Supplementary Information Tables

**Table1:** Coordinates of fields on which rodents were trapped

|  |  |  |
| --- | --- | --- |
| **Field** | **Corner** | **Coordinates** |
| F1 | 1a | S06° 50.695' E037° 39.240' |
| F1 | 10a | S06° 50.675' E037° 39.202' |
| F1 | 1j | S06° 50.633' E037° 39.227' |
| F1 | 10j | S06° 50.657' E037° 39.262' |
| F3 | 1a | S06° 50.640' E037° 39.630' |
| F3 | 10a | S06° 50.600' E037° 39.617' |
| F3 | 1j | S06° 50.624' E037° 39.578' |
| F3 | 10j | S06° 50.664' E037° 39.599' |
| F4 | 1a | S06° 51.604' E037° 37.771' |
| F4 | 10a | S06° 51.573' E037° 37.791' |
| F4 | 1j | S06° 51.595' E037° 37.832' |
| F4 | 10j | S06° 51.595' E037° 37.832' |
| F5 | 1a | S06° 51.279' E037° 37.704’ |
| F5 | 10a | S06° 51.237' E037° 37.726’ |
| F5 | 1j | S06° 51.302' E037° 37.747’ |
| F5 | 10j | S06° 51.301' E037° 37.758’ |
| F6 | 1a | S06° 51.044' E037° 37.969’ |
| F6 | 10a | S06° 51.002' E037° 37.995’ |
| F6 | 1j | S06° 51.604' E037° 37.771’ |
| F6 | 10j | S06° 51.064' E037° 38.015’ |

**Table 2:** Comparison of the Ab and vRNA patterns between field and laboratory mice for each recaptured Ab-positive mouse and both TOI methods

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Fig | Individual | Method1: Ab | Method2: Ab+vRNA | Weighta | #Capturedb | Field |
| 1 | 354060F1 | match | mismatch | 40 | 2 | F1 |
| 2 | 364060F1 | match | match | 44 | 2 | F1 |
| 3 | 371090F1 | match | match | 42 | 2 | F1 |
| 4 | 3510100F1 | match | mismatch | 40 | 3 | F1 |
| 5 | 3710100F1 | match | match | 45 | 2 | F1 |
| 6 | 15F3a | match | mismatch | 36 | 4 | F3 |
| 7 | 15F3b | match | mismatch | 15 | 2 | F3 |
| 8 | 38F3 | match | match | 17 | 3 | F3 |
| 9 | 210F3 | match | match | 25 | 4 | F3 |
| 10 | 330F3 | match | mismatch | 20 | 2 | F3 |
| 11 | 340F3 | match | match | 48 | 2 | F3 |
| 12 | 390F3 | match | mismatch | 54 | 2 | F3 |
| 13 | 550F3 | match | match | 35 | 2 | F3 |
| 14 | 1670F3 | match | mismatch | 33 | 2 | F3 |
| 15 | 20100F3 | match | mismatch | 24 | 2 | F3 |
| 16 | 140F4 | match | match | 46 | 2 | F4 |
| 17 | 360F4 | match | match | 60 | 4 | F4 |
| 18 | 890F4 | match | match | 25 | 3 | F4 |
| 19 | 1100F4 | match | match | 83 | 2 | F4 |
| 20 | 4080F4 | match | match | 38 | 2 | F4 |
| 21 | 260F5 | mismatch | mismatch | 52 | 3 | F5 |
| 22 | 370F5 | mismatch | mismatch | 28 | 4 | F5 |
| 23 | 630F5 | match | match | 25 | 2 | F5 |
| 24 | 3090F5 | match | mismatch | 28 | 2 | F5 |
| 25 | 4090F5 | match | match | 11 | 2 | F5 |
| 26 | 38F6 | match | mismatch | 38 | 4 | F6 |
| 27 | 48F6 | match | mismatch | 45 | 4 | F6 |
| 28 | 180F6 | match | match | 46 | 2 | F6 |
| 29 | 210F6 | mismatch | mismatch | 19 | 3 | F6 |
| 30 | 340F6 | mismatch | match | 47 | 4 | F6 |
| 31 | 420F6 | match | match | 44 | 2 | F6 |
| 32 | 670F6 | match | mismatch | 19 | 2 | F6 |
