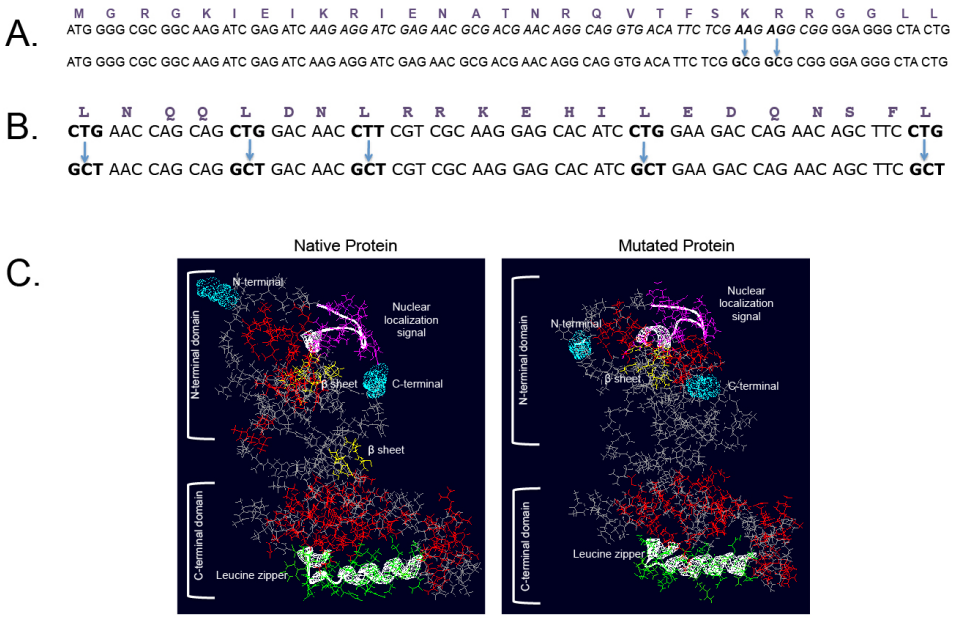


Figure S1. Representation of mutated motifs in MADS29 domains for studying their importance in homo dimer localization and dimerization (A) Mutation of lysine and arginine to alanine in the NLS (B) Leucine to alanine mutation in leucine zipper present in IKC domain (C) Comparison of native protein and mutated (Leucine zipper) protein modeled using web based I-TASSER prediction program.

