**Supplementary Table 1. Comparison of Cohort 1 and Cohort 2**

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|  | **Cohort 1****N=90** | **Cohort 2****N=566** | **p-value** |
| **Sex** Female | 45 (50.0) 1 | 321 (56.7) | 0.23 |
| **Race/ethnicity** |  |  |  |
| White, non-Hispanic | 88 (97.8) | 556 (98.2) | 0.76 |
| **Baseline mumps titers**Negative or low (<16 mIU/mL)  | 7 (7.8) | 36 (6.4) | 0.61 |
| **Mumps geometric mean titers (GMT)** Baseline 1 year post-MMR3 vaccine2 | 104.9136.6 |  104.0124.2 |  0.940.42 |
| **Age at enrollment** Mean age in years (range) | 20.9 (19- 28) | 20.8 (18-24) | 0.51 |

1. These are numbers and percents unless otherwise stated.

2. The GMT results at 1 year are from 612 subjects. The total number of subjects at 1 year was lower than at baseline because of dropouts.