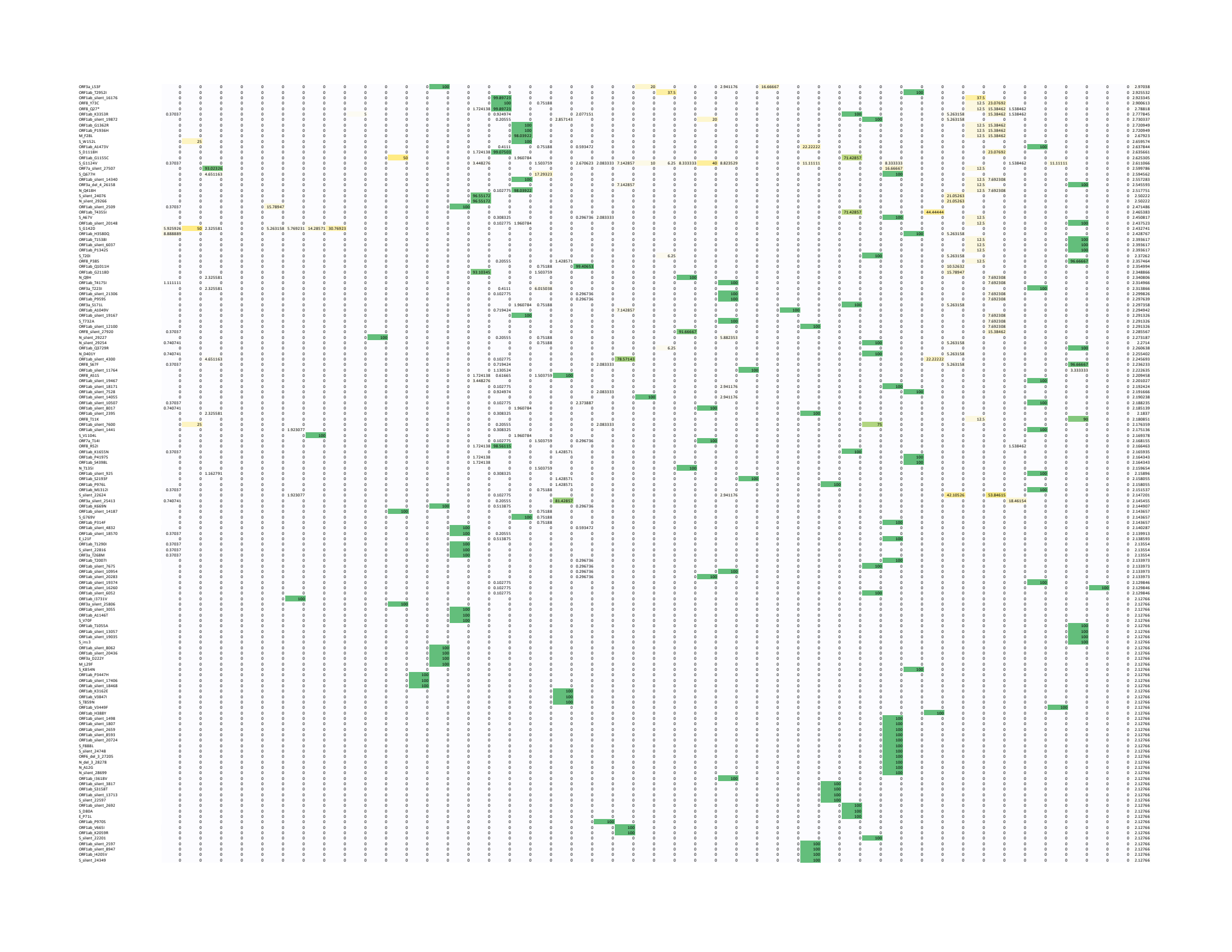
Table S5

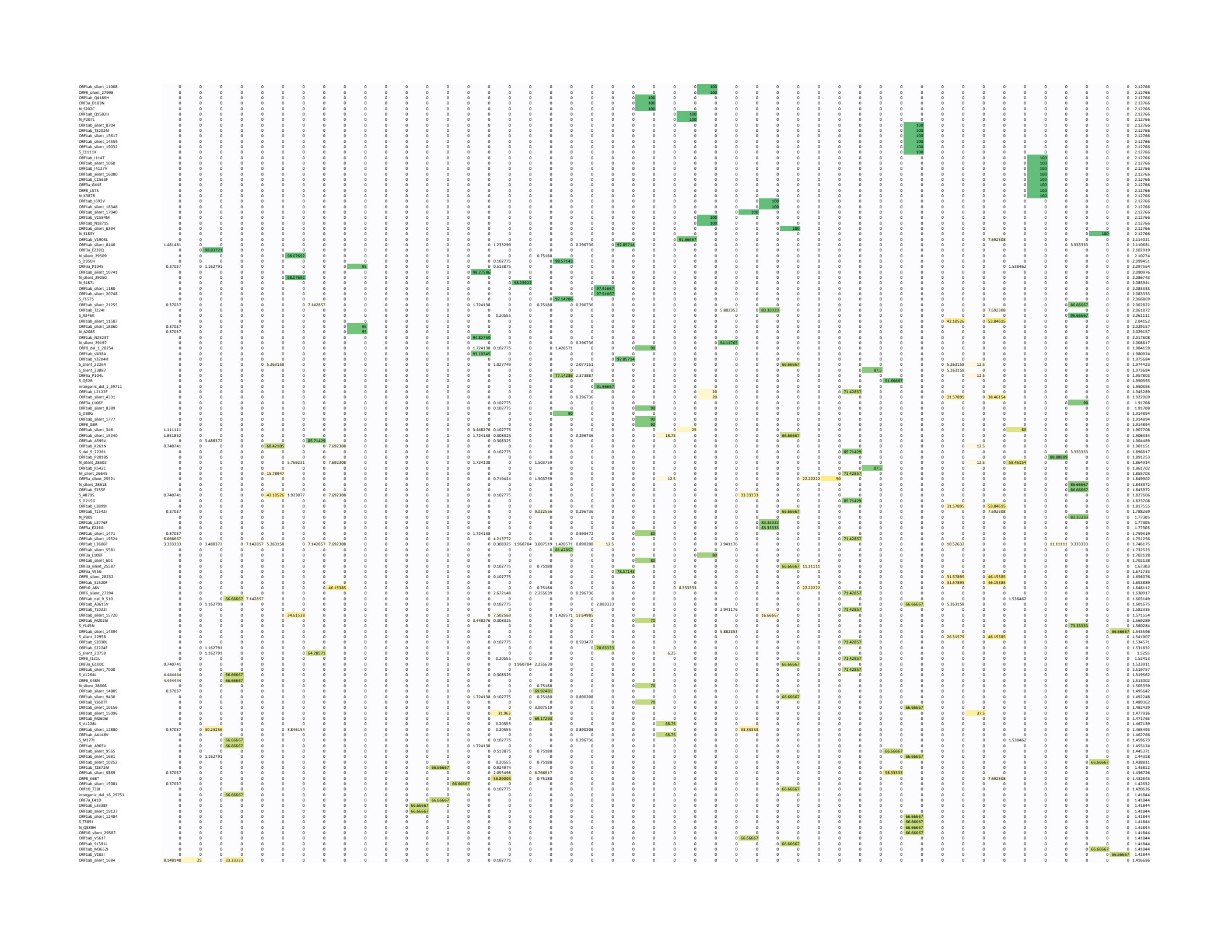
The percent of genomes within each SARS-CoV-2 lineage containing each substitution or deletion.

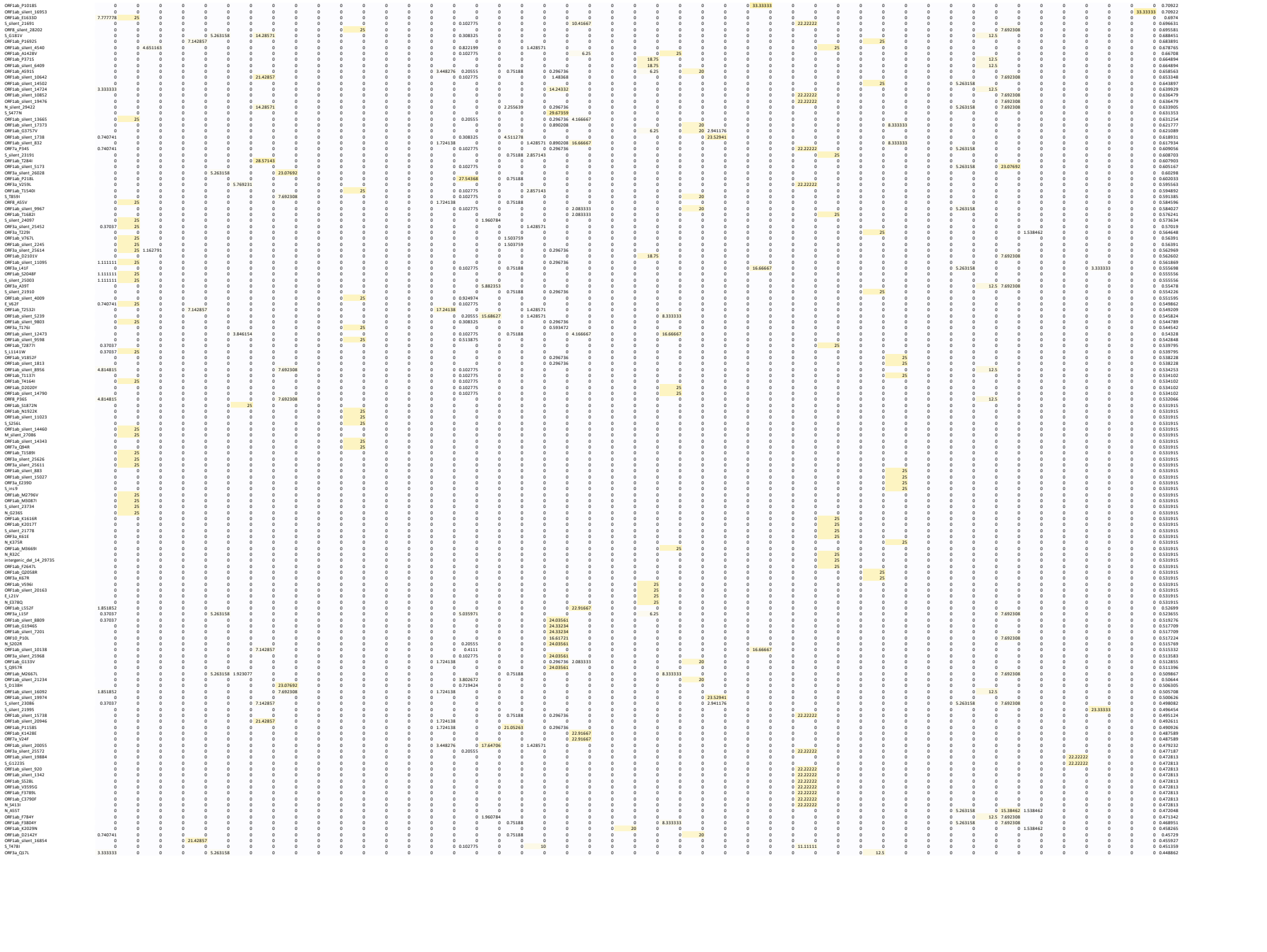
	B.1.617.2	AY.10	AY.25	AY.19	AY.14	AY.12	AY.3	AY.20	AY.4	AY.24	AY.21	AY.15	AY.13	AY.1	AY.2
ORF1ab_silent_3037	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
S_D614G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
intergenic_NA	99.62963	100	100	100	100	100	98.07692	100	100	100	100	100	100	100	100
ORF1ab_P314L	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
intergenic_del_1_28271	100	75	97.67442	100	100	100	98.07692	100	69.23077	100	100	100	100	100	100
ORF3a_Q57H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_D377Y	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M_I82T	100	100	100	100	100	100	98.07692	100	100	100	100	100	100	100	100
S_L452R	98.14815	75	97.67442	100	92.85714	89.47368	100	100	92.30769	95	100	100	100	100	66.66667
S_D950N	98.88889	75	98.83721	100	100	100	98.07692	92.85714	92.30769	100	100	100	100	100	100
ORF1ab_T265I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_R203M	99.25926	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ORF1ab_G662S	91.11111	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ORF1ab_P1000L	91.11111	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ORF3a_S26L	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
S_P681R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N_D63G	96.66667	100	100	100	100	100	100	100	100	100	100	100	100	100	100
S_T478K	98.14815	50	100	100	100	89.47368	100	100	92.30769	95	100	100	100	100	66.66667
S_T19R	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ORF7a_T120I	100	100	95.34884	100	92.85714	100	100	100	100	100	100	100	66.66667	100	100
ORF7a_V82A	98.88889	100	96.51163	100	85.71429	84.21053	100	92.85714	100	100	100	100	66.66667	100	100
S_del_6_22029	99.25926	100	97.67442	100	100	100	100	100	23.07692	100	100	100	100	100	100
ORF8_del_6_28248	90.74074	100	94.18605	66.66667	85.71429	94.73684	98.07692	92.85714	92.30769	100	100	100	100	100	100
ORF1ab_T3255I	68.51852	25	100	0	0	84.21053	100	100	100	95	0	0	0	100	0
N_T205I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_9_11288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A3209V	22.96296	50	0	100	100	15.78947	0	14.28571	0	5	100	100	100	0	100
N_R203K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G204R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_E484K	0	0	0	0	0	0	0	0	7.692308	0	0	0	0	0	0
ORF1ab_A1918V	67.77778	25	100	0	0	84.21053	100	100	100	95	0	0	0	100	0
ORF1ab_P2046L	68.14815	25	100	0	0	84.21053	98.07692	100	100	95	0	0	0	100	0
N_G215C	67.40741	25	96.51163	0	0	84.21053	100	100	100	95	0	0	0	100	0
