**SUPPLEMENTARY INFORMATION**

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| Supplementary Table 1 | Antigens used in the Fc Array, organized by protein/peptide source. |
| **Immune-Tech** | **Duke PPF** | **NIH AIDS Reagents** | **Mymetics** |
| gp41 HxBc2 | B.6240 gp140C/293F | gp140 BR29 | P1-PE synthetic lipopeptide |
| gp120 JRCSF | C.CH505TF gp140/293F |  | MYM-41-M0 truncated recombinant protein (rgp41) |
| gp120 MN | C3347\_11 gp140C.avi |  |  |
| gp120 PVO | CNE5 gp140C.avi/293F |  |  |
| gp140 Du151 | QH0515.gp140C.avi |  |  |
| HIV-1 gp41 MN (*E.coli*) | 9004S gp140C.avi |  |  |
| gp120 SHIVSF162P3 |  |  |  |
| gp140 SHIVSF162P3 |  |  |  |
| HA1(A/Memphis/1/1987(H1N1)) |  |  |  |
| HIV-1 gp41 ectodomain |  |  |  |
| gp140 SF162 |  |  |  |

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| Supplementary Table 2 | Reagents used to characterize the Fc domains of antibodies in the Fc Array. |
| Antibodies/Complement |  aRh IgG | aHu IgA\* | C1q |  |  |  |
| Human FcγR | FcγRIIAH | FcgRIIAR | FcgRIIB | FcgRIIIAF | FcgRIIIAV | FcgRIIIB NA1 |
| Rhesus FcγR | rFcγR2A-4  | rFcgR2A-3 | rFcgR2A-2 | rFcgR2B-1 | rFcgR3A-1 |  |
| \*Note that the anti-Hu IgA antibody (aHu IgA) from Southern Biotech was evaluated and found to be both cross-reactive with rhesus IgA and demonstrated improved signal as compared to specific anti-RhIgA detection antibodies tested. aRh IgG, anti-rhesus IgG.  |