

| Virus | Mutation Position | Region | Frequency | Nucleotide | Transition / Transversion | Amino acid | Synonymous / Non-Synonymous |
|---------------|-------------------|-----------|-----------|------------|---------------------------|------------|-----------------------------|
| Osh_IC #1 | 2347 | glycoprot | 0,0100 | A->G | Transition | Asp -> Gly | Non-Synonymous |
| Osh_IC #1 | 6147 | DEXDc | 0,0105 | G->A | Transition | Ala -> Thr | Non-Synonymous |
| Osh_IC #1 | 10503 | NS5 | 0,0108 | G->A | Transition | Asp -> Asn | Non-Synonymous |
| Osh_IC #1 | 11859 | 3' UTR | 0,0224 | A->C | Transversion | | UTR |
| Osh_IC #2 | 8528 | | 0,0135 | C->T | Transition | | |
| Osh_IC #2 | 2511 | glycoprot | 0,0176 | G->A | Transition | Gly -> Arg | Non-Synonymous |
| Osh_IC #2 | 11859 | 3' UTR | 0,0214 | A->C | Transversion | | UTR |
| Osh_ISAtaq #1 | 2833 | E | 0,0101 | A->G | Transition | Glu -> Gly | Non-Synonymous |
| Osh_ISAtaq #1 | 7427 | NS4A | 0,0111 | C->T | Transition | Gly | Synonymous |
| Osh_ISAtaq #1 | 826 | 5'UTR | 0,0116 | A->G | Transition | | UTR |
| Osh_ISAtaq #1 | 11628 | 3' UTR | 0,0117 | T->C | Transition | | UTR |
| Osh_ISAtaq #1 | 6020 | DEXDc | 0,0146 | T->C | Transition | Ile | Synonymous |
| Osh_ISAtaq #1 | 8216 | NS4B | 0,0165 | T->C | Transition | Leu | Synonymous |
| Osh_ISAtaq #1 | 2362 | glycoprot | 0,0204 | A->G | Transition | His -> Arg | Non-Synonymous |
| Osh_ISAtaq #1 | 2195 | glycoprot | 0,0212 | T->C | Transition | Ala | Synonymous |
| Osh_ISAtaq #1 | 1641 | M | 0,0229 | A->G | Transition | Thr -> Ala | Non-Synonymous |
| Osh_ISAtaq #1 | 1627 | M | 0,0248 | A->G | Transition | Lys -> Arg | Non-Synonymous |
| Osh_ISAtaq #1 | 4715 | NS2A | 0,0254 | T->C | Transition | Ala | Synonymous |
| Osh_ISAtaq #1 | 2504 | glycoprot | 0,9193 | C->T | Transition | Tyr | Synonymous |
| Osh_ISAtaq #1 | 11385 | 3' UTR | 0,9221 | G->A | Transition | | UTR |
| Osh_ISAtaq #1 | 7324 | NS4A | 0,9317 | A->G | Transition | His -> Arg | Non-Synonymous |
| Osh_ISAtaq #2 | 1799 | glycoprot | 0,0110 | A->G | Transition | Arg | Synonymous |
| Osh_ISAtaq #2 | 4542 | NS2A | 0,0110 | T->C | Transition | Leu | Synonymous |
| Osh_ISAtaq #2 | 11279 | 3' UTR | 0,0112 | A->G | Transition | | UTR |
| Osh_ISAtaq #2 | 3359 | NS1 | 0,0112 | A->G | Transition | Ser | Synonymous |
| Osh_ISAtaq #2 | 7932 | NS4B | 0,0116 | C->T | Transition | Pro -> Ser | Non-Synonymous |
| Osh_ISAtaq #2 | 8615 | FGsJ | 0,0120 | A->G | Transition | Lys | Synonymous |
| Osh_ISAtaq #2 | 2270 | glycoprot | 0,0121 | A->G | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 8892 | FGsJ | 0,0122 | G->A | Transition | Ala -> Thr | Non-Synonymous |
| Osh_ISAtaq #2 | 6554 | HELICc | 0,0123 | T->C | Transition | Phe | Synonymous |
| Osh_ISAtaq #2 | 9268 | NS5 | 0,0129 | A->G | Transition | Glu -> Arg | Non-Synonymous |
