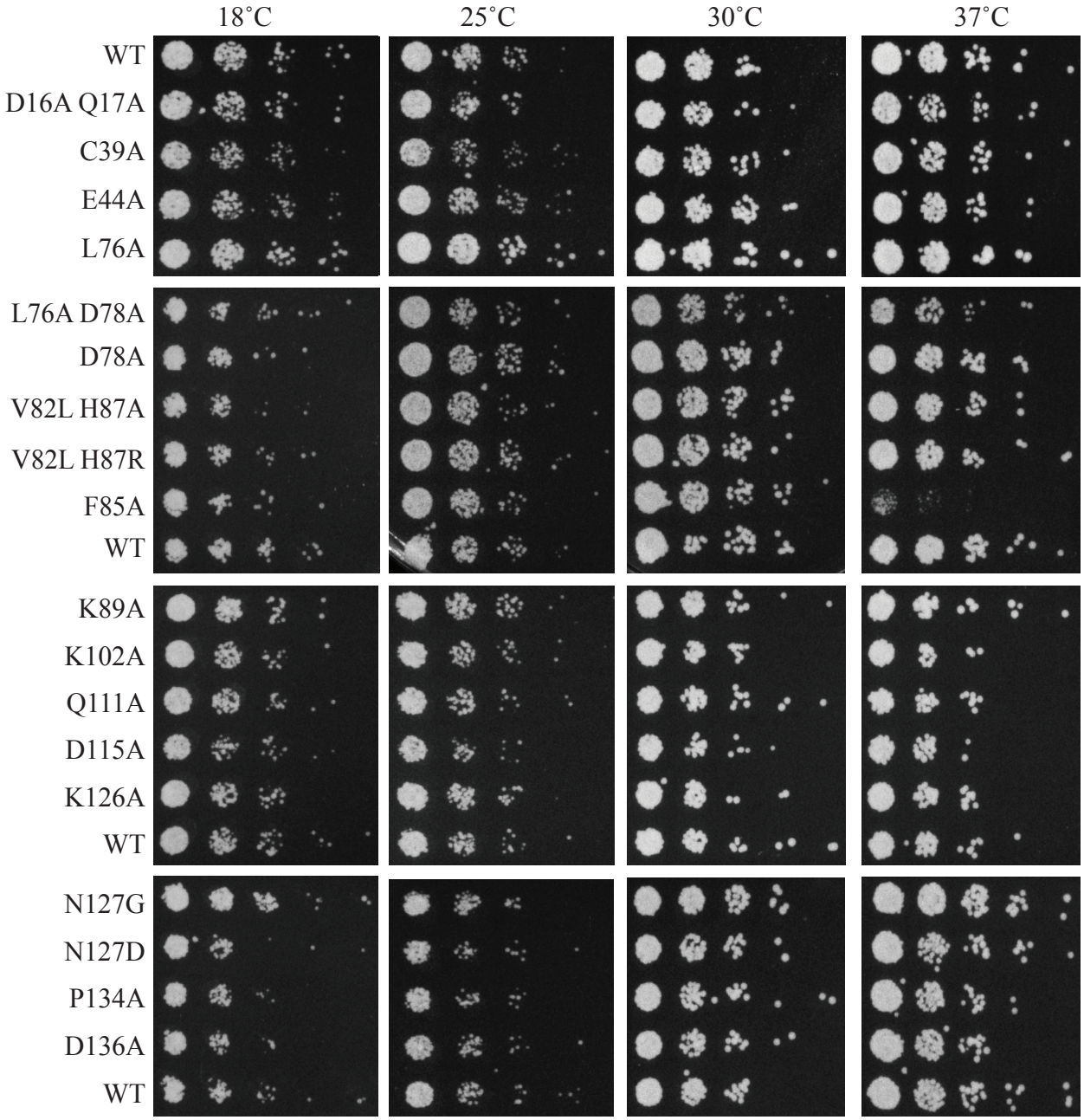
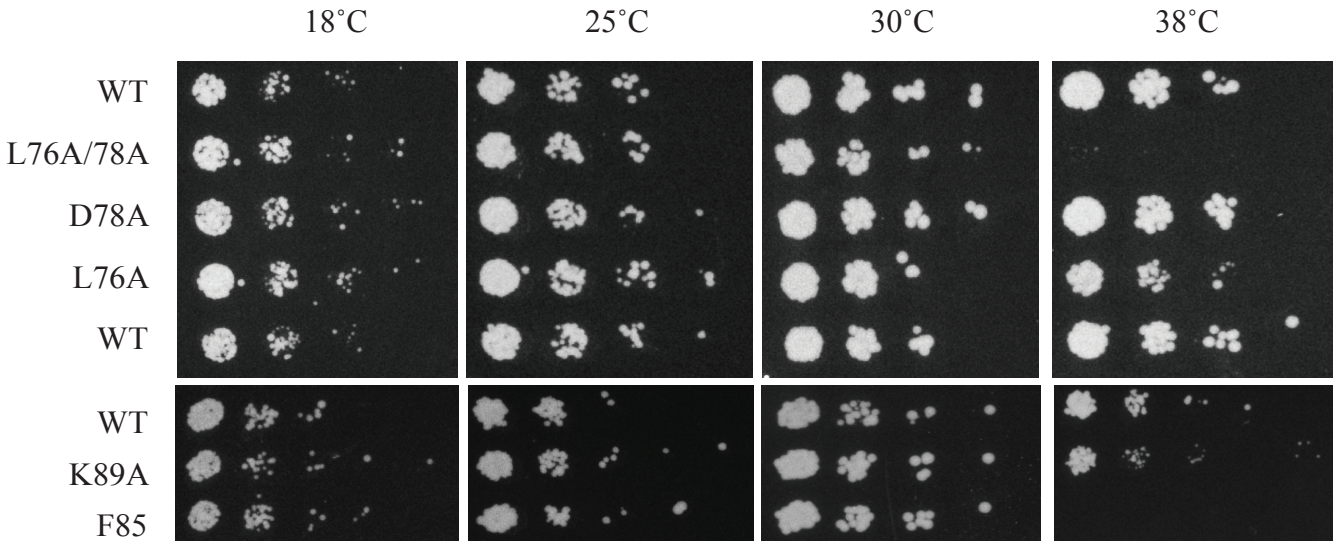
Supplemental Figure 1.



