

Heterogeneous genetic diversity pattern in *Plasmodium vivax* genes encoding merozoite surface proteins (MSP) -7E, -7F and -7L

Additional file 2 Genetic distance between *pcmsp-7B*, *pcmsp-7E* and *pvmsp-7B*, *pvmsp-7E* sequences from 5 *P. vivax* isolates.

| Sequence 1 | Sequence 2 | Dist | Std. Err | Sequence 2 | Dist | Std. Err |
|-----------------|-----------------|-------|----------|---------------|-------|----------|
| | <i>pcmsp-7E</i> | 0.202 | 0.011 | - | - | - |
| <i>pcmsp-7B</i> | Sal-IB | 0.216 | 0.011 | Sal-IE | 0.282 | 0.014 |
| | Brazil-IB | 0.216 | 0.011 | Brazil-IE | 0.284 | 0.014 |
| | India-VIIB | 0.216 | 0.011 | India-VIIE | 0.279 | 0.013 |
| | Mauritania-IB | 0.212 | 0.011 | Mauritania-IE | 0.281 | 0.014 |
| | North KoreanB | 0.212 | 0.012 | North KoreanE | 0.296 | 0.014 |
| <i>pcmsp-7E</i> | Sal-IB | 0.292 | 0.013 | Sal-IE | 0.207 | 0.013 |
| | Brazil-IB | 0.292 | 0.013 | Brazil-IE | 0.214 | 0.013 |
| | India-VIIB | 0.300 | 0.013 | India-VIIE | 0.206 | 0.013 |
| | Mauritania-IB | 0.285 | 0.014 | Mauritania-IE | 0.220 | 0.012 |
| | North KoreanB | 0.307 | 0.015 | North KoreanE | 0.219 | 0.013 |
| Sal-IB | Sal-IE | 0.211 | 0.011 | - | - | - |

The number of nucleotide differences per site was estimated as well as the standard error regarding the *pvmsp-7E* and *pvmsp-7B* reference sequences and the *pcmsp-7E* and *pcmsp-7B* sequences.