| Osh_ISAtaq #2 | 6758 | HELICc | 0,0131 | C->T | Transition | Val | Synonymous |
| Osh_ISAtaq #2 | 8066 | NS4B | 0,0138 | T->C | Transition | Ala | Synonymous |
| Osh_ISAtaq #2 | 1247 | | 0,0139 | A->G | Transition | | |
| Osh_ISAtaq #2 | 834 | 5'UTR | 0,0144 | A->G | Transition | | UTR |
| Osh_ISAtaq #2 | 4874 | NS2A | 0,0144 | A->G | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 4904 | NS2A | 0,0145 | A->G | Transition | Leu | Synonymous |
| Osh_ISAtaq #2 | 7731 | NS4B | 0,0148 | A->G | Transition | Ser -> Gly | Non-Synonymous |
| Osh_ISAtaq #2 | 2240 | glycoprot | 0,0149 | T->C | Transition | Val | Synonymous |

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|---------------|-------|-----------|--------|------|--------------|------------|----------------|
| Osh_ISAtaq #2 | 8509 | | 0,0150 | C->T | Transition | | |
| Osh_ISAtaq #2 | 2131 | glycoprot | 0,0152 | T->C | Transition | Val -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 2972 | E | 0,0154 | A->G | Transition | Glu | Synonymous |
| Osh_ISAtaq #2 | 9833 | NS5 | 0,0155 | A->G | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 8048 | NS4B | 0,0155 | G->A | Transition | Val | Synonymous |
| Osh_ISAtaq #2 | 4360 | NS2A | 0,0156 | G->T | Transversion | Arg -> Leu | Non-Synonymous |
| Osh_ISAtaq #2 | 819 | 5'UTR | 0,0174 | A->G | Transition | | UTR |
| Osh_ISAtaq #2 | 6350 | DEXDc | 0,0176 | T->C | Transition | Ser | Synonymous |
| Osh_ISAtaq #2 | 8528 | | 0,0196 | C->T | Transition | | |
| Osh_ISAtaq #2 | 7447 | NS4A | 0,0217 | T->C | Transition | Val -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 6404 | | 0,0235 | T->C | Transition | | |
| Osh_ISAtaq #2 | 8548 | | 0,0236 | A->G | Transition | | |
| Osh_ISAtaq #2 | 3177 | E | 0,0292 | T->C | Transition | Phe -> Leu | Non-Synonymous |
| Osh_ISAtaq #2 | 4052 | NS1 | 0,0296 | A->G | Transition | Arg | Synonymous |
| Osh_ISAtaq #2 | 4922 | NS2A | 0,0356 | T->C | Transition | Ser | Synonymous |
| Osh_ISAtaq #2 | 8057 | NS4B | 0,0468 | A->G | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 9280 | NS5 | 0,0480 | G->A | Transition | Ser -> Asn | Non-Synonymous |
| Osh_ISAtaq #2 | 9542 | NS5 | 0,0524 | C->T | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 1782 | glycoprot | 0,0527 | A->G | Transition | Thr -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 1577 | M | 0,0553 | A->G | Transition | Glu | Synonymous |
| Osh_ISAtaq #2 | 9922 | NS5 | 0,0556 | A->G | Transition | His -> Arg | Non-Synonymous |
| Osh_ISAtaq #2 | 10961 | NS5 | 0,0596 | T->C | Transition | Ser | Synonymous |
| Osh_ISAtaq #2 | 8224 | NS4B | 0,0614 | T->C | Transition | Met -> Thr | Non-Synonymous |
| Osh_ISAtaq #2 | 1382 | propep | 0,0616 | A->G | Transition | Ser | Synonymous |
| Osh_ISAtaq #2 | 3212 | E | 0,0622 | A->G | Transition | Thr | Synonymous |