| 33 | 760F6 | match | mismatch | 46 | 4 | F6 |
| 34 | 880F6 | match | match | 43 | 2 | F6 |
| 35 | 1770F6 | match | match | 50 | 2 | F6 |
| 36 | 2680F6 | match | mismatch | 37 | 2 | F6 |
| 37 | 3100F6 | mismatch | mismatch | 41 | 4 | F6 |
| 38 | 4530F6 | match | match | 62 | 2 | F6 |
| 39 | 8100F6 | match | match | 22 | 2 | F6 |
| 40 | 11090F6 | match | mismatch | 27 | 2 | F6 |
| 41 | 30100F6 | match | mismatch | 21 | 3 | F6 |
| 42 | 110100F6 | match | match | 22 | 2 | F6 |

aWeight= weight of the animal on its first capture

b#captured= number of times that the animal was recaptured in the field

**Table 3:** Comparison of Morogoro virus (MORV) antibody (Ab) titers between field and laboratory mice. For each field data point the difference with the confidence band (CB) of the laboratory data was given. ‘CB’ indicates that the field data point falls within the CB. Time of infection (TOI) was based on method 1 (only Ab titer).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Individual | TOI | Ab titers | Day capture | Difference with CB |
| 354060F1 | -34 | 0 | 0 | Not possible |
| 354060F1 | -34 | 60 | 40 | CB |
| 364060F1 | 92 | 30 | 0 | CB |
| 364060F1 | 92 | 300 | 41 | CB |
| 371090F1 | 9 | 3000 | 0 | CB |
| 371090F1 | 9 | 12000 | 12 | CB |
| 3510100F1 | 141 | 600 | 0 | CB |
| 3510100F1 | 141 | 3000 | 14 | CB |
| 3510100F1 | 141 | 6000 | 29 | CB |
| 3710100F1 | -2 | 0 | 0 | Not possible |
| 3710100F1 | -2 | 12000 | 14 | CB |
| 15F3a | 170 | 6000 | 0 | CB |
| 15F3a | 170 | 3000 | 27 | CB |
| 15F3a | 170 | 3000 | 41 | CB |
| 15F3a | 170 | 3000 | 53 | CB |
| 15F3b | 11 | 12000 | 0 | CB |
| 15F3b | 11 | 6000 | 32 | CB |
| 38F3 | -50 | 0 | 0 | Not possible |
| 38F3 | -50 | 0 | 27 | Not possible |
| 38F3 | -50 | 60 | 56 | CB |
| 210F3 | -47 | 0 | 0 | Not possible |
| 210F3 | -47 | 0 | 29 | Not possible |
| 210F3 | -47 | 0 | 33 | Not possible |
| 210F3 | -47 | 6000 | 57 | CB |
| 330F3 | 13 | 24000 | 0 | CB |
| 330F3 | 13 | 1500 | 56 | CB |
| 340F3 | -19 | 0 | 0 | Not possible |
| 340F3 | -19 | 6000 | 29 | CB |
| 390F3 | -33 | 0 | 0 | Not possible |
| 390F3 | -33 | 150 | 39 | CB |
| 550F3 | 12 | 12000 | 0 | CB |
| 550F3 | 12 | 18000 | 17 | CB |
| 1670F3 | 39 | 3000 | 0 | CB |
| 1670F3 | 39 | 1500 | 13 | CB |
| 20100F3 | -22 | 0 | 0 | Not possible |
| 20100F3 | -22 | 30 | 28 | CB |
| 140F4 | -36 | 0 | 0 | Not possible |
| 140F4 | -36 | 30 | 42 | CB |
| 360F4 | 170 | 12000 | 0 | CB |
| 360F4 | 170 | 3000 | 16 | CB |
| 360F4 | 170 | 3000 | 29 | CB |
| 360F4 | 170 | 3000 | 59 | CB |
| 890F4 | 24 | 12000 | 0 | CB |
| 890F4 | 24 | 6000 | 14 | CB |
| 890F4 | 24 | 3000 | 26 | CB |
| 1100F4 | 133 | 300 | 0 | CB |
| 1100F4 | 133 | 1200 | 14 | CB |
| 4080F4 | 170 | 3000 | 0 | CB |
| 4080F4 | 170 | 3000 | 14 | CB |
| 260F5 | 84 | 30 | 0 | CB |
| 260F5 | 84 | 0 | 14 | 2.23 |