ORF1ab_P2287S	67.03704	25	100	0	0	84.21053	100	100	100	95	0	0	0	100	0
ORF1ab_silent_8986	67.77778	25	100	0	0	84.21053	100	100	100	95	0	0	0	100	0
ORF1ab_T3646A	67.77778	25	100	0	0	84.21053	100	100	100	95	0	0	0	100	0
ORF1ab_silent_11332	67.77778	25	100	0	0	84.21053	100	100	100	95	0	0	0	100	0
ORF1ab_A1306S	67.77778	25	100	0	0	84.21053	98.07692	100	100	95	0	0	0	100	0
ORF1ab_V2930L	67.40741	25	98.83721	0	0	84.21053	98.07692	100	100	95	0	0	0	100	0
ORF7b_T40I	67.03704	25	97.67442	0	0	84.21053	100	100	92.30769	95	0	0	0	100	0
S_N501Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P1640L	32.22222	75	1.162791	100	100	15.78947	1.923077	0	0	5	100	100	100	0	100
ORF1ab_V3718A	22.96296	75	0	100	100	15.78947	0	0	0	5	100	100	100	0	100
S_P681H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20262	2.962963	25	0	0	100	0	0	0	0	5	100	100	100	0	0
S_T95I	14.44444	25	2.325581	0	0	10.52632	0	71.42857	30.76923	0	0	0	0	66.66667	0
N_M234I	0	0	0	33.33333	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P309L	11.85185	25	0	0	100	0	1.923077	0	0	5	100	100	100	0	0
ORF1ab_silent_1267	11.85185	25	0	0	100	0	1.923077	0	0	5	100	100	100	0	0
ORF1ab_L3352F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_S24L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12946	2.962963	25	0	0	100	0	0	0	0	5	100	100	100	0	0
ORF1ab_P1570L	0.37037	25	0	0	100	0	0	0	0	5	100	100	100	0	0
ORF7a_L116F	2.962963	25	0	0	92.85714	0	0	0	0	5	100	100	66.66667	0	0
S_del_3_21991	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_L18F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T3750I	20.37037	50	0	100	0	15.78947	0	0	0	0	0	0	0	0	100
ORF1ab_silent_13019	20.37037	50	0	100	0	15.78947	0	7.142857	0	0	0	0	0	0	100
ORF1ab_silent_13860	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0
ORF1ab_silent_18877	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_P26S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_A222V	20	50	0	100	0	15.78947	0	0	0	0	0	0	0	0	100
S_H655Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_D138Y	0	0	0	0	0	0	0	0	7.692308	0	0	0	0	0	0
S_R190S	0	0	0	0	0	0	0	0	7.692308	0	0	0	0	0	0
S_T20N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_ins4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K1795Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S1898F	0	0	0	0	100	0	0	0	0	5	100	100	0	0	0
N_S194L	0.37037	0	0	0	0	0	0	0	0	5	0	0	0	0	0
ORF1ab_S1188L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P199L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_K417N	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100
