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Product datasheet for RC202988

WIBG (PYM1) (NM_032345) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WIBG (PYM1) (NM_032345) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WIBG
Synonyms:	PYM; WIBG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202988 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGCTGCCGGCAGCCCTGCGGCTACGGAGACAGGCAAGTATATCGCGTCAACACAGCGACCTGACG
GGACCTGGCGCAAGCAGCGGAGGGTGAAAGAAGGATATGTGCCCCAGGAGGAGGTCCCAGTATATGAAAA
CAAGTATGTGAAGTTTTTCAAGAGTAAACCAGAGTTGCCCCCAGGGCTAAGCCCTGAGGCCACTGCTCCT
GTCACCCCATCCAGGCCTGAAGGTGGTGAACCAGGCCTCTCCAAGACAGCCAAACGTAACCTGAAGCGAA
AGGAGAAGAGGCGGCAGCAGCAAGAGAAAGGAGAGGCAGAGGCCTTGAGCAGGACTCTTGATAAGGTGTC
CCTGGAAGAGACAGCCCAACTCCCCAGTGCTCCACAGGGCTCTCGGGCAGCCCCCACAGCTGCATCTGAC
CAGCCTGACTCAGCTGCCACCACTGAGAAAGCCAAGAAGATAAAGAACCTAAAGAAGAAACTCCGGCAGG
TGGAAGAGCTGCAGCAGCGGATCCAGGCTGGGGAAGTCAGCCAGCCCAGCAAAGAGCAGCTAGAAAAGCT
AGCAAGGAGGAGGGCGCTAGAAGAGGAGTTAGAGGACTTGGAGTTAGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202988 protein sequence
Red=Cloning site Green=Tags(s)

MEAAGSPAATETGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVKFFKSKPELPPGLSPEATAP
VTPSRPEGGEPGLSKTAKRNLKRKEKRRQQQEKGEAEALSRTLDKVSLEETAQLPSAPQGSRAAPTAASD
QPDSAATTEKAKKIKNLKKKLRQVEELQQRIQAGEVSQPSKEQLEKLARRRALEEELEDLELGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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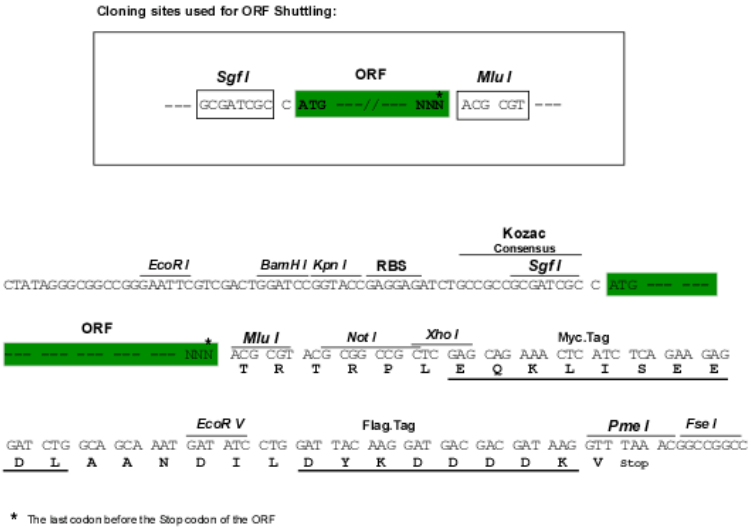
Chromatograms: https://cdn.origene.com/chromatograms/mk6411_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032345

ORF Size: 612 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_032345.2

RefSeq Size: 1244 bp

RefSeq ORF: 615 bp

Locus ID: 84305

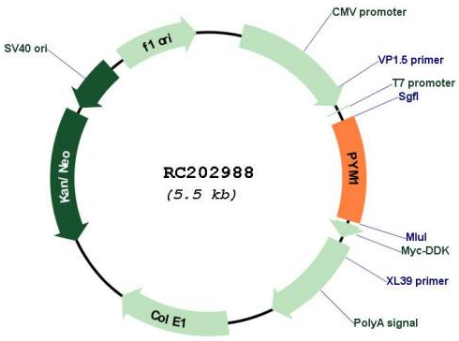
UniProt ID: Q9BRP8

Cytogenetics: 12q13.2

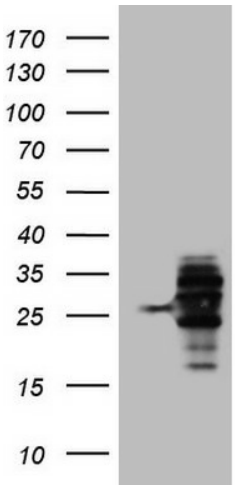
MW: 22.7 kDa

Gene Summary: Key regulator of the exon junction complex (EJC), a multiprotein complex that associates immediately upstream of the exon-exon junction on mRNAs and serves as a positional landmark for the intron exon structure of genes and directs post-transcriptional processes in the cytoplasm such as mRNA export, nonsense-mediated mRNA decay (NMD) or translation. Acts as an EJC disassembly factor, allowing translation-dependent EJC removal and recycling by disrupting mature EJC from spliced mRNAs. Its association with the 40S ribosomal subunit probably prevents a translation-independent disassembly of the EJC from spliced mRNAs, by restricting its activity to mRNAs that have been translated. Interferes with NMD and enhances translation of spliced mRNAs, probably by antagonizing EJC functions. May bind RNA; the relevance of RNA-binding remains unclear in vivo, RNA-binding was detected by PubMed:14968132, while PubMed:19410547 did not detect RNA-binding activity independently of the EJC.[UniProtKB/Swiss-Prot Function]

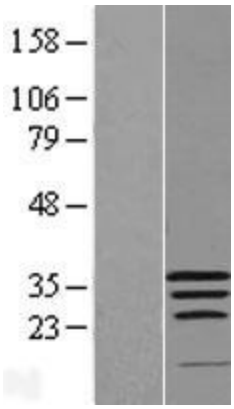
Product images:



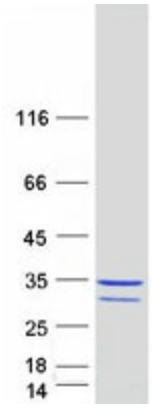
Circular map for RC202988



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY WIBG (Cat# RC202988, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-WIBG(Cat# [TA806496]). Positive lysates [LY410182] (100ug) and [LC410182] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY410182]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202988 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PYM1 protein (Cat# [TP302988]). The protein was produced from HEK293T cells transfected with PYM1 cDNA clone (Cat# RC202988) using MegaTran 2.0 (Cat# [TT210002]).