Growth phenotypes of *dib1* mutants. Serial dilutions of *S. cerevisae* harboring *dib1* mutants as the sole copy of *dib1* were spotted onto YPD and grown for five days at 18˚C, three days at 25˚C and two days at 30 and 37˚C.

Supplemental Figure 2.



Growth phenotypes of *dib1* mutants at 38˚C. Serial dilutions of *S. cerevisae* harboring *dib1* mutants as the sole copy of *dib1* were spotted onto YPD and grown for five days at 18˚C, three days at 25˚C and two days at 30 and 38˚C.

Supplemental Table 1. Oligonucleotides used in this study.

Name	Sequence (5'-3')	Description
oCM118	GCGAGCTCGGCGCTATTCTTATTTCCACC	Forward Dib1 -1kb with a SacI restriction site
oCM134	GATCTCTAGAGCCCATCAACCTGAAGC	Reverse Dib1 +1kb with a XbaI restriction site
oCM120	GGAATTCCATATGGCTAGTGTTTTGTTGCC	Forward Dib1 with a NdeI restriction site
oCM165	GGGCAGATCTTTATGAAACACGCTTATGA	Reverse Dib1 with BgIII restriction site
Oligo D1	GTTAAACTTTGT'TATGTCTCTACTAGTCGT CAAGGGGACGTATTCC	For U6 snRNA depletion
oCM197	CCCATGACAGTAATGTTTGCCTACCACAA TAAGCACATGATG	Forward primer for creating the F85A mutant
oCM198	CATCATGTGCTTATTGTGGTAGGCAAACA TTACTGTCATGGG	Reverse primer for creating the F85A mutant
oCM146	GATTTTGATGAGATGTACGAGGCTACGGC TCCCATGACAGTAATGTTTTTCTACCAC	Forward primer for creating the L76A D78A mutant
oCM147	GTGGTAGAAAAACATTACTGTCATGGGAG CCGTAGCCTCGTACATCTCATCAAAATC	Reverse primer for creating the L76A D78A mutant
oCM152	CGTACGGGATGGCATGTG**GCTGCT**GCTAT TGTTACCGAGACT	Forward primer for creating the D16A Q17A mutant
oCM153	AGTCTCGGTAACAATAGCAGCAGCCACAT GCCATCCCGTACG	Reverse primer for creating the D16A Q17A mutant
oCM150	GGTCGCAAAAATGATAGACAA**GCT**ATGA TCATGGACGAGTTGTTATCT	Forward primer for creating the C39A mutant
oCM151	AGATAACAACTCGTCCATGATCATAGCTT GTCTATCATTTTTGCGACC	Reverse primer for creating the C39A mutant
oCM226	AGACAATGTATGATCATGGACGCGTTGTT ATCTTCGATTGCTGAA	Forward primer for creating the E44A mutant
oCM227	TTCAGCAATCGAAGATAACAACGCGTCCA TGATCATACATTGTCT	Reverse primer for creating the E44A mutant
oCM166	GATTTTGATGAGATGTACGAG**GCT**ACGGA TCCCATGACAGTAATGTTTTTCTACCAC	Forward primer for creating the L76A mutant
oCM167	GTGGTAGAAAAACATTACTGTCATGGGAT CCGTAGCCTCGTACATCTCATCAAAATC	Reverse primer for creating the L76A mutant
oCM168	GATTTTGATGAGATGTACGAGCTGACG**GC T**CCCATGACAGTAATGTTTTTCTACCAC	Forward primer for creating the D78A mutant
oCM169	GTGGTAGAAAAACATTACTGTCATGGGAG CCGTCAGCTCGTACATCTCATCAAAATC	Reverse primer for creating the D78A mutant
oCM218	GGATCCCATGACACTAATGTTTTTCTACGC CAATAAGCACATGATGTG	Forward primer for creating the V82L H87A mutant
oCM219	CACATCATGTGCTTATTGGCGTAGAAAAA	Reverse primer for creating the