ORF1ab_silent_733	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1264D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_K417T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T1027I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_V1176F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_S253P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_E92K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P80R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_del_6_21765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2749	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28877	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28878	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5584	19.62963	50	0	100	0	15.78947	0	0	0	0	0	0	0	0	100
S_T716I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_T11I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_P42L	1.481481	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L3201P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S494P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P67S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_A701V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N1653D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S538A	0	0	0	0	100	0	1.923077	0	0	5	100	0	0	0	0
ORF1ab_M2417I	0	0	0	0	100	0	0	0	0	5	100	0	0	0	0
M_silent_26681	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D1183Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29362	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_G172V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19839	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S13I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_W152C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_E33V	0	0	1.162791	0	85.71429	0	0	0	0	5	100	0	0	0	0
S_L5F	1.111111	0	1.162791	0	0	0	1.923077	0	0	0	0	0	0	0	0
ORF1ab_D2183Y	0	0	0	0	85.71429	0	0	0	0	5	100	0	0	0	0
ORF1ab_Q998H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_silent_28253	8.518519	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_D155Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T4087I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_N679K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14676	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5986	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0
S_silent_25279	0	0	0	0	64.28571	0	0	0	0	5	100	0	0	0	0
S_S982A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_913	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_silent_27213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_D253G	0	0	0	0	0	0	0	0	0	0	33.33333	0	0	0	0
ORF1ab_T1001I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2230T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_silent_27923	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_15279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_S235F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_A570D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R2613C	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_W258L	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