| 260F5 | 84 | 0 | 27 | 2.26 |
| 370F5 | 71 | 1.1 | 0 | 2.72 |
| 370F5 | 71 | 60 | 16 | CB |
| 370F5 | 71 | 60 | 29 | CB |
| 370F5 | 71 | 60 | 59 | CB |
| 630F5 | -22 | 0 | 0 | Not possible |
| 630F5 | -22 | 60 | 28 | CB |
| 3090F5 | -8 | 0 | 0 | Not possible |
| 3090F5 | -8 | 150 | 14 | CB |
| 4090F5 | -8 | 0 | 0 | Not possible |
| 4090F5 | -8 | 300 | 14 | CB |
| 38F6 | 36 | 3000 | 0 | CB |
| 38F6 | 36 | 1500 | 15 | CB |
| 38F6 | 36 | 600 | 29 | CB |
| 38F6 | 36 | 300 | 41 | CB |
| 48F6 | 18 | 24000 | 0 | CB |
| 48F6 | 18 | 12000 | 14 | CB |
| 48F6 | 18 | 3000 | 27 | CB |
| 48F6 | 18 | 1500 | 41 | CB |
| 180F6 | -4 | 0 | 0 | Not possible |
| 180F6 | -4 | 6000 | 14 | CB |
| 210F6 | 92 | 30 | 0 | CB |
| 210F6 | 92 | 0 | 14 | 2.37 |
| 340F6 | 30 | 24000 | 0 | CB |
| 340F6 | 30 | 6000 | 16 | CB |
| 340F6 | 30 | 1500 | 26 | CB |
| 340F6 | 30 | 1500 | 58 | 0.16 |
| 420F6 | 59 | 1500 | 0 | CB |
| 420F6 | 59 | 30 | 13 | CB |
| 670F6 | -22 | 0 | 0 | Not possible |
| 670F6 | -22 | 60 | 28 | CB |
| 760F6 | 170 | 3000 | 0 | CB |
| 760F6 | 170 | 1200 | 14 | CB |
| 760F6 | 170 | 1500 | 27 | CB |
| 760F6 | 170 | 3000 | 42 | CB |
| 880F6 | -17 | 0 | 0 | Not possible |
| 880F6 | -17 | 3000 | 26 | CB |
| 1770F6 | 40 | 6000 | 0 | CB |
| 1770F6 | 40 | 150 | 13 | CB |
| 2680F6 | 51 | 1500 | 0 | CB |
| 2680F6 | 51 | 600 | 13 | CB |
| 3100F6 | 79 | 1.1 | 0 | 2.23 |
| 3100F6 | 79 | 60 | 15 | CB |
| 3100F6 | 79 | 0 | 26 | 2.13 |
| 3100F6 | 79 | 0 | 40 | 2.26 |
| 4530F6 | 34 | 12000 | 0 | CB |
| 4530F6 | 34 | 6000 | 16 | CB |
| 8100F6 | 55 | 1200 | 0 | CB |
| 8100F6 | 55 | 300 | 11 | CB |
| 11090F6 | 10 | 6000 | 0 | CB |
| 11090F6 | 10 | 300 | 52 | CB |
| 30100F6 | 11 | 12000 | 0 | CB |
| 30100F6 | 11 | 12000 | 11 | CB |
| 30100F6 | 11 | 12000 | 26 | CB |
| 110100F6 | 140 | 600 | 0 | CB |
| 110100F6 | 140 | 600 | 15 | CB |

**Table 4:** Comparison of Morogoro virus (MORV) antibody (Ab) titer and vRNA presence/absence between field and laboratory mice. For each field data point the difference with the confidence band (CB) of the laboratory was given. ‘CB’ indicates that the field data point falls within the CB. Time of infection (TOI) was based on method 2 (both Ab and vRNA titer in blood and urine).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Individual | TOI | Ab titers | MORV RNA blood | MORV RNA excretions | Day capture | Difference with CB Ab | Difference with CB blood | Difference with CB excretions |
| 354060F1 | 5 | 0 | yes | yes | 0 | CB | CB | CB |
| 354060F1 | 5 | 60 | No | NA | 40 | 1.77 | CB | NA |
| 364060F1 | 6 | 30 | yes | No | 0 | CB | CB | CB |
| 364060F1 | 6 | 300 | No | No | 41 | CB | CB | CB |
| 371090F1 | 9 | 3000 | yes | No | 0 | CB | CB | CB |
| 371090F1 | 9 | 12000 | No | No | 12 | CB | CB | CB |
| 3510100F1 | 7 | 600 | yes | No | 0 | CB | CB | CB |
