

**Table S4****PCR primers used in this study**

Name	Sequence(5'-3')
BLM10-Seq-1F	ATGGACGAGAACATCGGACCT
BLM10- Seq-1R	GCAAGAACAAGGAGTGGTCA
BLM10- Seq-2F	TTCCCCAATCATCGACG
BLM10- Seq-2R	GGCAAAGTAACTCTTCCAGAGTACTCC
PRE5- Seq-F	ATGTTTCGAAACAACCTACGATAACGATTC
PRE5- Seq-R	TTAGCTGTCAACGTCCATACCTTC
PRE6- Seq-F	ATGGTGGATCCCAGCTCCG
PRE6- Seq-R	TTATTCCGCAGCAGAGTCATCTTGA
BLM10-1F	CAGGTAGCTTCCATACATAGTAGCATA
BLM10-2R	CAGATACGGCAGAGAAATCGCAACCTCAGTGGACAGATGATGTGTGT G
BLM10-3F	GTTTAGATTCCAAGTGTCTACTGCTGGCTGGAAGCGAATCAGGCAGG GC
BLM10-4R	GACATTATTCTGATACGATCAACGC
BLM10-5F	TTTGTATGAGCCTGAGGTCATTCAG
BLM10-6R	CTTGTCCAACCTCGCTCTTCTG
BLM10-7F	GCTCAATATAGCACCGAGAACT
BLM10-8R	CTTTGAACCAATCACAAGGCT
HYG-F	GGCTTGGCTGGAGCTAGTGGAGGTCAA
HY-R	GTATTGACCGATTCTTGCAGTCCGAA
YG-F	GATGTAGGAGGGCGTGGATATGTCCT
HT-R	GTCGACTTAATAACACATTGCGGACGT
H855F	GTCGATGCGACGCAATCGT
HT856R	ATCAGCCCCACTTGTAGCAGTAGC
BLM10 <sup>N392</sup> -3F	GTTTAGATTCCAAGTGTCTACTGCTGGCAGACTCCATGAATCCCTCCAA ATGA
PKR-1F	TGTGCGTCAACTATGGGTCTGG
PKR-2R	AATGCTCCTTCAATATCATCTTCTGTCAGATGTTATGTCGTCGAAGAG GC
PKR-3F	CGTCCGCAATGTGTTATTAAGTCGACAGTGATGTTTCAGGTTGTCTCGT G
PKR-4R	AGCCAGGAGAAATAACGCACC
PKR-5F	ACGACACCATCACATCGCCTAC
PKR-6R	AGATCCCTTCTCGACGACATAGAA
PKR-7F	GCCTTGTGAGCCCTTGTTGTG
PKR-8R	GGAAACCGAAGTTGCTGTTGAGG
GEN-F	GAGGTTGCGATTTCTCTGCCGTATCTG
GEN-R	GCCAGCAGTAGACACTTGGAATCTAAAC
G852-F	TCGGCTATGACTGGGCACAACA
G850-R	GAGCGGCGATACCGTAAAGCAC

G855-R	TGTTGGGTTTGAGCTAGGTGGG
G856-F	GAATGGTCAAATCAAACCTGCTAGATAT
Blm10-motif-1f	GCGCCATGAAAGAACACCG
Blm10-motif-2r:	CAGATACGGCAGAGAAATCGCAACCTCCTAATCAATTGTTAGCGA
BLM10-motif-3f	GTTTAGATTCCAAGTGTCTACTGCTGGCAGGCAGGGCTGTGTTCAG
BLM10-motif-4r	CATATCGTCACTGTTAGTAAAATACGTGTGGT
Blm10-motif-5f	TATTTTACTTCCGAACAGCT
Blm10-motif-6r	GGCAAAGTAACTCTTCCAGA
Blm10-motif-7F	TTCGACAACTGGTATCAGAC
Blm10-motif-8R	ATAAGTGTCTGGGATGAATGT
PKNTG-	AGGAACCCAATCTTCAAACCTCGAGATGTAAGGTTACAACATCATCCC
BLM10- F:	ACT
BLM10 <sup>N392</sup> -R:	TGATTTTCAGTAACGTTAAGTGGATCCAATAGACTCCATGAATCCCTCC AAATG
Blm10-R:	TGATTTTCAGTAACGTTAAGTGGATCCGGCAAAGTAACTCTTCCAGAGT ACT
PKNTG-Pre5-F:	AGGAACCCAATCTTCAAACCTCGAGCATCATCACCATCACCATATGTTT CGAAACAACACTACGATAACGATT
Pre5-R:	TGATTTTCAGTAACGTTAAGTGGATCCGCTGTCAACGTCCATACCTT
PKNTG-Pre6-F:	GAACCCAATCTTCAAACCTCGAGCATCATCACCATCACCATATGGCTTC CGGATACGACAG
Pre6-R:	TGATTTTCAGTAACGTTAAGTGGATCCTTCCGCAGCAGAGTCATCT
Cpk1-RT-F	AGCAGTCTCAGCAACGATAC
Cpk1-RT-R	GTTCCAAGCGTCCTCAAGATA
Pre6 <sup>D82N</sup> -His-F:	TTAAACGCAAACGCTCGTATCCTCG
Pre6 <sup>D82N</sup> -His-R:	CGAGGATACGAGCGTTTGC GTTTAA
Pre5 <sup>K62E</sup> -His-F:	CTTACCAGAAGGAGCTCTTCACCG
Pre5 <sup>K62E</sup> -His-R:	CGGTGAAGAGCTCCTTCTGGTAAG
PKR-AD-F:	GCCATGGAGGCCAGTGAATTCATGTCCGGCCCTTTCTCC
PKR-AD-R:	CCACTGCTTGGGTGGAATTCGCCGGTGTGAAGTGGAT
Cpk1-AD-F	GCCATGGAGGCCAGTGAATTCGCCGGTGTGAAGTGGAT
Cpk1-AD-R	CCACTGCTTGGGTGGAATTCATGCCTTCACTGGGGTTTCT
BLM10-BD-F:	GAGGACCTGCATATGATGGACGAGAACATCGGACCT
BLM10-BD-R:	CTCCATGGCCATATG GGCAAAGTAACTCTTCCAGAGTACTCC
Blm10 <sup>1-392</sup> -AD-F	GCCATGGAGGCCAGTGAATTCATGGACGAGAACATCGGACCTCGCC
Blm10 <sup>1-392</sup> -AD-R	CCACTGCTTGGGTGGAATTCAGACTCCATGAATCCCTCCAAATGAGAT AT
Blm10 <sup>913-1924</sup> - BD-F	ATGGCCATGGAGGCCGAATTCATGGACCCTGAGCGTGCCGCGGGCAT
Blm10 <sup>913-1924</sup> - BD-F	CGACGGATCCCCGGGAATTCCTCGCTAAGAATTGTCTTGGTCGC

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