N_D3L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1257V	17.77778	0	0	0	0	0	0	0	23.07692	95	0	0	0	0	0
S_silent_24208	17.40741	0	0	0	0	0	0	0	23.07692	95	0	0	0	0	0
ORF1ab_silent_1912	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G519S	2.962963	0	0	0	0	0	1.923077	0	0	45	0	0	66.66667	0	0
ORF8_A65V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_T391I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1708D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29095	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
ORF1ab_A1219S	1.111111	0	0	0	0	0	0	0	0	0	0	0	0	0	33.33333

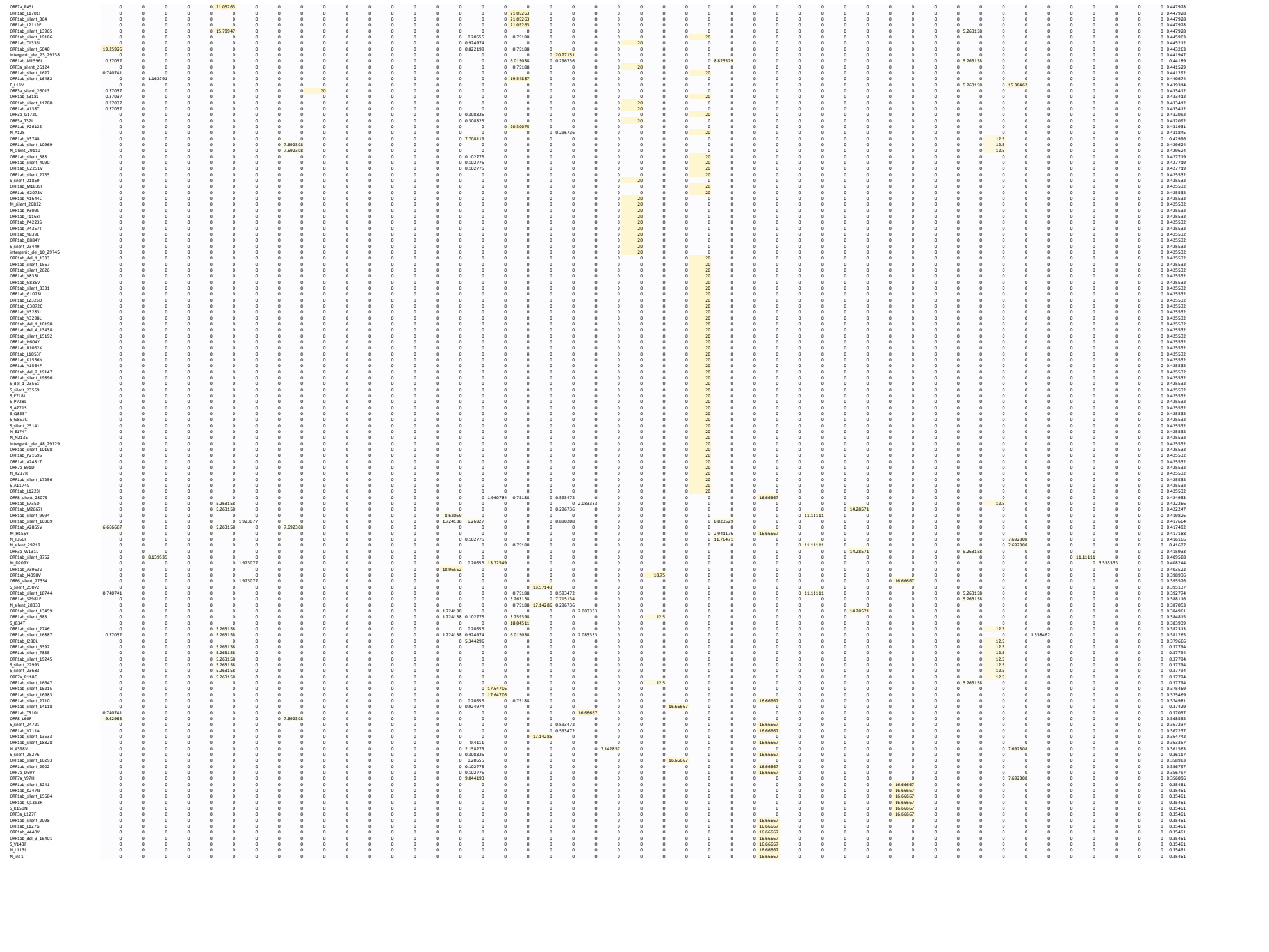
	B.1.243	B.1.1.7	R.1	B.1.2	B.1.637	B.1.526	B.1.575	B.1.234	B.1.110.3	B.1.596	B.1.311	B.1.409	B.1.1.519	B.1.433	B.1.1.434	B.1.595
ORF1ab_silent_3037	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
S_D614G	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
intergenic_NA	100	99.89723	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ORF1ab_P314L	100	99.79445	100	99.24812	100	99.70326	100	100	100	100	100	100	100	100	100	100
intergenic_del_1_28271	1.724138	37.20452	100	1.503759	98.57143	99.40653	100	0	0	0	0	0	0	0	0	0
ORF3a_Q57H	0	0	0	99.24812	100	99.40653	100	0	90	100	100	0	0	100	16.66667	100
N_D377Y	0	0.102775	7.843137	57.14286	0	0.296736	0	0	90	0	0	0	0	100	0	0
M_I82T	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
S_L452R	0	0	0	0	98.57143	0.296736	0	0	0	0	0	0	0	0	0	0
S_D950N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T265I	0	0.20555	0	100	100	100	100	0	0	100	100	0	0	100	0	100
N_R203M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G662S	0	0	0	1.503759	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P1000L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_S26L	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0
S_P681R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_D63G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T478K	0	0	0	0	0	0.296736	0	0	0	0	0	0	97.05882	0	0	0
S_T19R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_T120I	0	0.20555	0	1.503759	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_V82A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_del_6_22029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_del_6_28248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T3255I	0	0	0	0.75188	0	0	97.91667	92.85714	0	0	0	0	100	0	0	0
N_T205I	0	0	0	0	100	0.296736	100	0	0	0	0	0	0	100	0	100
ORF1ab_del_9_11288	0	99.89723	0	0	100	100	0	0	0	0	0	0	0	0	16.66667	0
ORF1ab_A3209V	0	0	0	0	100	0	0	0	70	0	0	0	0	0	0	0
N_R203K	0	98.66393	98.03922	0	0	0.593472	0	0	0	0	0	0	97.05882	0	100	0
N_G204R	0	98.66393	98.03922	0	0	0.593472	0	0	0	0	0	0	97.05882	0	100	0
