**Table S1**. Putative South American lineages inferred with maximum-likelihood trees based on different portions of the S1 coding region of all South American strains available in GenBank, including Brazilian (n=222), Argentine (n=19), Colombian (n=17), Chilean (n=9) and Peruvian (n=2) strains. South American genotype or cluster name assigned in original publication are shown in parentheses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S1 region analyzed\*** | **Collection year** | **Country** | **Putative South American lineage**  | **Reference** |
| 1-571 | 2002-2006 | Brazil | GI-11 (Brazilian strains group)  | Villarreal et al., 2007 |
| 720-1065 | 2007-2008 | Brazil | GI-1 (Massachusetts)GI-11 (Brazil)GI-13 (4/91-793B) | Villarreal et al., 2010 |
| 229-556 | 2003-2009 | Brazil | GI-1 (Massachusetts)GI-11 (Cluster D207) | Felippe et al., 2010 |
| 1-536 | 2003-2009 | Brazil | GI-11 (Genotype BR I)  | Chacón et al., 2011 |
| 1-567 | 2010-2011 | Brazil | GI-1 (Massachusetts)GI-11 (BRI and BRII) | Fraga et al., 2013 |
| 1-520 | 2011-2015 | Brazil | GI-1 (Massachusetts)GI-11 (BRI and BRII) | Carranza et al., 2017 |
| 1-528 | 1988-2000 | Brazil | GI-1GI-9GI-11 | Unpublished data (direct submission) |
| 50-540 | 2013 | Brazil | GI-1GI-11 | Unpublished data (direct submission) |
| 134-722 | 2001-2008 | Argentina | GI-1 (Massachusetts and Connecticut)GI-11 (Cluster B and C)GI-16 (Cluster A) | Rimondi et al., 2009 |
| 1 – 310 | 2003 | Colombia | GI-1 (Massachusetts and Connecticut)GI-16 (Genotype C)(Genotype A)(Genotype B)(Genotype D) | Alvarado et al., 2005 |
| 730-1075 | 2008-2010 | Chile | GI-1 (Massachusetts)GI-16 (Q1) | De Wit et al., 2017 |
| 79-705 | 2014 | Peru | GI-16 (A/SAII) | Tataje-Lavanda et al., 2016 |
| 739-1025 | 2013 | Peru | GI-16 | Unpublished data (direct submission) |

\* Oligonucleotide position according to IBV strain M41 sequence (AY851295)

**Supplementary References**

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