Table S1: Primers used in this study:

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| Primers | Sequence (5'-3') | Used for |
| SABP1\_primer F | ATGTCTGGCAACAACCCGT | To amplify coding sequence of SABP1 |
| SABP1\_primer R | TCACTTCTTAGCTGGGACAAAG |
| RH, KO-PCR1 F | GACGGCATTCAAAGATTACAG | To examine the integration at 5'-UTR of SABP1 locus |
| RH, KO-PCR1 R | GTCGTGGATTTACCAGTCATG |
| RH, KO-PCR2 F | CACACAGTCTCACCTCGCCT | To examine the integration at 3'-UTR of SABP1 locus |
| RH, KO-PCR2 R | TGCTGAACGGCTCTGTGTG |
| RH, KO-PCR3 F | ATGTCTGGCAACAACCCGT | To check if genomic sequence of SABP1 was deleted by DHFR |
| RH, KO-PCR3 R | TCACTTCTTAGCTGGGACAAAG |
| KO, C-PCR4 F | CTTGTCCCTGGGTGTTTC | To test the integration at 5'-UTR of UPRT locus |
| KO, C-PCR4 R | CCTGTTCTGCGATGAGC |
| KO, C-PCR5 F | TGAGTTGTTCCGCTGTG | To test the integration at 3'-UTR of UPRT locus |
| KO, C-PCR5 R | GTCTCCGGTGGAATGAA |
| KO, C-PCR6 F | CATCATCACGAGGTAATCC | To check if genomic sequence of UPRT was replaced by SABP1 |
| KO, C-PCR6 R | GCAGTCGCACAGAAACAT |
| KO, C-PCR7 F | GGCAAAATGTCTGGCAACAACCCG | To check if coding sequence of SABP1 was inserted at UPRT locus |
| KO, C-PCR7 R | CTTCTTAGCTGGGACAAAGCT |