S_E484K	0	0.20555	96.07843	0.75188	0	67.35905	0	0	0	0	0	0	0	0	16.66667	0
ORF1ab_A1918V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P2046L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G215C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P2287S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_8986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T3646A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1306S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V2930L	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_T40I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_N501Y	5.172414	98.3556	0	1.503759	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P1640L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V3718A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_P681H	98.27586	99.69168	0	0.75188	0	0.296736	100	0	0	0	0	0	100	0	0	0
ORF1ab_silent_20262	0	0	0	0.75188	18.57143	99.40653	0	0	0	0	0	0	0	0	0	0
S_T95I	0	0.4111	0	1.503759	0	100	0	0	0	0	0	0	0	0	50	0
N_M234I	0	0	0	0	98.57143	75.96439	0	0	0	0	0	0	0	0	0	0
ORF1ab_P309L	0	0.4111	1.960784	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L3352F	0	0.20555	0	100	0	0	0	0	0	100	0	0	0	0	0	100
ORF8_S24L	1.724138	0	0	98.49624	0	0	0	0	0	87.5	0	0	0	0	0	100
ORF1ab_silent_12946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P1570L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_L116F	0	0	0	0	0	24.03561	0	0	0	0	0	0	0	0	0	0
S_del_3_21991	0	99.38335	1.960784	0.75188	98.57143	3.857567	0	0	0	18.75	0	0	0	0	0	0
S_L18F	0	0.102775	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0
ORF1ab_T3750I	0	0	0	0.75188	0	0	100	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13019	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13860	0	0	0	0.75188	0	0	0	0	0	12.5	0	0	0	0	0	0
ORF1ab_silent_18877	0	0.61665	100	0	0	0.593472	2.083333	0	0	0	0	0	0	0	0	0
S_P26S	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20268	98.27586	0	0	0	0	0	0	100	0	0	8.333333	100	0	0	0	0
S_A222V	0	0	41.17647	0	0	0.890208	0	0	0	0	0	0	0	0	0	0
S_H655Y	0	0.102775	0	0.75188	0	0	0	0	0	0	0	20	0	0	0	0
S_D138Y	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0
S_R190S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T20N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_ins4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K1795Q	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S1898F	0	0	0	0	0	3.560831	0	0	0	0	0	0	0	0	0	0
N_S194L	96.55172	0	0	0	0	0	0	100	0	0	0	100	0	0	0	0
ORF1ab_S1188L	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P199L	0	0	0	99.24812	0	75.96439	0	0	0	100	0	0	0	0	0	0