| Osh_ISAtaq #2 | 10340 | NS5 | 0,0625 | A->G | Transition | Ala | Synonymous |
| Osh_ISAtaq #2 | 3435 | NS1 | 0,0626 | A->G | Transition | Ser -> Gly | Non-Synonymous |
| Osh_ISAtaq #2 | 10421 | NS5 | 0,0628 | C->T | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 8441 | | 0,0650 | T->C | Transition | | |
| Osh_ISAtaq #2 | 2251 | glycoprot | 0,0682 | A->G | Transition | Lys -> Arg | Non-Synonymous |
| Osh_ISAtaq #2 | 2300 | glycoprot | 0,0710 | A->G | Transition | Arg | Synonymous |
| Osh_ISAtaq #2 | 10553 | NS5 | 0,0711 | C->T | Transition | Val | Synonymous |
| Osh_ISAtaq #2 | 2047 | glycoprot | 0,0714 | A->G | Transition | Asn -> Ser | Non-Synonymous |
| Osh_ISAtaq #2 | 7595 | NS4A | 0,0716 | G->A | Transition | Ala | Synonymous |
| Osh_ISAtaq #2 | 1079 | C prot | 0,0719 | G->A | Transition | Lys | Synonymous |
| Osh_ISAtaq #2 | 9285 | NS5 | 0,0738 | T->C | Transition | Leu | Synonymous |
| Osh_ISAtaq #2 | 6425 | | 0,0742 | A->G | Transition | | |
| Osh_ISAtaq #2 | 8705 | FGsJ | 0,0759 | A->G | Transition | Ala | Synonymous |
| Osh_ISAtaq #2 | 5861 | NS3 | 0,0766 | C->T | Transition | Ser | Synonymous |
| Osh_ISAtaq #2 | 4734 | NS2A | 0,0780 | A->G | Transition | Thr -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 8579 | | 0,0788 | C->T | Transition | | |
| Osh_ISAtaq #2 | 3302 | | 0,0797 | A->G | Transition | | |
| Osh_ISAtaq #2 | 7262 | NS4A | 0,0829 | G->A | Transition | Gly | Synonymous |

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|---------------|-------|-----------|--------|------|--------------|------------|----------------|
| Osh_ISAtaq #2 | 3848 | NS1 | 0,0862 | T->C | Transition | Asn | Synonymous |
| Osh_ISAtaq #2 | 991 | C prot | 0,0979 | T->C | Transition | Val -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 11209 | 3' UTR | 0,1067 | A->G | Transition | | UTR |
| Osh_ISAtaq #2 | 1462 | propep | 0,1122 | T->C | Transition | Val -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 11746 | 3' UTR | 0,1143 | C->T | Transition | | UTR |
| Osh_ISAtaq #2 | 11714 | 3' UTR | 0,1185 | A->G | Transition | | UTR |
| Osh_ISAtaq #2 | 3372 | NS1 | 0,3948 | A->G | Transition | Thr -> Ala | Non-Synonymous |
| Osh_ISAtaq #2 | 11716 | 3' UTR | 0,4156 | A->G | Transition | | UTR |
| Osh_ISAtaq #2 | 7520 | NS4A | 0,4206 | T->C | Transition | Gly | Synonymous |
| Osh_ISAtaq #2 | 2509 | glycoprot | 0,4299 | T->A | Transversion | Leu -> His | Non-Synonymous |
| Osh_ISAtaq #2 | 1237 | | 0,4325 | T->C | Transition | | |
| Osh_ISAtaq #2 | 2139 | glycoprot | 0,4432 | G->A | Transition | Ala -> Thr | Non-Synonymous |
| Osh_ISAtaq #2 | 2111 | glycoprot | 0,4496 | A->G | Transition | Lys | Synonymous |
| Osh_ISAtaq #2 | 3674 | NS1 | 0,4544 | A->G | Transition | Arg | Synonymous |
| Osh_ISAtaq #3 | 7409 | NS4A | 0,0117 | C->T | Transition | Leu | Synonymous |
| Osh_ISAtaq #3 | 2948 | E | 0,0119 | T->C | Transition | Phe | Synonymous |