| 3510100F1 | 7 | 3000 | No | No | 14 | 0.77 | CB | CB |
| 3510100F1 | 7 | 6000 | No | No | 29 | CB | CB | CB |
| 3710100F1 | -2 | 0 | No | No | 0 | Not possible | Not possible | Not possible |
| 3710100F1 | -2 | 12000 | NA | NA | 14 | CB | NA | NA |
| 15F3a | 10 | 6000 | No | No | 0 | CB | CB | CB |
| 15F3a | 10 | 3000 | yes | yes | 27 | CB | 0.01 | CB |
| 15F3a | 10 | 3000 | No | No | 41 | CB | CB | CB |
| 15F3a | 10 | 3000 | No | No | 53 | CB | CB | CB |
| 15F3b | 10 | 12000 | NA | No | 0 | CB | NA | CB |
| 15F3b | 10 | 6000 | yes | No | 32 | CB | 0.01 | CB |
| 38F3 | -50 | 0 | No | No | 0 | Not possible | Not possible | Not possible |
| 38F3 | -50 | 0 | No | No | 27 | Not possible | Not possible | Not possible |
| 38F3 | -50 | 60 | yes | No | 56 | CB | CB | CB |
| 210F3 | -46 | 0 | No | No | 0 | Not possible | Not possible | Not possible |
| 210F3 | -46 | 0 | No | No | 29 | Not possible | Not possible | Not possible |
| 210F3 | -46 | 0 | No | No | 33 | Not possible | Not possible | Not possible |
| 210F3 | -46 | 6000 | No | No | 57 | CB | CB | CB |
| 330F3 | 13 | 24000 | No | No | 0 | CB | CB | CB |
| 330F3 | 13 | 1500 | yes | yes | 56 | CB | 0.03 | 0.03 |
| 340F3 | -19 | 0 | NA | NA | 0 | Not possible | NA | NA |
| 340F3 | -19 | 6000 | NA | No | 29 | CB | NA | CB |
| 390F3 | 88 | 0 | No | yes | 0 | 2.43 | CB | 0.03 |
| 390F3 | 88 | 150 | No | yes | 39 | CB | CB | 0.03 |
| 550F3 | 14 | 12000 | NA | No | 0 | CB | NA | CB |
| 550F3 | 14 | 18000 | NA | No | 17 | CB | NA | CB |
| 1670F3 | 9 | 3000 | yes | No | 0 | CB | CB | CB |
| 1670F3 | 9 | 1500 | yes | yes | 13 | 1.63 | CB | CB |
| 20100F3 | 5 | 0 | yes | No | 0 | CB | CB | CB |
| 20100F3 | 5 | 30 | yes | yes | 28 | 4.04 | 0.02 | CB |
| 140F4 | -36 | 0 | No | NA | 0 | Not possible | Not possible | NA |
| 140F4 | -36 | 30 | yes | No | 42 | CB | CB | CB |
| 360F4 | 170 | 12000 | NA | No | 0 | CB | NA | CB |
| 360F4 | 170 | 3000 | NA | No | 16 | CB | NA | CB |
| 360F4 | 170 | 3000 | No | No | 29 | CB | CB | CB |
| 360F4 | 170 | 3000 | NA | NA | 59 | CB | NA | NA |
| 890F4 | 32 | 12000 | No | NA | 0 | CB | CB | NA |
| 890F4 | 32 | 6000 | No | No | 14 | CB | CB | CB |
| 890F4 | 32 | 3000 | No | No | 26 | CB | CB | CB |
| 1100F4 | 133 | 300 | No | No | 0 | CB | CB | CB |
| 1100F4 | 133 | 1200 | NA | No | 14 | CB | NA | CB |
| 4080F4 | 170 | 3000 | No | No | 0 | CB | CB | CB |
| 4080F4 | 170 | 3000 | No | No | 14 | CB | CB | CB |
| 260F5 | 60 | 30 | NA | No | 0 | Not possible | NA | CB |
| 260F5 | 60 | 0 | yes | No | 14 | Not possible | 0.02 | CB |
| 260F5 | 60 | 0 | No | NA | 27 | Not possible | CB | NA |
| 370F5 | 38 | 1.1 | No | No | 0 | 6.28 | CB | CB |
| 370F5 | 38 | 60 | yes | No | 16 | 0.52 | 0.01 | CB |
| 370F5 | 38 | 60 | No | No | 29 | CB | CB | CB |
| 370F5 | 38 | 60 | No | No | 59 | CB | CB | CB |