S_K417N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_733	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1264D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_K417T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T1027I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_V1176F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_S253P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_E92K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P80R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_del_6_21765	1.724138	100	3.921569	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2749	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28877	0	2.363823	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28878	0	2.363823	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T716I	0	99.69168	0	0	0	0.296736	100	0	0	0	0	0	0	0	0	0
ORF8_T11I	0	0	0	5.263158	100	99.70326	0	0	0	0	0	0	0	0	16.66667	0
ORF3a_P42L	0	0	0	0.75188	100	100	0	0	0	0	0	0	0	0	16.66667	0
ORF1ab_L3201P	0	0	0	0.75188	98.57143	100	0	0	0	0	0	0	0	0	0	0
S_S494P	0	0	0	22.55639	0	0	97.91667	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6319	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P67S	0	0.102775	0	96.99248	0	0	0	0	0	100	0	0	0	0	0	0
S_A701V	3.448276	0	0	0.75188	0	75.96439	0	0	0	0	0	0	0	0	16.66667	0
ORF1ab_N1653D	0	0	0	99.24812	0	0	0	0	0	100	0	0	0	0	0	0
ORF1ab_S538A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_M2417I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_silent_26681	0	0.102775	0	1.503759	0	1.780415	0	0	0	0	0	0	0	0	0	0
ORF1ab_D1183Y	3.448276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6730	0	0	0	0	0	0	97.91667	0	0	0	0	0	0	0	0	0
N_silent_29362	0	0	0	0	1.428571	0	0	0	0	0	0	0	0	0	0	0
ORF3a_G172V	0	0	0	98.49624	0	0	0	0	0	100	0	0	0	0	0	0
ORF1ab_silent_19839	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0
S_S13I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_W152C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_E33V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_L5F	0	5.858171	0	1.503759	1.428571	99.40653	6.25	0	0	0	8.333333	0	0	0	16.66667	0
ORF1ab_D2183Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Q998H	0	0	0	1.503759	0	0.296736	0	0	0	0	0	0	0	0	100	0
ORF8_silent_28253	0	0	0	0	0	0	0	78.57143	0	0	0	0	0	0	0	0
ORF3a_D155Y	0	0.102775	0	0	0	0	0	0	0	0	0	80	0	0	0	0
ORF1ab_T4087I	0	0.924974	0	0	0	0	0	71.42857	0	0	100	0	0	0	0	0
S_N679K	0	0	0	0	0	0	0	78.57143	0	0	0	0	0	0	0	0
ORF1ab_silent_14676	0	100	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5986	0	99.79445	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0
S_silent_25279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S982A	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_913	0	99.89723	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_silent_27213	0	0.102775	100	0	0	0.890208	0	0	0	0	0	0	0	0	0	0
S_D253G	0	0.102775	0	0	0	98.81306	0	0	0	0	0	0	0	0	0	0