| Osh_ISAtaq #3 | 8528 | | 0,0125 | C->T | Transition | | |
| Osh_ISAtaq #3 | 2555 | glycoprot | 0,0145 | T->A | Transversion | Pro | Synonymous |
| Osh_ISAtaq #3 | 2356 | glycoprot | 0,0152 | C->T | Transition | Ser -> Leu | Non-Synonymous |
| Osh_ISAtaq #3 | 10124 | NS5 | 0,0174 | A->G | Transition | Gln | Synonymous |
| Osh_ISAtaq #3 | 6045 | DEXDc | 0,0204 | T->C | Transition | Leu | Synonymous |
| Osh_ISAtaq #3 | 6827 | | 0,0211 | T->C | Transition | | |
| Osh_ISAtaq #3 | 7835 | NS4B | 0,9545 | A->G | Transition | Pro | Synonymous |
| Osh_ISAtaq #3 | 1687 | | 0,9580 | T->C | Transition | | |
| Osh_ISAtaq #3 | 6397 | | 0,9647 | A->G | Transition | | |
| Osh_ISAtaq #3 | 2128 | glycoprot | 0,9675 | A->G | Transition | His -> Arg | Non-Synonymous |
| Osh_ISAtaq #3 | 3482 | NS1 | 0,9678 | T->C | Transition | Asn | Synonymous |
| Osh_ISApfu #1 | 1668 | M | 0,0106 | C->A | Transversion | Leu -> Met | Non-Synonymous |
| Osh_ISApfu #1 | 2203 | glycoprot | 0,0109 | A->G | Transition | Glu -> Gly | Non-Synonymous |
| Osh_ISApfu #1 | 11015 | NS5 | 0,0129 | C->T | Transition | Ala | Synonymous |
| Osh_ISApfu #1 | 7729 | NS4B | 0,0136 | G->T | Transversion | Trp -> Leu | Non-Synonymous |
| Osh_ISApfu #1 | 4530 | NS2A | 0,0174 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISApfu #1 | 8251 | NS4B | 0,0184 | C->T | Transition | Pro -> Leu | Non-Synonymous |
| Osh_ISApfu #1 | 3854 | NS1 | 0,0220 | A->G | Transition | Thr | Synonymous |
| Osh_ISApfu #1 | 9395 | NS5 | 0,0241 | G->T | Transversion | Leu | Synonymous |
| Osh_ISApfu #1 | 8718 | FGsJ | 0,0285 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISApfu #1 | 2486 | glycoprot | 0,0306 | T->A | Transversion | Ala | Synonymous |
| Osh_ISApfu #1 | 4659 | NS2A | 0,0392 | G->T | Transversion | Gly -> Trp | Non-Synonymous |
| Osh_ISApfu #1 | 1765 | glycoprot | 0,0618 | G->T | Transversion | Arg -> Met | Non-Synonymous |
| Osh_ISApfu #1 | 8429 | NS4B | 0,0718 | G->A | Transition | Arg | Synonymous |
| Osh_ISApfu #2 | 10912 | NS5 | 0,0101 | G->A | Transition | Gly -> Asp | Non-Synonymous |
| Osh_ISApfu #2 | 8918 | FGsJ | 0,0110 | G->T | Transversion | Arg | Synonymous |
| Osh_ISApfu #2 | 11383 | 3' UTR | 0,0112 | G->T | Transversion | | UTR |

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|---------------|-------|-----------|--------|------|--------------|------------|----------------|
| Osh_ISApfu #2 | 7932 | NS4B | 0,0121 | C->T | Transition | Pro -> Ser | Non-Synonymous |
| Osh_ISApfu #2 | 1765 | glycoprot | 0,0129 | G->T | Transversion | Arg -> Met | Non-Synonymous |
| Osh_ISApfu #2 | 11682 | 3' UTR | 0,0130 | C->T | Transition | | UTR |
| Osh_ISApfu #2 | 8528 | | 0,0137 | C->T | Transition | | |
| Osh_ISApfu #2 | 8378 | NS4B | 0,0199 | G->T | Transversion | Trp -> Cys | Non-Synonymous |
