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| **Table S1. Primers used for molecular generation of *L. major* FV1 mutants** |
| primers to confirm *L. major* FV1 *lpg1-* & FV1 *lpg1-/+LPG1* |
| SMB 1023 | AGATCTCGGGTCTGGCACGTTTTTCAGCG |
| SMB 1626 | TAATACCGGTGACGATGGATTA |
| SMB 4183 | GCCTTTCTTCTCCGACCCTTCTGA |
| SMB 1568 | TTAGATGGATCCTCAGGCACCGGGCTTGCG |
| SMB 1569 | TATGATACTAGTATGACCGAGTACAAGCCCAC |
| SMB 4184 | CCGCTGCACGTGAGGGTTCTGT |
| SMB 2889 | ACCGTGGGCTTGTACTCGG |
| SMB 2888 | ACGTCGAGTGCCCGAAGGAC |
| SMB 2891 | GGAGGACCCGGGCCACCATGAAAAAGCCTGAACTCACCG |
| SMB 2892 | GGAGGATCTAGACTATTCCTTTGCCCTCGGACGA |
| SMB 2566 | GAAAGCACGAGATTCTTCGC |
| SMB4185 | GCGACATCGAACAGGACGGAATAG |
| SMB 2567 | CGTTGGCTACCCGTGATATTGC |
| SMB 2728 | TCAGAAGAACTCGTCAAGAAGG |
| primers used to construct plasmid B6598 |
| SMB 4120 | AAGCTTCGTCGACGTGTGCACTCCTCTC |
| SMB 4121 | CGTCAGCCCGCACCGTTACCGACAGTTGCTGATGCAATTCTTTCGG |
| SMB 4122 | GCACCTTACGTGGGATCTCGCACCGTTGTTAGCCGCAGTCGTAG |
| SMB 4123 | CTCGAGGTTACAGCAATGCGCCCACTCA |
| SMB 4077 | GGTAACGGTGCGGGCTGACGCCACCATGAAGATTTCGGTGATCCCTG |
| SMB 4078 | CGAGATCCCACGTAAGGTGCTTAGGCGTCATCCTGTGCTCCC |
| primers to confirm *L. major* FV1 *lpg2-* and FV1 *lpg2-/+LPG2* |
| SMB 2527 | GCGCGGATCC ATGAACCACACTCGCGCTGTCATGGAGG |
| SMB 2528 | GCCCAAGCTTCTACTCAGATTTGAAGTTGTCACTGCTG |
| SMB 4124 | GGCGACGTTCTCTTCTCTTGTATC |
| SMB 3506 | CATCCCCGGGATGAAGATTTCGGTGATCCCTG |
| SMB 3507 | CATCCCCGGGTTAGGCGTCATCCTGTGCTCCC |
| SMB 4417 | TCACAGAACCAAACCGCC |
| SMB 2891 | GGAGGACCCGGGCCACCATGAAAAAGCCTGAACTCACCG |
| SMB 2892 | GGAGGATCTAGACTATTCCTTTGCCCTCGGACGA |
| SMB 2566 | GAAAGCACGAGATTCTTCGC |
| SMB 2565 | AATACGAGGTCGCCAACATC |
| SMB 4125 | GCACGACGCCCACATCC |
| SMB 2559 | GGTAACGGTGCGGGCTGACGCCACCATGGGATCGGCCATTGAACAAG |
| SMB 2560 | CGAGATCCCACGTAAGGTGCTCAGAAGAACTCGTCAAGAAGG |