Table S1: List of primers used for DNA amplification/sequencing

| Gene ID/ Primer name | Forward Primer (5' to 3') | Reverse Primer (5' to 3') |
|---|---|---|
| M13 (TOPO) (for sequencing) | GTAAAACGACGGCCAG | CAGGAAACAGCTATGAC |
| M29ΔMADS | CACCATGTACCAGACCGTCACCAACACTCAT | |
| M29ΔKC | | ATGAGTGTTGGTGACGGTCTGGTA |
| M29MutLZ | CATCAGCTCGCTAACCAGCAGGCTGACAACGCTC GTCGCAAGGAGCACATCGCTGAAGACCAGAACAG CTTCGCTTGCCGCATG | CATGCGGCAAGCGAAGCTGTTCTGGTCTTCA GCGATGTGCTCCTTGCGACGAGCGTTGTCAG CCTGCTGGTTAGCGAGCTGATG |
| M29Mut NLS | ACATTCTCGGCGGCG CGGGGAGGG | CCCTCCCCGCGCCGCCGAGAATGT |
| OsMADS27cds | CACCATGGGGAGGGGGAAGATTGTGATCC | TGGATTCAACTGTAACCCTAGCTTA |
| OsMADS14cds | CACCATGGGGCGGGGCAAGGTGCAGCTG | CATAACAATGGAAAATTGCCAT |
| OsMADS15cds | CACCATGGGAGAGGATCT AGAATCCCTG | AGCATTGAGGTGGCTCAG CATCCAT |
| OsMADS16cds | CACCATGGGGAGGGGCAAGATCGAGATC | ACCGAGGCGCAGGTCGTGGTTGCCG |
| OsMADS17cds | CACCATGGATCGATCAGA GATGGGGAGG | GAGGGGCCATCCCATCACAAAGTT |
| OsMADS18/28cds | CACCATGGGGAGAGGGCCGGTGCAGCTGC | TGTGTGACTTGTCCGGAG CATCCAT |
| OsMADS1cds | CACCATGGGGAGGGGGAAGGTGGAGCTG | TATCCAGCCGGATGGGAT GTGTT |
| OsMADS22cds | CACCATGGCGCGGGAGAGGCGGGAGATA | CTTCCATGCACC ACA AGG CAG CCC |
| OsMADS25cds | CACCATGGGGAGAGGGAAGATTGCCATC | TTCATCTTCAACTTCTTTTTGACTC |
| OsMADS26cds | CACCATGGCGCGAGGCAAGGTGCAGCTC | GAAGGAATAGCCCATCTC CGAG |
| OsMADS30cds | CACCATGGGGCAAGGGAAGATCGAGATGA | TATAAACCAGAATCGCCA AG |
| OsMADS31cds | CACCATGGGGCGTGGGAGAGTAGAGCTCA | AAACTTGATTATTTCAATATAGTGT |
| OsMADS32cds | CACCATGGGGAGGGGGCGCAGCGAGATAA | GTTGAACCCCAGTTTAAGGTCCAAG |
| OsMADS33cds | CACCATGGTCAGAGGAAA GGTGCAAATGC | TGAGAAGAAGCGATTTCC GTAGGTC |
| OsMADS34cds | CACCATGGGGCGAGGCAAGGTGGTGCTT | TTCCTGATAGTTGTTCTGCATCTCA |
| OsMADS37cds | CACCATGGAGGGAGGAGGGAGGAGGAGG | AGAGCTCACTCCTGATCT TGGCTC |
| OsMADS3cds | CACCATGATGAACATGATGACCGATCTG | GGCAAGCCGAGTTAGACT GTTTG |
| OsMADS4cds | CACCATGGGGCGCGGCAAGATCGAGAT | CTTCTCCTGCTGGAGGTT GGGGT |
| OsMADS50cds | CACCATGGTGCGGGGGAAGACGCAGATGAA | AGAATGGGGCATCGCTTG GCTATCT |
| OsMADS55cds | CACCATGGCGAGGGAGAGGAGGGAGATA | AGGCAACCCTAGTTTCAG GGATAT |
| OsMADS56cds | CACCATGGTGCGGGGGAGGACGGAGCTGA | ACCTGTCTCCGACCGGTT GGAGGA |
| OsMADS5cds | CACCATGGGGCGAGGGAAAGTAGAGCTGA | TTGGTTGAGGTGATCCAT GTAAGC |
| OsMADS60cds | CACCATGGAAAAGGCCGCGGCCAATCAGG | TATCTCTCTGTAAAGGTTGAGCCTG |
| OsMADS65cds | CACCATGGCGCGGAGGGGGAGAGTGCAG | TGCACTTCCTTCCTCCTG CCCCCTA |
| OsMADS66cds | CACCATGCACATATACAA AGAGCAGGAGGC | GTATACCTGGGCATTGAT CTCTGCA |
| OsMADS6cds | CACCATGGGGAGGGGAAGAGTTGA | AAGAACCCATCCCAGCAT GAAGTT |
| OsMADS7/45cds | CACCATGGGGAGGGGTCGGGTGGAGCTGA | TGGTAGCCATGGGGGCATGTAGGTGTT |
| OsMADS8/24cds | CACCATGGGGAGAGGGAGGGTGGAGCTG | GGGTAGCCATGTCGGCAT GAAGGCA |
| OsMADS13cds | CACCATGGGGAGGGGCAGGATTGAGA | GAAGTGAGGAGGCGGCGCGTCGG |
| OsRR14cds | CACCATGGCTCGCAAGATGATC ATGGTG | AGCAAGTCTAAATTTGGC AAGGATGACTC |
| OsMADS21cds | CACCATGGGGAGGGGGAAGATTGAGATAAAGAGA | GCCTTTGCCGGAGTCGAC CTTGAA |
| OsMADS29cds | CACCATGGGGCGCGGCAAGAT | CCACAGCTGCAGGCCGTG |