**Table 2:** Shared mutation in more than 2 individual’s virus genomes.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Reference Position of Wuhan Seafood Market Sample (bp)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  | **1** | **1** | **1** | **1** | **1** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **2** | **No. multi\_individual Variants** |  |
|  |  |  | **2** | **3** | **4** | **5** | **5** | **8** | **0** | **1** | **7** | **8** | **8** | **1** | **2** | **3** | **3** | **4** | **6** | **6** | **6** | **6** | **7** | **8** | **8** | **8** | **8** | **9** | **9** | **9** |  |
|  |  | **6** | **6** | **1** | **4** | **0** | **0** | **7** | **1** | **0** | **3** | **0** | **4** | **7** | **6** | **5** | **6** | **0** | **1** | **6** | **6** | **7** | **1** | **0** | **1** | **8** | **8** | **0** | **3** | **7** |  |
|  | **4** | **1** | **6** | **7** | **0** | **6** | **8** | **8** | **3** | **8** | **7** | **6** | **8** | **0** | **6** | **7** | **0** | **3** | **4** | **4** | **7** | **2** | **4** | **7** | **4** | **5** | **7** | **9** | **0** | **4** |  |
|  | **8** | **4** | **2** | **7** | **2** | **2** | **4** | **2** | **8** | **3** | **3** | **0** | **8** | **7** | **1** | **0** | **5** | **4** | **4** | **0** | **7** | **9** | **7** | **7** | **4** | **4** | **8** | **5** | **3** | **2** | **Pattern** |
| **Wuhan01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan02** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan03** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan04** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan05** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan06** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan07** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan08** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan09** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan10** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan11** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan12** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan13** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan14** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan15** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan16** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan17** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Wuhan18** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **2** | **P13** |
| **Wuhan19** | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P02** |
| **Wuhan20** | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P02** |
| **Wuhan21** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Yunnan01** |  |  |  |  |  |  |  | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **3** | **P21** |
| **China01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China02** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China03** |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **2** | **P14** |
| **China04** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China05** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P04** |
| **China06** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  | **1** | **P05** |
| **China07** |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P06** |
| **China08** |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P06** |
| **China09** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **3** | **P22** |
| **China10** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **2** | **P15** |
| **China11** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P07** |
| **China12** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **2** | **P15** |
| **China13** |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P08** |
| **China14** |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P08** |
| **China15** |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P08** |
| **China16** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China17** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **1** | **P09** |
| **China18** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China19** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China20** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China21** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China22** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **oo** | **1** | **P10** |
| **China23** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **2** | **P15** |
| **China24** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **3** | **P22** |
| **China25** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **2** | **P16** |
| **China26** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **3** | **P22** |
| **China27** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** | **O** |  |  |  |  | **2** | **P17** |
| **China28** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P07** |
| **China29** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  | **O** | **O** |  |  |  |  |  | **5** | **P33** |
| **China30** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **China31** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Korea01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Korea02** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea03** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** | **O** | **O** |  |  |  |  |  |  |  |  |  | **3** | **P23** |
| **Korea04** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea05** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea06** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea07** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea08** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Korea09** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea10** |  |  |  |  | **O** | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **O** | **O** | **O** |  |  |  | **O** |  |  |  |  |  | **6** | **P34** |
| **Korea11** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **2** | **P13** |
| **Korea12** |  |  |  |  | **O** | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P27** |
| **Korea13** |  |  |  |  |  |  |  | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **3** | **P21** |
| **Japan01** |  |  | **O** |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **4** | **P28** |
| **Japan02** |  |  | **O** |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **4** | **P28** |
| **Japan03** |  |  | **O** |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **4** | **P28** |
| **Japan04** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **1** | **P09** |
| **Japan05** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Japan06** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Japan07** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **USA01** |  |  |  |  |  |  |  | **O** |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  | **O** |  |  | **4** | **P29** |
| **USA02** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  | **O** | **O** |  |  |  |  |  | **5** | **P33** |
| **USA03** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **USA04** |  | **O** |  |  |  |  | **O** |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  | **4** | **P30** |
| **USA05** |  | **O** |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  | **3** | **P24** |
| **USA06** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **USA07** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **USA08** |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  | **O** | **O** | **O** |  |  |  |  | **7** | **P36** |
| **USA09** |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  | **O** | **O** |  |  |  |  |  | **6** | **P35** |
| **USA10** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P11** |
| **USA11** |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **3** | **P25** |
| **USA12** |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **3** | **P25** |
| **USA13** |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **3** | **P25** |
| **USA14** |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P06** |
| **Australia01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Australia02** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **2** | **P13** |
| **Australia03** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **O** |  |  | **O** | **4** | **P31** |
| **Australia04** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **O** |  |  | **O** | **4** | **P31** |
| **Australia05** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **O** |  |  | **O** | **4** | **P31** |
| **Australia06** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **O** |  |  | **O** | **4** | **P31** |
| **Australia07** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Australia08** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Belgium01** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **2** | **P13** |
| **Finland01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **France01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P18** |
| **France02** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P18** |
| **France03** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P04** |
| **France04** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **France05** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **France06** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P18** |
| **Germany01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Italy01** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P19** |
| **Italy02** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Nepal01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P11** |
| **Sinagapore01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Sinagapore02** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  | **1** | **P12** |
| **Sinagapore03** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P04** |
| **Sinagapore04** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  | **O** |  |  |  | **3** | **P26** |
| **Sinagapore05** |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P20** |
| **Sinagapore06** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  | **1** | **P12** |
| **Sinagapore07** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Sinagapore08** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Sinagapore09** |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P20** |
| **Sinagapore10** |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **2** | **P20** |
| **Sinagapore11** |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1** | **P06** |
| **Tailand01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Tailand02** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **Taiwan01** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  | **1** | **P03** |
| **Taiwan02** |  |  |  |  |  |  |  | **O** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **2** | **P13** |
| **Taiwan03** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0** | **P01** |
| **UK01** |  |  |  |  |  |  |  | **O** |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P32** |
| **UK02** |  |  |  |  |  |  |  | **O** |  |  |  |  | **O** |  |  |  | **O** |  |  |  |  |  |  |  | **O** |  |  |  |  |  | **4** | **P32** |
| No. of individuals | **2** | **2** | **3** | **2** | **8** | **8** | **2** | **38** | **3** | **8** | **4** | **4** | **2** | **4** | **3** | **2** | **2** | **6** | **18** | **2** | **2** | **4** | **2** | **4** | **39** | **5** | **5** | **11** | **2** | **4** | **201** |  |

Note: Red color columns indicate the mutation origin from China to other countries. The Blue color columns indicate the specific mutation of Korean virus genomes, and the Yellow color columns indicate the specific mutation of Japan or USA. The White columns indicate the mutation observed in other countries, specifically.