**Supplemental Digital Content 1 - Table 1. Class I HLA alleles of the study population.**

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| --- | --- |
| **Subject** | **Class I HLA type** |
| **VRC vaccine recipients** |
| 054-021 | A02 | B13, B15 | C03, C06 |
| 054-042 | A02, A03 | B40, B58 | C03, C12 |
| 054-038 | A02, A03 | B18, B49 | C04, C07 |
| 054-043 | A02, A11 | B27, B51 | C02, C15 |
| 054-048 | A01, A02 | B44, B57 | C05, C06 |
| 054-011 | A01, A33 | B27, B14 | C02, C08 |
| 054-036 | A26, A31 | B15, B18 | C04, C07 |
| 054-035 | A24 | B55 | C03 |
| 054-005 | A03, A30 | **B18, B35PY** | C04, C05 |
| 054-044 | A01, A02 | B07, B52 | C07, C12 |
| 054-037 | A02 | B14, B58 | C07, C08 |
| 054-027 | A02, A24 | B15, B44 | C04, C05 |
| 054-022 | A03, A24 | **B35Px, B35PY** | C04 |
| 054-016 | A26, A29 | B44, B56 | C01, C16 |
| 054-030 | A03, A11 | B44, B07 | C02, C07 |
| 054-004 | A24, A68 | **B35Px, B35PY** | C04 |
| 054-032 | A02, A30 | B18, B57 | C05, C07 |
| 054-009 | A01, A68 | B08, B51 | C07, C14 |
| 054-034 | A29, A68 | B07, B14 | C08, C15 |
| 054-028 | A02, A03 | B41, B07 | C07, C17 |
| 054-006 | A01, A11 | B37, B07 | C06, C07 |
| 054-029 | A01, A03 | B08, B51 | C01, C07 |
| 054-013 | A25, A29 | B40, B44 | C03, C16 |
| 054-020 | A01, A02 | B49, B08 | C06, C07 |
| 054-002 | A01, A33 | B08, B14 | C07, C08 |
| 054-014 | A02, A03 | B57, B07 | C06, C15 |
| 054-026 | A02, A03 | B44, B51 | C02, C07 |
| 054-046 | A01, A02 | B08, B14 | C07, C08 |
| 054-045 | A02, A29 | **B27, B35Px** | C01, C04 |
| 054-047 | A03, A26 | B56, B08 | C01, C07 |
| 054-041 | A01, A03 | **B08, B35PY** | C04, C07 |
| 054-023 | A23 | B15, B08 | C02, C03 |
| 054-003 | A03, A11 | B27, B07 | C01, C07 |
| 054-001 | A11, A69 | B41, B52 | C12, C17 |
| 054-040 | A11 | **B35Px, B52** | C04, C12 |
| 054-019 | A02 | **B45, B35PY** | C15, C16 |
| 054-031 | A01, A02 | B50, B07 | C06, C07 |
| 054-007 | A02, A31 | B15, B44 | C03, C16 |
| 054-017 | A03, A25 | B18, B07 | C07, C12 |
| 054-015 | A24 | **B18, B35PY** | C04, C12 |
| **MRK-Gag vaccine recipients** |
| 050-025 | A01, A02 | B49, B08 | C07 |
| 050-105 | A01, A02 | B44, B57 | C05, C06 |
| 050-170 | A01, A02 | B52, B57 | C06, C12 |
| 050-266 | A01, A03 | B07, B08 | C07 |
| 050-209 | A01, A11 | **B27, B35Px** | C02, C04 |
| 050-197 | A01, A11 | **B35PY, B40** | C03, C04 |
| 050-284 | A01, A24 | B57, B39 | C06, C07 |
| 050-128 | A01, A29 | B08, B44 | C05, C07 |
| 050-049 | A01, A68 | **B14, B35Px** | C04, C08 |
| 050-302 | A01,A29 | B07, B51 | C04, C07 |
| 050-115 | A02 | B18, B57 | C06, C07 |
| 050-237 | A02 | **B35PY, B15** | C02, C04 |
| 050-324 | A02 | B27, B57 | C01, C06 |
| 050-096 | A02 | **B35PY, B15** | C01, C03 |