| Osh_ISApfu #2 | 4319 | | 0,0207 | C->T | Transition | | |
| Osh_ISApfu #2 | 2770 | E | 0,0214 | C->T | Transition | Ala -> Val | Non-Synonymous |
| Osh_ISApfu #2 | 1350 | propep | 0,0215 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISApfu #2 | 8305 | NS4B | 0,0217 | G->T | Transversion | Arg -> Ile | Non-Synonymous |
| Osh_ISApfu #2 | 6147 | DEXDc | 0,0266 | G->A | Transition | Ala -> Thr | Non-Synonymous |
| Osh_ISApfu #2 | 8773 | FGsJ | 0,0274 | A->G | Transition | Lys -> Arg | Non-Synonymous |
| Osh_ISApfu #2 | 7150 | | 0,0277 | G->A | Transition | | |
| Osh_ISApfu #2 | 11099 | NS5 | 0,0350 | G->A | Transition | Arg | Synonymous |
| Osh_ISApfu #2 | 6275 | DEXDc | 0,0390 | G->T | Transversion | Arg | Synonymous |
| Osh_ISApfu #2 | 5036 | NS2B | 0,0544 | G->A | Transition | Arg | Synonymous |
| Osh_ISApfu #2 | 3512 | NS1 | 0,1018 | C->A | Transversion | Pro | Synonymous |
| Osh_ISApfu #3 | 5711 | NS3 | 0,0100 | C->A | Transversion | Pro | Synonymous |
| Osh_ISApfu #3 | 11087 | NS5 | 0,0102 | C->A | Transversion | Ser | Synonymous |
| Osh_ISApfu #3 | 11556 | 3' UTR | 0,0104 | C->T | Transition | | UTR |
| Osh_ISApfu #3 | 5195 | NS2B | 0,0105 | G->T | Transversion | Arg | Synonymous |
| Osh_ISApfu #3 | 1976 | glycoprot | 0,0105 | T->A | Transversion | Pro | Synonymous |
| Osh_ISApfu #3 | 8019 | NS4B | 0,0106 | G->T | Transversion | Gly -> Cys | Non-Synonymous |
| Osh_ISApfu #3 | 6986 | | 0,0110 | T->C | Transition | | |
| Osh_ISApfu #3 | 3713 | NS1 | 0,0113 | C->A | Transversion | Gly | Synonymous |
| Osh_ISApfu #3 | 1407 | propep | 0,0115 | G->C | Transversion | Asp -> His | Non-Synonymous |
| Osh_ISApfu #3 | 6884 | | 0,0117 | T->C | Transition | | |
| Osh_ISApfu #3 | 7880 | NS4B | 0,0117 | C->T | Transition | Asn | Synonymous |
| Osh_ISApfu #3 | 1414 | propep | 0,0118 | G->T | Transversion | Gly -> Val | Non-Synonymous |
| Osh_ISApfu #3 | 4346 | NS2A | 0,0122 | T->C | Transition | Leu | Synonymous |
| Osh_ISApfu #3 | 4082 | NS1 | 0,0123 | G->T | Transversion | Arg -> Ser | Non-Synonymous |
| Osh_ISApfu #3 | 2087 | glycoprot | 0,0132 | T->C | Transition | Cys | Synonymous |
| Osh_ISApfu #3 | 2406 | glycoprot | 0,0155 | C->T | Transition | Leu | Synonymous |
| Osh_ISApfu #3 | 3132 | E | 0,0158 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISApfu #3 | 1343 | propep | 0,0165 | G->A | Transition | Val | Synonymous |
| Osh_ISApfu #3 | 9778 | NS5 | 0,0172 | C->T | Transition | Ala -> Val | Non-Synonymous |
| Osh_ISApfu #3 | 2174 | glycoprot | 0,0172 | G->A | Transition | Pro | Synonymous |
| Osh_ISApfu #3 | 6641 | HELICc | 0,0172 | G->T | Transversion | Val | Synonymous |
| Osh_ISApfu #3 | 1822 | glycoprot | 0,0173 | G->T | Transversion | Gly -> Ala | Non-Synonymous |
| Osh_ISApfu #3 | 8918 | FGsJ | 0,0201 | G->A | Transition | Arg | Synonymous |
| Osh_ISApfu #3 | 7932 | NS4B | 0,0221 | C->T | Transition | Pro -> Ser | Non-Synonymous |