	CATTAGTGTCATGGGATCC	V82L H87A mutant
oCM220	CCCATGACACTAATGTTTTTCTACCGCAATAAGCACATGATGTG	Forward primer for creating the V82L H87R mutant
oCM221	CACATCATGTGCTTATTGCGGTAGAAAAACATTAGTGTCATGGG	Reverse primer for creating the V82L H87R mutant
oCM199	TCTACCACAAT**GCG**CACATGATGTGTGATTTTGGTACAGGGAAC	Forward primer for creating the K89A mutant
oCM200	GTTCCCTGTACCAAAATCACACATCATGTGCGCATTGTGGTAGA	Reverse primer for creating the K89A mutant
oCM158	TGTGATTTTGGTACAGGGAACAACAAC**GCT**TTGAACTTTATTGTAGACGAC	Forward primer for creating the K102A mutant
oCM159	GTCGTCTACAATAAAGTTCAAAGCGTTGTTGTTCCCTGTACCAAAATCACA	Reverse primer for creating the K102A mutant
oCM201	CAAGTTGAACTTTATTGTAGACGACAAA**GCA**GAAATGATTGACATATTAGAAAC	Forward primer for creating Q111A mutant
oCM202	GTTTCTAATATGTCAATCATTTCTGCTTTGTCGTCTACAATAAAGTTCAACTTG	Reverse primer for creating Q111A mutant
oCM156	GACGACAAACAAGAAATGATT**GCT**ATATTAGAAACTATATTCAGAGGTGCC	Forward primer for creating D115A mutant
oCM157	GGCACCTCTGAATATAGTTTCTAATATAGCAATCATTTCTTGTTTGTCGTC	Reverse primer for creating D115A mutant
oCM203	CAGAGGTGCCAGG**GCG**AACAAAGGGCTGGTGG	Forward primer for creating K126A
oCM204	CCACCAGCCCTTTGTTCGCCCTGGCACCTCTG	Reverse primer for creating K126A
oCM170	AGAGGTGCCAGGAAG**GGC**AAAGGGCTGGTGGTC	Forward primer for creating N127G
oCM171	GACCACCAGCCCTTTGCCCTTCCTGGCACCTCT	Reverse primer for creating N127G
oCM172	AGAGGTGCCAGGAAG**GAC**AAAGGGCTGGTGGTC	Forward primer for creating N127D
oCM173	GACCACCAGCCCTTTGTCCTTCCTGGCACCTCT	Reverse primer for creating N127D
oCM148	GGGCTGGTGGTCTCT**GCT**TACGATTATAATCATAAGCGTGTT	Forward primer for creating P134A
oCM149	GACCACCAGCCCTTTGTCCTTCCTGGCACCTCT	Reverse primer for creating P134A
oCM205	CAAAGGGCTGGTGGTCTCTCCATAC**GCTGCT**AATCATAAGCGTGTTTC	Forward primer for creating D136A Y137A
oCM206	GAAACACGCTTATGATTAGCAGCGTATGGAGAGACCACCAGCCCTTTG	Reverse primer for creating D136A Y137A