Supplementary file 2. PCR primers used in this study.

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| primer | description | Sequence (5'-3') |
| Focused-NGS-1F | 1st round PCR of NGS library for focused screen | CCTATTTTCAATTTAACGTCG |
| Focused-NGS-1R | 1st round PCR of NGS library for focused screen | CTAGCCTTATTTTAACTTGC |
| Focused-NGS-2F | 2nd round PCR of NGS library for focused screen | CCTACACGACGCTCTTCCGATCT-(N)n-(B)6-CCTATTTTCAATTTAACGTCG |
| Focused-NGS-2R | 2nd round PCR of NGS library for focused screen | CTAGCCTTATTTTAACTTGC |
| Focused-NGS-3F | 3rd round PCR of NGS library for focused screen | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT |
| Focused-NGS-3R | 3rd round PCR of NGS library for focused screen | CAAGCAGAAGACGGCATACGAGATCTAGCCTTATTTTAACTTGC |
| WGS-NGS-1F | 1st round PCR of NGS library for genome-wide screen | CCTATTTTCAATTTAACGTCG |
| WGS-NGS-1R | 1st round PCR of NGS library for genome-wide screen | ATATGCTTTATTGACAGAAAATTTGATG |
| WGS-NGS-2F | 2nd round PCR of NGS library for genome-wide screen | CCTACACGACGCTCTTCCGATCT-(N)n-(B)6-CCTATTTTCAATTTAACGTCG |
| WGS-NGS-2R | 2nd round PCR of NGS library for genome-wide screen | ATATGCTTTATTGACAGAAAATTTGATG |
| WGS-NGS-3F | 3rd round PCR of NGS library for genome-wide screen | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT |
| WGS-NGS-3R | 3rd round PCR of NGS library for genome-wide screen | CAAGCAGAAGACGGCATACGAGATATATGCTTTATTGACAGAAAATTTGATG |
| q*Jon25Biii*-F | qPCR primer for *Jon25Biii* | CAAGCTGGTGGGAGTTAGCA |
| q*Jon25Biii*-R | qPCR primer for *Jon25Biii* | GGTCACGGATCCAGTCCAAG |
| q*Sdr*-F | qPCR primer for *Sdr* | CGGCTACTTCCAGACGCTAC |
| q*Sdr*-F | qPCR primer for *Sdr* | TGGCCACCAGTGAAGAAGA |
| q*CG9877*-F | qPCR primer for *CG9877* | GCGAGCTGCTATCGTGTTTG |
| q*CG9877*-R | qPCR primer for *CG9877* | CCTCCGAAGCCACCATATCC |
| q*CG13538*-F | qPCR primer for *CG13538* | GTTGGCCGATGAATTTGAAACG |
| q*CG13538*-R | qPCR primer for *CG13538* | ATCAGCCGATTGCGATACTTC |
| q*CG8468*-F | qPCR primer for *CG8468* | CTGATGGCAGAGTTCGGTGTG |
| q*CG8468*-R | qPCR primer for *CG8468* | CATGGCACTAACAAAGGGTCC |
| q*CG5399*-F | qPCR primer for *CG5399* | AGTGCGATCATCTGCCTGG |
| q*CG5399*-R | qPCR primer for *CG5399* | TTGTGGCGTTGTTTGGGCT |
| q*CG9932*-F | qPCR primer for *CG9932* | TTGCCGTTGTGAACAGCGT |
| q*CG9932*-R | qPCR primer for *CG9932* | CGCTTGATCTTGCATTGCGG |