**Table S1** Barcode primers used for multiplexed Ion Torrent sequencing

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| --- | --- | --- | --- | --- |
| **Primer Name** | **Forward primer (Primer A-key) (30)** | **Ion Barcode (12)** |  | **Template specific sequence-3' (17)** |
| PGM\_V3\_1 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | GATCTGCGATCC | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_2 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CAGCTCATCAGC | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_3 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CAAACAACAGCT | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_4 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | GCAACACCATCC | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_5 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | GCGATATATCGC | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_6 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CGAGCAATCCTA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_7 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | AGTCGTGCACAT | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_8 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | GTATCTGCGCGT | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_9 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CGAGGGCCCGTC | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_10 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CAAATTCGGCAT | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_11 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | AGATTGACCAAC | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_12 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | AGTTACGAGCTA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_13 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | GCATATGCACTG | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_14 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CAACTCCCGTGA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_15 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | TTGCGTTAGCAG | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_16 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | TACGAGCCCTAA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_17 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CACTACGCTAGA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_18 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | TGCAGTCCTCGA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_19 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | ACCATAGCTCCG | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_20 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | TCGACATGTCTT | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_21 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | GAACACTTTGGA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_22 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | CAGCCATCTGTA | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_23 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | TTGGGTACACGT | GT | CCTACGGGAGGCAGCAG |
| PGM\_V3\_24 | CCATCTCATCCCTGCGTGTCTCCGACTCAG | AAGGCGCTCCTT | GT | CCTACGGGAGGCAGCAG |
|  | **Reverse primer (Primer P1-key) (23)** |  |  |  |
| PGM\_V3\_Rev | CCTCTCTATGGGCAGTCGGTGAT | none | CC | ATTACCGCGGCTGCTGG |