGATGTGGCCGTCGCCTTTTCTCAGGAGGAGTGGCAGC
 AGCTCGATCCCGAAGAAAGAACTACCTATAGGGACGTGATGCTCGAGACATACAGCAATCTGGTGTCACT
 CGGATACGACGTGACTAAGCCTAATATGATCATCAAAGTGGAGCAGGGCGAGGAACCTTGGACTGTCGAG
 GGGGACAGGCACGCGCAAAGACATCTCGAAATTAGCAAGTCTACGACCCACGGGAAGGGATAGAAGAAA
 TCGGAGAAAAGCCTCCAGTGTGACGACGATCCCTACTGTTGGAGGGCTGAAAAGGGTGCCGCCTTCGA
 CGAGGCCATACCTGGAGACGGCCCTATTTCCCCCTCCAGTGGCGCACATTCTGTGTCACTTGGCGT
 GAGACACTGGAGAGCGTGAGTGAAGTATTAGCTCCGACGGGTCTTATGCTTTGGAAAAGCCTAGCATGT
 GCTTCGAGTGGCGAAGGCCATATGGCGAGTCCCTGGAAGACTTCAACCAGGACGAAGGGAACCTATCACA
 GCACGATGAAAATATCCTCCAGAAAGTGACCATCTTGGAAAAGCCTTTTGCTATGAGTGTATGGAAGCA
 CTGGATAGTGAGTCTGTGTTTATGGCGCGGGAGCGGCATACATGGGCGAGAAGCCCTATGATTGGGGCG
 ACTCAGGACCTGATTTTATTCAGATGAGCGATTTTCAACCTACCCTAGGAGTCAGATGGAAGTGAAGCC
 TTTTGAATGCACTCAATGTGAAAAGAGCTTTTGTAAAGAAAGCAAGTTTATCATCCACGAGAGAGTCAT
 ACAGGAGAGAAGCCCTACGCCTGTTCTGTCTGTGGAAAGTCTTTCTCTCAGAAGGGCACGCTGACCGTGC
 ACCGCCGGAGCCATCTGGAGGAGAAGCCCTACAAGTGAATGAATGCGGCAAGACCTTCTGTGAGAAGCT
 TCATTTGACGCAGCATCAGCGAACGCACAGTGGCGAGAAGCCTTACGAATGTTTCAAGTGTGGTAAAGC
 TTCTGTGAGAAGACGCACCTGACATTGCATCAGCGCAACCACTCCGGCGAGCGGCCCTACCCGTGTAACG
 AGTGGCGCAAGTCTTCTCCGCAAGTCAAGCCCTCAACGACCATCAGAGAACACATACCGGCGAAAAGCT
 CTACAAGTGAATGAGTGTGGCAAAAGTTATTATCGGAAAAGCACCTGATTACACACGCGGACTCAT
 ACAGGCGAAAAACCGTATCAGTGCAGCGAGTGTGGTAAATTCTTCTCAGAGTGTCTTATCTGACCATTC
 ACTATAGAAGCCACCTGGAGGAGAAACCTACGAGTGCAGTGTGGCAAAACATTTAATCTGAACTC
 CGCCTTTATCAGACACTGGAAGGTGCATGCCGAGGAAAGAGTGAAGAGTGGGAGAGTGTGGGAAACCC
 TCCCTCTGCACTGCGCACCTGATCATACTGGCGACCTCGGGGAAAAACGGTATGAATGTAAAGAGTGGC
 GAAAAACATTCTGGACTCCAGCGCTTTTACC GCCATCAGTCACTCCCTGAGGGTGAGAAAACCTACGA
 ATGCAACATATGTGGCAATCATTTAGTGATAGTGTCTATACAGTCCACTATAGGGGCCACTCCGAG
 GAGAAGCCTTTCGGATGTTCTGAGTGTGGAAAACCTTCTCCATAACTCTTCTGTTCGACACCAGA
 GGGTGCATACCGGGGAGAAGCCCTATGAGTGTACGAATGTGGCAAAATCTTCTCTCAGAAGAGTTATCT
 GACAATACATACCGGATTCACAGTGGGAGAAGCCCTACGAGTGCAGTAAGTGGGTAAAGTGTTCAGC
 CGAATGTCTAATCTGACGGTGCAGTACAGATCTCACTCCGAGAGAAAAGCCTTACGAGTGTAAAGAGTGCG
 GTAAAGTTTTAGTCAGAAGAGCTATCTGACTGTCCACTACCGAACGCACTCAGGCGAAAAGCCATACGA
 ATGTAACGAGTGTGGTAAAAAGTTTACCATCGGTCTGCCTTTAATAGTCATCAGCGAATTCACAAGAGA
 GGCACCGTTAACGTACTGACTGTTGAGAACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223372 representing NM_021326
Red=Cloning site Green=Tags(s)

MSRSKGPLSFKDVAVAFSQEEWQQLDPEERTTYRDVMLETYSNLVSVGYDVTKPNMIKLEQGEEPWTV
GDRHAQRHLEISKVYDPREGIEEIGEKHLQCDDDPYCWRAEKGAADFAYTLETALISPSSGAHSCVSCG
ETLESVSELISSDGSYALEKPSMCFECGKAYGESLEDFNQDEGNSSQHDENILQKVTILEKPFAYECMEA
LDSESVFMARERAYMGEKPYDWGDSGPDFIQMSDFSTYPRSQMELKPFECTQCGKSFCKKSKFIIHQRAH
TGEKPYACSVCGKFSQKGTLTVHRRSHLEEKPYKCNECGKTFQKQLHLTQHQRTHSGEKPYESCECGKS
FCQKTHLTQHQRTHSGERPYPCNECGKFSRKSALNDHQRTHTGEKLYKCNECGKSYRKSTLITHQRTHT
TGEKPYQCSECGKFFSRVSYLTIHYRSHLEEKPYECTECGKTFNLNSAFIRHWKVHAEERVQECGECGKP
SPLQCAPDHTGDLGEKRYECNECGKTFDSSAFHRHQSVPEGEKTYECNICGKSFSDSSCYTVHYRHSE
EKPFGCSECGKTFSHNSSLFRHQRVHTGEKPYECYECGKFFSQKSYLTIHRIHSGEKPYESCKGKVF
RMSNLTVHYRSHSGEKPYESNECGKVFQKSYLTVHYRTHSGEKPYESNECGKFFHRSFNSHQRIHKR
GTNVNLVTEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_021326

ORF Size: 2133 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: [NM_021326.1](#), [NM_021326.2](#), [NM_021326.3](#), [NP_067301.1](#)

RefSeq Size: 3480 bp

RefSeq ORF: 2136 bp

Locus ID: 57782

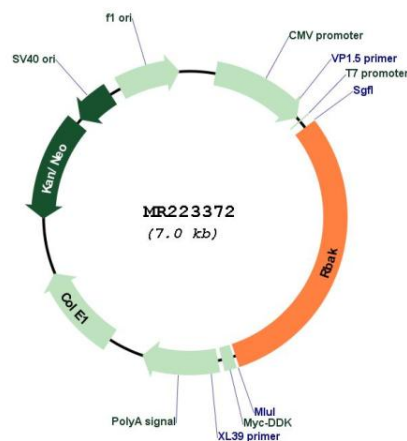
UniProt ID: [Q8BQC8](#)

Cytogenetics: 5 G2

MW: 81.7 kDa

Gene Summary: May repress E2F-dependent transcription. May promote AR-dependent transcription. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223372