| 630F5 | -22 | 0 | No | No | 0 | Not possible | Not possible | Not possible |
| 630F5 | -22 | 60 | NA | No | 28 | CB | NA | CB |
| 3090F5 | 113 | 0 | No | yes | 0 | 2.42 | CB | 0.03 |
| 3090F5 | 113 | 150 | No | No | 14 | CB | CB | CB |
| 4090F5 | -5 | 0 | No | NA | 0 | Not possible | Not possible | NA |
| 4090F5 | -5 | 300 | No | yes | 14 | CB | CB | CB |
| 38F6 | 6 | 3000 | yes | yes | 0 | 0.93 | CB | CB |
| 38F6 | 6 | 1500 | yes | yes | 15 | 1.36 | CB | CB |
| 38F6 | 6 | 600 | yes | No | 29 | 0.52 | 0.01 | CB |
| 38F6 | 6 | 300 | yes | yes | 41 | CB | 0.01 | 0.01 |
| 48F6 | 10 | 24000 | No | No | 0 | CB | CB | CB |
| 48F6 | 10 | 12000 | No | NA | 14 | CB | CB | NA |
| 48F6 | 10 | 3000 | No | No | 27 | CB | CB | CB |
| 48F6 | 10 | 1500 | yes | yes | 41 | CB | 0.01 | 0.01 |
| 180F6 | -4 | 0 | No | No | 0 | Not possible | Not possible | Not possible |
| 180F6 | -4 | 6000 | yes | NA | 14 | CB | CB | NA |
| 210F6 | 94 | 30 | No | No | 0 | CB | CB | CB |
| 210F6 | 94 | 0 | No | No | 14 | 2.38 | CB | CB |
| 340F6 | 18 | 24000 | No | No | 0 | CB | CB | CB |
| 340F6 | 18 | 6000 | No | yes | 16 | CB | CB | CB |
| 340F6 | 18 | 1500 | No | No | 26 | CB | CB | CB |
| 340F6 | 18 | 1500 | No | No | 58 | CB | CB | CB |
| 420F6 | 59 | 1500 | No | No | 0 | CB | CB | CB |
| 420F6 | 59 | 30 | No | NA | 13 | CB | CB | NA |
| 670F6 | -19 | 0 | NA | NA | 0 | Not possible | NA | NA |
| 670F6 | -19 | 60 | No | yes | 28 | 0.47 | CB | CB |
| 760F6 | 24 | 3000 | No | yes | 0 | 0.75 | CB | CB |
| 760F6 | 24 | 1200 | No | No | 14 | CB | CB | CB |
| 760F6 | 24 | 1500 | No | No | 27 | CB | CB | CB |
| 760F6 | 24 | 3000 | No | No | 42 | CB | CB | CB |
| 880F6 | -16 | 0 | No | NA | 0 | Not possible | Not possible | NA |
| 880F6 | -16 | 3000 | No | NA | 26 | CB | CB | NA |
| 1770F6 | 47 | 6000 | No | No | 0 | CB | CB | CB |
| 1770F6 | 47 | 150 | No | No | 13 | CB | CB | CB |
| 2680F6 | 40 | 1500 | No | NA | 0 | CB | CB | NA |
| 2680F6 | 40 | 600 | yes | No | 13 | CB | 0.03 | CB |
| 3100F6 | 48 | 1.1 | No | No | 0 | 5.25 | CB | CB |
| 3100F6 | 48 | 60 | No | No | 15 | CB | CB | CB |
| 3100F6 | 48 | 0 | NA | NA | 26 | 2.53 | NA | NA |
| 3100F6 | 48 | 0 | yes | NA | 40 | 2.19 | 0.01 | NA |
| 4530F6 | 12 | 12000 | yes | No | 0 | CB | CB | CB |
| 4530F6 | 12 | 6000 | No | yes | 16 | CB | CB | CB |
| 8100F6 | 55 | 1200 | No | No | 0 | CB | CB | CB |
| 8100F6 | 55 | 300 | No | No | 11 | CB | CB | CB |
| 11090F6 | 11 | 6000 | yes | yes | 0 | CB | CB | CB |
| 11090F6 | 11 | 300 | yes | No | 52 | CB | 0.03 | CB |
| 30100F6 | 9 | 12000 | yes | No | 0 | 0.21 | CB | CB |
| 30100F6 | 9 | 12000 | NA | yes | 11 | CB | NA | CB |
| 30100F6 | 9 | 12000 | No | No | 26 | CB | CB | CB |
| 110100F6 | 140 | 600 | No | No | 0 | CB | CB | CB |
| 110100F6 | 140 | 600 | No | No | 15 | CB | CB | CB |