

Product datasheet for **MG204659**

Ybx1 (BC031472) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ybx1 (BC031472) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ybx1
Synonyms:	1700102N10Rik, MSY1, mYB-1a, EF1A, YB-1, dbpB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204659 representing BC031472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCCGCCCGCCCGCCCTCAGCGCCGCCGACACCA
AGCCCGGCTCCACGGGCAGCGCGCGGGTAGTGGCGGCCGGGTGGCTCACATCGCGCGGCCCGCG
CGGGGACAAGAAGGTCATCGCAACGAAGTTTTGGGAACAGTCAAATGGTTCAATGTAAGGAACGGATAC
GGTTTCATCAACAGGAATGACACCAAGGAAGACGTATTTGTACACCAGACTGCCATAAAGAAGAATAACC
CCAGGAAGTACCTTCGCAGTGTAGCGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGG
TGCGGAGGCAGCAAATGTTACAGGCCCTGGTGGAGTTCAGTTCAAGGCAGTAAATACGCAGCAGACCGT
AACCATATAGACGTTATCCACGTCGTAGGGTCTCCACGCAATTACCAGCAAAATTACCAGAATAGTG
AGAGTGGGAAAAGAACGAGGGATCGGAAAGCGCTCCTGAAGGCCAGGCCAACAACGCCGGCCCTATCG
CAGGCGAAGGTTCCACCTTACTACATGCGGAGACCTATGCGCGTCGACCACAGTATCCAACCCCT
GTGCAAGGAGAAGTGTAGGAGGTGCTGACAACCAGGGTGCGAGGAGCAAGGTAGACCAGTGAGACAGA
ATATGTATCGGGTTACAGACCAGATTCCGAAGGGCCCTCCTCGCAAAGACAGCCTAGAGAGGATGG
CAATGAAGAGGACAAAGAAAATCAAGGAGATGAGACCAAGGTCAGCAGCCACCTCAACGTCGGTATCGC
CGAAACTTCAATTACCGACGCAGACGCCAGAGAACCCTAAACCACAAGATGGCAAAGAGACAAAAGCAG
CCGATCCACCAGCTGAGAATTCGTCGCCCTCCGAGGCTGAGCAGGGCGGGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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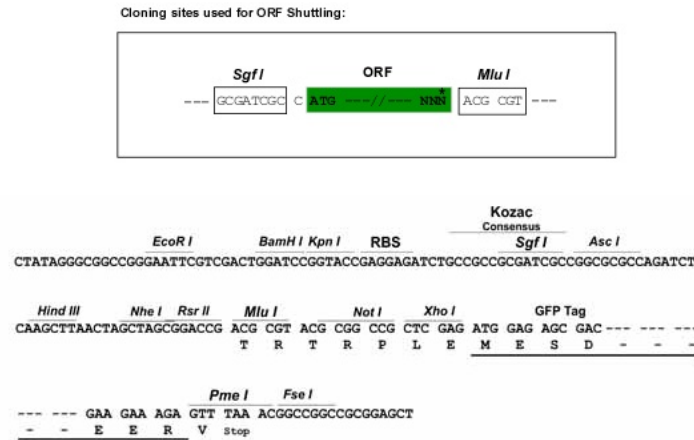
Protein Sequence: >MG204659 representing BC031472
 Red=Cloning site Green=Tags(s)

MSSEAETQPPAAPAAALSAADTKPGSTGSGAGSGGPGGLTSAAPAGDKKVIATKVLGTVKWFNVRNGY
 GFINRNDTKEDVFVHQTAIKKNPRKYLRSVGDGETVEFDVVEGEKGAEEANVTGPGGVPVQGSKYAADR
 NHYRRYPRRRGPPRNYQQNYQNSESGEKNESSESAPEGQAQRRPYRRRRFPYYMRRPYARRPQYSNPP
 VQGEVMEGADNQAGEQGRPVQRNMYRGYRPRFRRGPPRQRQPREDDGNEEDKENQDDETQGGQPPQRRYR
 RNFNYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGGAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC031472

ORF Size: 968 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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:	BC031472 , AAH31472
RefSeq Size:	1562 bp
RefSeq ORF:	968 bp
Locus ID:	22608
Cytogenetics:	4 D2.1
Gene Summary:	Mediates pre-mRNA alternative splicing regulation. Component of the CRD-mediated complex that promotes MYC mRNA stability. Binds to splice sites in pre-mRNA and regulates splice site selection. Binds and stabilizes cytoplasmic mRNA. Contributes to the regulation of translation by modulating the interaction between the mRNA and eukaryotic initiation factors. Binds to promoters that contain a Y-box (5'-CTGATTGGCCAA-3'), such as HLA class II genes. Regulates the transcription of numerous genes. Promotes separation of DNA strands that contain mismatches or are modified by cisplatin. Has endonucleolytic activity and can introduce nicks or breaks into double-stranded DNA (in vitro). May play a role in DNA repair. Its transcriptional activity on the multidrug resistance gene MDR1 is enhanced in presence of the APEX1 acetylated form at 'Lys-6' and 'Lys-7'. Binds preferentially to 5'-[CU]CUGCG-3' motif in vitro (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204659