**Table S2. Primers used in this study.**

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| Primers | Sequence |
| HapX\_F | GGATCTAGATCTAGCAACCTTGCGGACTCTGATGG |
| HapX\_R | TACCGCGGATCCCGGGATTCGTTCGATTCTTCGCCTCT |
| ConfirmF\_HapX | CCTCCGAGTGCCTTGTCTTTGTGGC |
| Cir1\_full\_F | GGATCTGCTAGCCCCGAAACGAATACCTCCGCG |
| Cir1\_full\_R | GGATCTGGATCCTCAACTCCTAACGTCAAAACTCCACAAC |
| HapX\_F\_BamHI | GGATCTGGATCCATGTCCGTTGCTGTCTCCGCAC |
| HapX\_R\_HindIII | GAGTCTAAGCTTTCACGGGATTCGTTCGATTCTTCGCCTCT |
| Cir1\_F | GGACCCTTTTATTTATGACCTTGCGGCG |
| Cir1\_R\_KpnI | AGATCCGGTACCACTCCTAACGTCAAAACTCCACAAC |
| NATterm2F | CTTCATGGCTCCTTGTCTCTGAAACC |
| CFO1\_IN F | AGTATCCCGTTCTCGAACAACGTGAC |
| CFO1\_IN R | ATCTAGGATGTAAGGGGTAGCAGGTG |
| EMSA\_CFO1\_F | AGATTGGTGGGACCATAGATCGGTAAGG |
| EMSA\_CFO1\_R | GCACCGAAGCATGAGTTTCGATCAAAGC |
| EMSA\_CCP1\_F | CGAGTAGTGTCAAAAGTGGGCG |
| EMSA\_CCP1\_R | ATATGAACAATGAGGGGGGGGCCAAGTAT |
| M13-F | CACGACGTTGTAAAACGACGGCCAG |
| M13-R | CAGGAAACAGCTATGACCATGATTACG |
| NATstart2 | GCCACTCGAATCCTGCATGCTTAT |
| NATterm2F | CTTCATGGCTCCTTGTCTCTGAAACC |
| NAT-up | CGACTCACTATAGGGCGAATTGGGC |
| Muta\_CCP1\_R | TCGGCGACATATCAACTTAGCCT |
| Fusion\_F | CGCGTGAATCACAAGGCTAAGTTG |
| Final\_R | TTGGTAGAATCGTGCTCGGTCC |
| CCP1\_F\_re | GCCGTTACTAGTGGATCCCGTTAAGCGACATCCCATGTTGTG |
| CCP1\_R\_re | CATGATTACGCCAAGCTTAGCTTCACGCACTACCGTATCAGC |
| qRT\_TEF2\_F | TCGCCCGATGGTACATCTAGTAT |
| qRT\_TEF2\_R | TGCCCGGGTGTATCAATGA |
| qRT\_CCP1\_F | TCAGGCGGCCCTACCA |
| qRT\_CCP1\_R | GAGCGGCGTATCCGTCAA |
| Hap2\_Nde1\_F | GGATCT CATATG GCAGCCTCCCTCCCCATCTTCCA |
| Hap2\_HindIII\_R | AGATCCAAGCTTTTACGCAGAGGCTTGGGCCGCAT |
| Hap3\_ Nde1\_F | GGATCTCATATGTCAGAACATACAAATCTCAAGAACCTTGC |
| Hap3\_ HindIII\_R | AGATCCAAGCTTCTATCGCACACCTTGTGCGTCA |
| Hap5\_ Nde1\_F | GGATCTCATATGAACCCCTCCTACTTCCTCCCGT |
| Hap5\_ HindIII\_R | AGATCCAAGCTTCTAATCCCCCTGTACATACTCGC |