Elected to order:

* 2 primer sets that had a max temperature of 40C that were the best two sets when scored/ordered by fg\_dist\_mean
* 1 primer set that had a max temperature of 30C that was the best set when scored/ordered by fg\_dist\_mean
* Order 1 primer set the best when scored by Erik Clarke’s default scoring mechanism when max temperature was scored at 40C
  + Eric Clarke Personal communication says primers up to 45 are OK. Based on previous experience with Pf SWGA round 1, the fg\_dist\_mean mattered most

|  |  |
| --- | --- |
| **Set Name** | **primers** |
| **Pv\_HuPf\_S4** | **CGAAATGTA,CGAATACG,CGATAACG,CGATTACG,TATTTTTACG,TTTTTTTACG** |
| **Pv\_HuPf\_S10** | **ATATACGA,ATATTTCG,ATTATTCG,CGATTATT,CGATTTAT,TATTTACG** |
| **Pv\_HuPf\_S13** | **ATTTTTTACG,CGAAATGTA,CGAATACG,CGATAACG,CGATTACG,CTTTTACGA,GACGAAATA,TACGAATTG,TTATGTACG,TTTATACGC,TTTTACGAG,TTTTTTTACG** |
| **Pv\_HuPf\_S14** | **ATTTTTTACG,CGAAATGTA,CGAATACG,CGATAACG,CGATTACG,CTTTTACGA,GACGAAATA,TACGAATTG,TTATGTACG,TTTTACGAC,TTTTACGAG,TTTTTTTACG** |

Ordered 16 Unique Primers for Pvivax (foreground) with Human + Pf3D7 (background) for SWGA

|  |  |
| --- | --- |
| Pv\_HuPf\_P1 | CGAAATGTA |
| Pv\_HuPf\_P2 | ATATACGA |
| Pv\_HuPf\_P3 | ATTTTTTACG |
| Pv\_HuPf\_P4 | GACGAAATA |
| Pv\_HuPf\_P5 | TTTTTTTACG |
| Pv\_HuPf\_P6 | TTTTACGAG |
| Pv\_HuPf\_P7 | TTTATACGC |
| Pv\_HuPf\_P8 | TTTTACGAC |
| Pv\_HuPf\_P9 | TTATGTACG |
| Pv\_HuPf\_P10 | TACGAATTG |
| Pv\_HuPf\_P11 | CGAATACG |
| Pv\_HuPf\_P12 | ATATTTCG |
| Pv\_HuPf\_P13 | CGATAACG |
| Pv\_HuPf\_P14 | ATTATTCG |
| Pv\_HuPf\_P15 | CGATTACG |
| Pv\_HuPf\_P16 | CGATTATT |
| Pv\_HuPf\_P17 | TATTTTTACG |
| Pv\_HuPf\_P18 | CGATTTAT |
| Pv\_HuPf\_P19 | TATTTACG |
| Pv\_HuPf\_P20 | CTTTTACGA |

*With phosphodiesterase bond:*

|  |  |
| --- | --- |
| Pv\_HuPf\_P1 | CGAAATG\*T\*A |
| Pv\_HuPf\_P2 | ATATAC\*G\*A |
| Pv\_HuPf\_P3 | ATTTTTTA\*C\*G |
| Pv\_HuPf\_P4 | GACGAAA\*T\*A |
| Pv\_HuPf\_P5 | TTTTTTTA\*C\*G |
| Pv\_HuPf\_P6 | TTTTACG\*A\*G |
| Pv\_HuPf\_P7 | TTTATAC\*G\*C |
| Pv\_HuPf\_P8 | TTTTACG\*A\*C |
| Pv\_HuPf\_P9 | TTATGTA\*C\*G |
| Pv\_HuPf\_P10 | TACGAAT\*T\*G |
| Pv\_HuPf\_P11 | CGAATA\*C\*G |
| Pv\_HuPf\_P12 | ATATTT\*C\*G |
| Pv\_HuPf\_P13 | CGATAA\*C\*G |
| Pv\_HuPf\_P14 | ATTATT\*C\*G |
| Pv\_HuPf\_P15 | CGATTA\*C\*G |
| Pv\_HuPf\_P16 | CGATTA\*T\*T |
| Pv\_HuPf\_P17 | TATTTTTA\*C\*G |
| Pv\_HuPf\_P18 | CGATTT\*A\*T |
| Pv\_HuPf\_P19 | TATTTA\*C\*G |
| Pv\_HuPf\_P20 | CTTTTAC\*G\*A |