**Table S1. Primers for library construction.**

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| Primers for PCR assembly of EETI-II libraries. Restriction sites are underlined. |
| Forward: |
| 5’-GCTAGCGGTTGTCCACAAGGTAGAGATGGTTGGGCTCCAACTTCTTGTTCTCAAGATTCTGATTGTTTGGCTGGTTGT-3’ |
| Reverse: |
| XXXRGDXXX 5’-GGATCCAGAACCACCACCACASNNSNNSNNATCACCTCTSNNSNNSNNACAAACACAACCAGCCAAACAATCAGA-3’ |
|  |
| XXXRGDXXXX 5’-GGATCCAGAACCACCACCACASNNSNNSNNSNNATCACCTCTSNNSNNSNNACAAACACAACCAGCCAAACAATCAGA-3’  |
| XXXRGDXXXXX 5’-GGATCCAGAACCACCACCACASNNSNNSNNSNNSNNATCACCTCTSNNSNNSNNACAAACACAACCAGCCAAACAATCAGA-3’ |
|  |
| Primers for amplification of assembly products and homologous recombination in yeast. Restriction sites are underlined. Note that an extra Gly-Gly-Ser was added before the C-terminal c-myc tag to help reduce steric hindrance.  |
| Forward:  |
| 5’-TGGTGGTTCTGGTGGTGGTGGTTCTGGTGGTGGTGGTTCTGCTAGCGGTTGTCCACAAGG-3’ |
| Reverse: |
| 5’-CGAGCTATTACAAGTCCTCTTCAGAAATAAGCTTTTGTTCGGATCCAGAACCACCACCACA–3’ |