ORF1ab_T1001I	0	99.79445	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2230T	0	99.28058	0	0.75188	1.428571	0	0	0	0	0	0	0	0	0	0	0
ORF8_silent_27923	41.37931	0.102775	0	0	0	0	0	0	0	0	8.333333	0	0	0	0	0
ORF1ab_silent_15279	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_S235F	0	98.3556	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0
S_A570D	0	99.79445	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R2613C	0	0	1.960784	99.24812	0	0	0	0	0	31.25	0	0	0	0	0	0
S_W258L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_D3L	0	99.79445	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1257V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1912	1.724138	0.20555	0	0	7.142857	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G519S	0	0.102775	0	0	2.857143	0.296736	0	0	0	0	0	0	0	0	0	0
ORF8_A65V	0	0.102775	0	0	0	0.296736	0	0	0	0	0	0	44.11765	0	0	0
N_T391I	0	0	0	0	0	2.373887	0	7.142857	0	0	100	0	0	0	0	0
ORF1ab_A1708D	1.724138	99.69168	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29095	0	0.20555	0	1.503759	0	0.890208	0	0	0	0	0	0	0	0	0	33.33333
ORF1ab_A1219S	0	0.102775	0	0	0	0	6.25	0	0	0	0	0	0	0	100	0

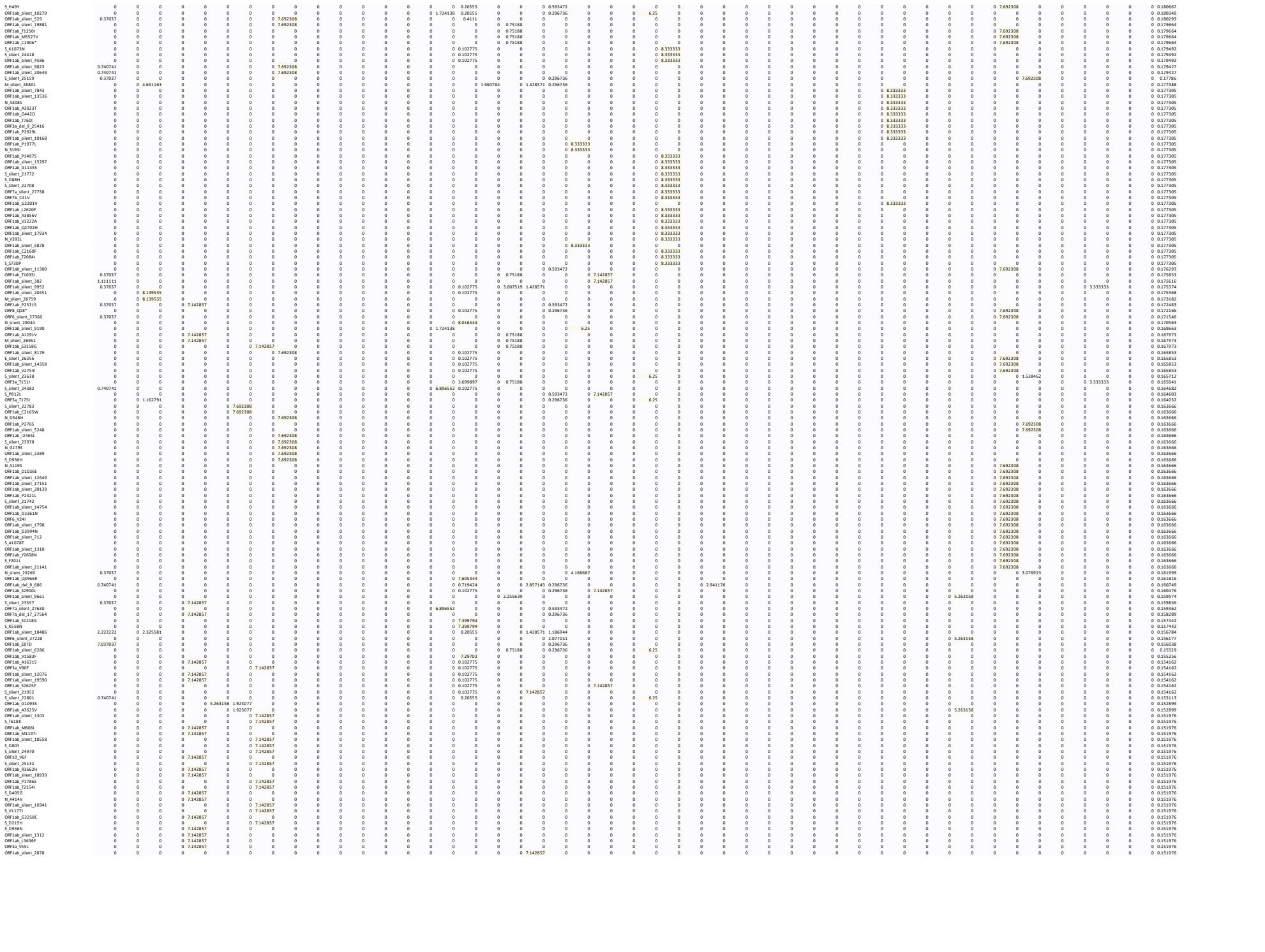
	B.1.429	B.1.427	B.1.351	B.1.588	B.1.525	B.1.623	P.1.10	B.1	None	B.1.1	P.1	B.1.111	P.1.2	B.1.621	B.1.369	B.1.520	cumulative
ORF1ab_silent_3037	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
S_D614G	100	100	100	100	100	100	100	100	100	100	100	100	100	96.66667	100	100	99.92908
intergenic_NA	100	100	100	100	100	100	100	94.73684	100	100	100	100	100	100	100	100	99.83703
ORF1ab_P314L	100	100	85.71429	100	0	100	100	100	100	100	100	100	100	100	100	100	97.5417
intergenic_del_1_28271	0	0	0	0	0	0	0	10.52632	75	30.76923	0	0	0	0	0	0	42.44017
ORF3a_Q57H	100	100	100	100	0	100	0	57.89474	37.5	7.692308	1.538462	100	0	96.66667	100	100	40.56624
N_D377Y	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	38.1465
M_I82T	0	0	0	0	100	0	0	0	25	0	0	0	0	0	0	0	36.66121
S_L452R	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.29779
S_D950N	0	0	0	0	0	0	0	0	12.5	0	0	0	0	96.66667	0	0	33.30073
ORF1ab_T265I	100	100	100	100	0	100	0	36.84211	12.5	15.38462	0	0	0	0	100	100	33.29643
N_R203M	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	32.96296
ORF1ab_G662S	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	32.82159
ORF1ab_P1000L	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	32.7896
ORF3a_S26L	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	32.72539
S_P681R	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	32.71277
N_D63G	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	32.64184
S_T478K	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	32.4777
S_T19R	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	32.44681
