**Supplementary File 1:** Oocyst and sporozoite production and sporozoite characteristics (motility, traversal, hepatocyte invasion) of the *P. berghei* mutantsPb∆*slarp* andPb∆*b9*∆*slarp*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parasite** | **Oocyst no.a** | **Sporozoite no.b** | **Gliding motilityc** | **Cell traversald** | **Hepatocyte invasione** |
|  | **Mean ± sd** | **Mean ± sd** | **Mean ± sd** | **Mean ± sd** | **Mean ± sd** |
|  |  |  |  |  |  |
| PbWT (GFP-Luccon) | 204 ± 113 | 98K ± 26K | 70.3 ± 9 | 19.9 ± 2.5 | 42.3 ± 8.2 |
| PbΔ*slarp* | 221 ± 61 | 88K ± 16K | 76 ± 10 | 21.7 ± 1.3 | 39.3 ± 3.1 |
| PbΔ*b9Δslarp* | 176 ± 131 | 104K ± 30K | 69 ± 4 | 24.1 ± 2.6 | 43.5 ± 4.2 |
| a Mean number of oocysts per mosquito | | |  |  | |  |
| b Mean number of sporozoites per salivary gland | | |  |  | |  |
| c percentage of sporozoites that show gliding motility. | | | |  | |  |
| d Percentage of dextran positive hepatocytes | | |  |  | |  |
| e Percentage of intracellular sporozoites at 3 hours post infection of hepatocytes | | | | | |  |