| 050-214 | A02, A03 | B07, B14 | C07, C08 |
| 050-272 | A02, A03 | B07, B14 | C07, C08 |
| 050-325 | A02, A03 | B40 | C03 |
| 050-017 | A02, A03 | **B40, B35PY** | C03, C04 |
| 050-280 | A02, A03 | B44, B14 | C07, C08 |
| 050-087 | A02, A03 | B15, B37 | C03, C06 |
| 050-007 | A02, A03 | B15, B53 | C03, C04 |
| 050-137 | A02, A11 | **B35PY, B40** | C03, C04 |
| 050-330 | A02, A11 | B46, B81 | C01, C08 |
| 050-278 | A02, A11 | B40, B44 | C03, C07 |
| 050-199 | A02, A11 | B13, B51 | C06, C15 |
| 050-076 | A02, A11 | B44 | C05, C16 |
| 050-326 | A02, A11 | **B35PY, B81** | C04, C18 |
| 050-264 | A02, A24 | B07, B44 | C05, C07 |
| 050-055 | A02, A24 | **B35Px, B18** | C04, C07 |
| 050-286 | A02, A24 | B13, B07 | C06, C07 |
| 050-109 | A02, A24 | **B18, B35PY** | C04, C07 |
| 050-006 | A02, A29 | **B07, B35PY** | C04, C07 |
| 050-279 | A02, A31 | B44, B51 | C05, C15 |
| 050-348 | A02, A33 | B15, B44 | C03, C07 |
| 050-044 | A02, A34 | B15 | C01, C04 |
| 050-065 | A02, A34 | B15, B44 | C03, C04 |
| 050-091 | A02, A34 | B44, NEW | C05, C08 |
| 050-008 | A02, A34 | B15, B44 | C03, C04 |
| 050-295 | A02, A68 | B15, B57 | C04, C06 |
| 050-328 | A02, A68 | B15, B40 | C03 |
| 050-271 | A02,A24 | B58 | C03 |
| 050-145 | A03 | B57, B07 | C06, C07 |
| 050-063 | A03, A03 | B07 | C07 |
| 050-315 | A03, A23 | B07, B81 | C07, C08 |
| 050-178 | A03, A24 | B07, B57 | C06, C07 |
| 050-238 | A03, A26 | **B08, B35PY** | C04, C07 |
| 050-249 | A03, A29 | B44, B58 | C03, C16 |
| 050-054 | A03, A32 | B07,B14 | C07, C08 |
| 050-152 | A03, A33 | **B49, B35PY** | C04, C07 |
| 050-099 | A03, A68 | B57, B53 | C04, C07 |
| 050-305 | A11, A23 | B15, B18 | C02, C12 |
| 050-258 | A11, A23 | **B07, B35PY** | C04, C07 |
| 050-341 | A11, A24 | **B27, B35PY** | C02, C04 |
| 050-243 | A11, A24 | B15 | C04, C08 |
| 050-261 | A11, A30 | B07, B42 | C07, C17 |
| 050-235 | A11, A30 | B44, B57 | C05, C18 |
| 050-159 | A11, A31 | B51, B46 | C01 |
| 050-346 | A11, A31 | B15, B51 | C07, C14 |
| 050-310 | A11, A33 | B15, B56 | C01, C12 |
| 050-075 | A11, A68 | **B35PY, B27** | C02, C04 |
| 050-276 | A23 | B49, B15 | C02, C07 |
| 050-111 | A23, A24 | **B35PY, B49** | C04, C07 |
| 050-229 | A23, A25 | B07, B08 | C07 |
| 050-090 | A23, A26 | B44, B55 | C03, C04 |
| 050-245 | A23, A29 | **B35PY, B53** | C04, C06 |
| 050-281 | A23, A30 | B15, B38 | C03, C04 |
| 050-161 | A24, A30 | **B35Px, B39** | C04, C12 |
| 050-029 | A24, A33 | B40, B44 | C03, C07 |
| 050-290 | A24, A33 | **B35Px, B54** | C08, C16 |
| 050-318 | A25, A32 | B44 | C05 |
| 050-224 | A26 | B38 | C12 |
| 050-135 | A26, A33 | B15, B58 | C03 |
| 050-206 | A29, A34 | B15, B27 | C04, C15 |
| 050-232 | A68 | **B35PY** | C04, C08 |