|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Antigen name** | **Date** | A/BEIJING/32/1992 | A/BEIJING/32/1992 | A/WUHAN/359/1995 | A/WUHAN/359/1995 | A/SWINE/NEW YORK/A01104005/2011 | A/SWINE/NEW YORK/A01104005/2011 | A/SWINE/IOWA/A01480656/2014 | A/SWINE/IOWA/A01480656/2014 | A/SWINE/NEBRASKA/A01567651/2015 | A/SWINE/NEBRASKA/A01567651/2015 | A/SWINE/MINNESOTA/A01280592/2013 | A/SWINE/MINNESOTA/A01280592/2013 | **A/SWINE/NORTH CAROLINA/A02245294/2019** | **A/SWINE/NORTH CAROLINA/A02245294/2019** | A/SWINE/WYOMING/A01444562/2013 | A/SWINE/WYOMING/A01444562/2013 | A/SWINE/INDIANA/A01202866/2011 | A/SWINE/INDIANA/A01202866/2011 | **Antigenic Motif** | **H3 Clade** |
| A/BEIJING/32/1992 | 11.13.20 | **320** | **640** | 160 | 160 | 80 | 80 | 160 | 160 | 20 | 80 | 80 | 80 |  |  |  |  |  |  | NHKEYR | HuVac |
| A/BEIJING/32/1992 | 1.22.21 |  |  |  |  | 80 | 80 | 40 | 40 |  |  |  |  | 40 | 40 | 10 | 40 | 40 | 40 |
| A/WUHAN/359/1995 | 11.13.20 | 40 | 80 | **320** | **640** | 80 | 80 | 320 | 640 | 80 | 80 | 80 | 80 |  |  |  |  |  |  | KHKEYS | HuVac |
| A/WUHAN/359/1995 | 1.22.21 |  |  |  |  | 40 | 40 | 160 | 320 |  |  |  |  | 320 | 160 | 80 | 640 | 80 | 160 |
| A/SWINE/NEW YORK/A01104005/2011 | 11.13.20 | 20 | 80 | 40 | 40 | **1280** | **1280** | 320 | 320 | 80 | 80 | 1280 | 640 |  |  |  |  |  |  | NYNNYK | 1990.4.A |
| A/SWINE/NEW YORK/A01104005/2011 | 1.22.21 |  |  |  |  | **640** | **1280** | 160 | 80 |  |  |  |  | 320 | 1280 | 160 | 160 | 160 | 320 |
| A/SWINE/IOWA/A01480656/2014 | 11.13.20 | 10 | 40 | 160 | 320 | 640 | 640 | **1280** | **2560** | 40 | 20 | 640 | 320 |  |  |  |  |  |  | KYNNYK | 1990.4.A |
| A/SWINE/IOWA/A01480656/2014 | 1.22.21 |  |  |  |  | 320 | 320 | **640** | **1280** |  |  |  |  | 160 | 320 | 640 | 2560 | 160 | 160 |
| A/SWINE/NEBRASKA/A01567651/2015 | 11.13.20 | 20 | 160 | 40 | 40 | 640 | 320 | 320 | 160 | **2560** | **1280** | 320 | 160 |  |  |  |  |  |  | SYKNYK | 1990.4.A |
| A/SWINE/NEBRASKA/A01567651/2015 | 1.22.21 |  |  |  |  | 320 | 320 | 640 | 640 |  |  |  |  | 640 | 80 | 640 | 640 | 40 | 80 |
| A/SWINE/MINNESOTA/A01280592/2013 | 11.13.20 | 20 | 40 | 40 | 40 | 640 | 640 | 80 | 160 | 160 | 80 | **2560** | **2560** |  |  |  |  |  |  | NYHNYK | 1990.4.B |
| **A/SWINE/NORTH CAROLINA/A02245294/2019** | 11.13.20 | 20 | 80 | 40 | 40 | 640 | 320 | 160 | 160 | 80 | 40 | 1280 | 640 |  |  |  |  |  |  | NYHNYK | 1990.4.A |
| A/SWINE/NORTH CAROLINA/A02245294/2019 | 1.22.21 |  |  |  |  | 320 | 320 | 160 | 160 |  |  |  |  | **640** | **1280** | 80 | 160 | 80 | 160 |
| A/SWINE/WYOMING/A01444562/2013 | 1.22.21 |  |  |  |  | 320 | 320 | 640 | 640 |  |  |  |  | 160 | 320 | **1280** | **5120** | 1280 | 640 | KYNNYK | 1990.4.A |
| A/SWINE/INDIANA/A01202866/2011 | 1.22.21 |  |  |  |  | 40 | 80 | 80 | 40 |  |  |  |  | 40 | 80 | 10 | <10 | **2560** | **2560** | NYHGHE | 1990.4.C |
| **A/SWINE/OKLAHOMA/A01770191/2015** | 11.13.20 | 20 | 80 | 20 | 40 | 640 | 1280 | 80 | 80 | 160 | 40 | 1280 | 640 |  |  |  |  |  |  | NYNNYK | 1990.4.A |
| A/SWINE/OKLAHOMA/A01770191/2015 | 1.22.21 |  |  |  |  | 320 | 640 | 160 | 80 |  |  |  |  | 320 | 640 | 80 | 320 | 80 | 40 |
| **A/SWINE/MINNESOTA/A02266068/2018** | 11.13.20 | 20 | 40 | 20 | 20 | 640 | 640 | 160 | 160 | 80 | 40 | 640 | 640 |  |  |  |  |  |  | NYNNYK | 1990.4.A |
| A/SWINE/MINNESOTA/A02266068/2018 | 1.22.21 |  |  |  |  | 640 | 640 | 160 | 160 |  |  |  |  | 160 | 640 | 80 | 160 | 80 | 80 |

**Supplementary Table 1.** Results from a pair of hemagglutination inhibition (HI) assays performed on November 13, 2020 and January 22nd, 2021.