| Osh_ISApfu #3 | 8528 | | 0,0221 | C->T | Transition | | |
| Osh_ISApfu #3 | 2347 | glycoprot | 0,0298 | A->G | Transition | Asp -> Gly | Non-Synonymous |
| Osh_ISApfu #3 | 8540 | | 0,0365 | A->C | Transversion | | |

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|---------------------------|-------|-----------|--------|------|--------------|------------|----------------|
| Osh_ISA _{pfu} #3 | 7383 | NS4A | 0,0461 | T->A | Transversion | Leu -> Met | Non-Synonymous |
| Osh_ISA _{pfu} #3 | 11859 | 3' UTR | 0,0481 | A->C | Transversion | | UTR |
| Osh_ISA _{pfu} #3 | 3193 | E | 0,0532 | G->T | Transversion | Gly -> Val | Non-Synonymous |
| Osh_ISA _{pfu} #3 | 6722 | HELICc | 0,0554 | G->T | Transversion | Val | Synonymous |
| Osh_ISA _{pfu} #3 | 7672 | | 0,0566 | C->T | Transition | | |
| Osh_ISA _{pfu} #3 | 1350 | propep | 0,0680 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISA _{phu} #1 | 4407 | NS2A | 0,0123 | G->T | Transversion | Val -> Phe | Non-Synonymous |
| Osh_ISA _{phu} #1 | 8304 | NS4B | 0,0129 | A->G | Transition | Arg -> Gly | Non-Synonymous |
| Osh_ISA _{phu} #1 | 3348 | NS1 | 0,0135 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISA _{phu} #1 | 11859 | 3' UTR | 0,0147 | A->C | Transversion | | UTR |
| Osh_ISA _{phu} #1 | 10869 | NS5 | 0,0158 | G->A | Transition | Val -> Ile | Non-Synonymous |
| Osh_ISA _{phu} #1 | 5891 | | 0,0163 | C->T | Transition | | |
| Osh_ISA _{phu} #1 | 978 | C prot | 0,0171 | C->T | Transition | Arg -> Cys | Non-Synonymous |
| Osh_ISA _{phu} #1 | 2950 | E | 0,0188 | A->G | Transition | Gln -> Arg | Non-Synonymous |
| Osh_ISA _{phu} #1 | 2322 | glycoprot | 0,0196 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISA _{phu} #1 | 9872 | NS5 | 0,0218 | G->T | Transversion | Leu | Synonymous |
| Osh_ISA _{phu} #1 | 11558 | 3' UTR | 0,0305 | C->A | Transversion | | UTR |
| Osh_ISA _{phu} #1 | 10742 | NS5 | 0,0536 | G->T | Transversion | Arg | Synonymous |
| Osh_ISA _{phu} #1 | 2347 | glycoprot | 0,0581 | A->G | Transition | Asp -> Gly | Non-Synonymous |
| Osh_ISA _{phu} #1 | 935 | C prot | 0,0590 | C->T | Transition | Gly | Synonymous |
| Osh_ISA _{phu} #1 | 6127 | DEXDc | 0,0904 | G->T | Transversion | Gly -> Val | Non-Synonymous |
| Osh_ISA _{phu} #1 | 7988 | NS4B | 0,1302 | C->T | Transition | Gly | Synonymous |
| Osh_ISA _{phu} #1 | 5061 | NS2B | 0,1321 | G->A | Transition | Ala -> Thr | Non-Synonymous |
| Osh_ISA _{phu} #1 | 8917 | FGsJ | 0,2075 | G->T | Transversion | Arg -> Leu | Non-Synonymous |
| Osh_ISA _{phu} #2 | 3987 | NS1 | 0,0103 | T->C | Transition | Trp -> Arg | Non-Synonymous |
| Osh_ISA _{phu} #2 | 1090 | C prot | 0,0106 | A->G | Transition | Asn -> Ser | Non-Synonymous |
| Osh_ISA _{phu} #2 | 10452 | NS5 | 0,0115 | A->G | Transition | Arg -> Gly | Non-Synonymous |
