**Additional file 1**

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| **Table S1** **SIVsab92018WT and SIVmac239 overlapping peptide envelope regions** | | | | |
|  | **SIVsab92018WT** | | **SIVmac239** | |
| **Envelope region** | **Number of peptides (Peptide ID)** | **Peptide sequence** | **Number of peptides (Peptide ID)** | **Peptide sequence** |
| C1 | 15 (6-20) | IPVWKNSSVQAFCKTPNTNLWASTNCIPDDEPEGTIAEVPIPNITEKFDAWKNRN | 15 (6-20) | VPAWRNATIPLFCATKNRDTWGTTQCLPDNGDYSEVALNVTESFDAWNN |
| V1 | 13 (27-39) | CYRLEGGAATTKTPSTTTARPEVVSVGYNDSVIEKEMEKEQAMN | 15 (27-41) | CNKSETDRWGLTKSITTTASTTSTTASAKVDMVNETSSCIAQDNCTGLEQEQMIS |
| V2 | 12 (40-51) | SFAMAGYRRDVKKNYSTVWDDQEVVCEEGREKSNATNTVGCYMIHC | 11 (42-52) | KFNMTGLKRDKKKEYNETWYSADLVCEQGNNTGNESRCYMNHC |
| V3 | 11 (75-85) | CRRPGNKTVLPVTIMAGLVFHSQKYNTRLKQAWC | 11 (76-86) | CRRPGNKTVLPVTIMSGLVFHSQPINDRPKQAWC |
| V4 | 12 (98-109) | CKMDWFLNYLNNQSVDPDHNPCNKTGDKKCWQRTYVPC | 10 (99-108) | CKMNWFLNWVEDRNTANQKPKEQHKRNYVPC |
| V5 | 4 (117-120) | FDSNSR | 4 (116-119) | WIDGNQ |
| Gp120 other | 77 |  | 78 |  |
| Fusion domain | 6 (130-135) | VPFVLGFLGFLGAAG | 6 (130-135) | GVFVLGFLGFLATAG |
| Gp41 immuno-dominant region | 7 (149-155) | EDQARLNIWGCAFRQVCHTT | 7 (149-155) | KDQAQLNAWGCAFRQVCHTT |
| Trans-membrane givregion | 7 (172-178) | AIMVIAGIIIARILFVIISL | 7 (172-178) | GVYIVVGVILLRIVIYIVQM |
| Cytoplasmic tail | 43 (179-221) |  | 40 (179-218) |  |
| Gp41 other | 29 |  | 29 |  |
|  | Total = 221 |  | Total =218 |  |