

## Product datasheet for **RG227106**

### WIBG (PYM1) (NM\_001143853) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** WIBG (PYM1) (NM\_001143853) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PYM1  
**Synonyms:** PYM; WIBG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG227106 representing NM\_001143853  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACTCCCTATGTTACTGACGAGACCGGGCGCAAGTATATCGCGTCAACACAGCGACCTGACGGGA  
CCTGGCGCAAGCAGCGGAGGGTAAAGAAGGATATGTGCCCCAGGAGGAGGTCCCAGTATATGAAAAACA  
GTATGTGAAGTTTTTCAAGAGTAAACCAGAGTTGCCCCAGGGCTAAGCCCTGAGGCCACTGCTCCTGTC  
ACCCATCCAGGCCTGAAGGTGGTGAACCAGGCCTCTCCAAGACAGCCAAACGTAACCTGAAGCGAAAGG  
AGAAGAGCGGCAGCAGCAAGAGAAAGGAGAGGCAGAGGCCTTGAGCAGGACTCTTGATAAGGTGTCCCT  
GGAAGAGACAGCCAACTCCCAGTGCTCCACAGGGCTCTCGGGCAGCCCCACAGCTGCATCTGACCAG  
CCTGACTCAGTGCCACCACTGAGAAAGCCAAGAAGATAAAGAACCTAAAGAAGAACTCCGGCAGGTGG  
AAGAGTGCAGCAGCGGATCCAGGCTGGGGAAGTCAGCCAGCCCAGCAAAGAGCAGCTAGAAAAGCTAGC  
AAGGAGGAGGGCGCTAGAAGAGGAGTTAGAGGACTTGAGGTTAGGCCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG227106 representing NM\_001143853  
Red=Cloning site Green=Tags(s)

MATPYVTDETGGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVFFKSKPELPPGLSPEATAPV  
TPSRPEGGEPGLSKTAKRNLKRKEKRRQQQEKGEAEALSRTLDKVSL EETAQLPSAPQGSRAAPTAASDQ  
PDSAATTEKAKKIKNLKKLRQVEELQQRIQAGEVVSQPSKEQLEKLARRRALEEELEDLELGL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**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\\_001143853.1](#), [NP\\_001137325.1](#)

**RefSeq Size:** 1105 bp

**RefSeq ORF:** 612 bp

**Locus ID:** 84305

**UniProt ID:** [Q9BRP8](#)

**Cytogenetics:** 12q13.2

**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]