| Osh_ISA _{phu} #2 | 8312 | NS4B | 0,0150 | G->T | Transversion | Glu -> Asp | Non-Synonymous |
| Osh_ISA _{phu} #2 | 9291 | NS5 | 0,0158 | G->A | Transition | Glu -> Lys | Non-Synonymous |
| Osh_ISA _{phu} #2 | 1424 | propep | 0,0159 | G->T | Transversion | Pro | Synonymous |
| Osh_ISA _{phu} #2 | 9056 | FGsJ | 0,0159 | G->T | Transversion | Val | Synonymous |
| Osh_ISA _{phu} #2 | 7313 | NS4A | 0,0184 | C->T | Transition | Tyr | Synonymous |
| Osh_ISA _{phu} #2 | 7532 | NS4A | 0,0187 | C->T | Transition | Tyr | Synonymous |
| Osh_ISA _{phu} #2 | 2373 | glycoprot | 0,0275 | G->T | Transversion | Ala -> Ser | Non-Synonymous |
| Osh_ISA _{phu} #2 | 7126 | | 0,0393 | C->A | Transversion | | |
| Osh_ISA _{phu} #2 | 6965 | | 0,0584 | G->A | Transition | | |
| Osh_ISA _{phu} #2 | 5357 | NS2B | 0,0637 | G->T | Transversion | Thr | Synonymous |
| Osh_ISA _{phu} #2 | 8151 | NS4B | 0,0916 | G->A | Transition | Gly -> Arg | Non-Synonymous |
| Osh_ISA _{phu} #2 | 6127 | DEXDc | 0,0974 | G->A | Transition | Gly -> Glu | Non-Synonymous |
| Osh_ISA _{phu} #2 | 5450 | NS3 | 0,0986 | C->A | Transversion | Phe -> Leu | Non-Synonymous |
| Osh_ISA _{phu} #2 | 9395 | NS5 | 0,1036 | G->A | Transition | Leu | Synonymous |
| Osh_ISA _{phu} #2 | 3404 | NS1 | 0,1098 | C->A | Transversion | Pro | Synonymous |
| Osh_ISA _{phu} #2 | 10911 | NS5 | 0,1443 | G->T | Transversion | Gly -> Cys | Non-Synonymous |

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|---------------|-------|-----------|--------|------|--------------|------------|----------------|
| Osh_ISAphu #3 | 3386 | NS1 | 0,0122 | A->T | Transversion | Gly | Synonymous |
| Osh_ISAphu #3 | 3803 | NS1 | 0,0134 | G->A | Transition | Met -> Ile | Non-Synonymous |
| Osh_ISAphu #3 | 3217 | E | 0,0140 | G->T | Transversion | Gly -> Val | Non-Synonymous |
| Osh_ISAphu #3 | 866 | 5'UTR | 0,0143 | A->G | Transition | | UTR |
| Osh_ISAphu #3 | 7988 | NS4B | 0,0145 | C->A | Transversion | Gly | Synonymous |
| Osh_ISAphu #3 | 1820 | glycoprot | 0,0160 | G->A | Transition | Leu | Synonymous |
| Osh_ISAphu #3 | 4962 | NS2A | 0,0165 | G->A | Transition | Gly -> Arg | Non-Synonymous |
| Osh_ISAphu #3 | 1822 | glycoprot | 0,0174 | G->T | Transversion | Gly -> Ala | Non-Synonymous |
| Osh_ISAphu #3 | 9956 | NS5 | 0,0183 | G->A | Transition | Val | Synonymous |
| Osh_ISAphu #3 | 9732 | NS5 | 0,0199 | C->A | Transversion | Gln -> Lys | Non-Synonymous |
| Osh_ISAphu #3 | 2378 | glycoprot | 0,0227 | G->T | Transversion | Trp -> Cys | Non-Synonymous |
| Osh_ISAphu #3 | 10808 | NS5 | 0,0258 | C->A | Transversion | Gly | Synonymous |
| Osh_ISAphu #3 | 11442 | 3' UTR | 0,0473 | C->T | Transition | | UTR |
| Osh_ISAphu #3 | 4937 | NS2A | 0,1375 | G->A | Transition | Leu | Synonymous |
| Osh_ISAphu #3 | 1553 | M | 0,1441 | A->G | Transition | Thr | Synonymous |

Table S4: Summary of all mutations detected