ORF7a_T120I	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	32.05494
ORF7a_V82A	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	31.37977
S_del_6_22029	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	31.01086
ORF8_del_6_28248	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	30.91035
ORF1ab_T3255I	0	0	0	0	0	0	0	0	50	0	0	0	0	100	0	0	25.83521
N_T205I	100	100	100	0	100	0	0	0	0	7.692308	0	100	0	96.66667	0	0	21.37565
ORF1ab_del_9_11288	0	0	100	0	100	0	100	5.263158	37.5	23.07692	100	0	100	3.333333	0	0	18.84547
ORF1ab_A3209V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.68166
N_R203K	0	0	0	0	0	0	100	42.10526	25	92.30769	100	0	100	0	0	0	18.16528
N_G204R	0	0	0	0	0	0	100	42.10526	25	92.30769	100	0	100	0	0	0	18.16528
S_E484K	0	0	100	0	100	0	100	0	25	23.07692	96.92308	0	100	90	0	0	17.52668
ORF1ab_A1918V	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	17.48911
ORF1ab_P2046L	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	17.45608
N_G215C	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	17.40701
ORF1ab_P2287S	0	0	0	0	0	0	0	0	37.5	7.692308	0	0	0	0	0	0	17.37106
ORF1ab_silent_8986	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	17.22316
ORF1ab_T3646A	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	17.22316
ORF1ab_silent_11332	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	17.22316
ORF1ab_A1306S	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	17.18224
ORF1ab_V2930L	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	17.15181
ORF7b_T40I	0	0	0	0	0	0	0	0	37.5	0	0	0	0	0	0	0	16.99425
S_N501Y	0	0	100	0	0	100	100	0	50	23.07692	98.46154	0	100	93.33333	0	0	16.38093
ORF1ab_P1640L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.55527
ORF1ab_V3718A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.29261
S_P681H	0	0	0	0	0	100	0	21.05263	50	15.38462	0	0	0	96.66667	0	0	14.51319
ORF1ab_silent_20262	0	0	0	0	0	0	0	10.52632	0	7.692308	0	0	0	0	0	0	12.12577
S_T95I	0	0	0	0	8.333333	0	0	10.52632	25	7.692308	0	0	0	96.66667	0	0	11.09137
N_M234I	44.44444	0	0	100	0	100	0	5.263158	12.5	7.692308	0	0	0	0	0	0	10.1653
ORF1ab_P309L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.492485
ORF1ab_silent_1267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.44202
ORF1ab_L3352F	0	0	0	100	0	0	0	21.05263	12.5	7.692308	0	0	0	0	0	0	9.392564
ORF8_S24L	0	0	0	100	0	0	0	26.31579	0	23.07692	0	0	0	0	0	0	9.300279
ORF1ab_silent_12946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.211978
ORF1ab_P1570L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.156816
ORF7a_L116F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.862178
S_del_3_21991	0	0	0	0	100	0	0	0	50	30.76923	1.538462	0	0	0	0	0	8.637299
S_L18F	0	0	85.71429	0	0	0	100	0	12.5	0	100	0	100	3.333333	0	0	8.564694
ORF1ab_T3750I	0	0	0	0	0	0	0	0	0	7.692308	0	0	0	0	0	0	8.39583
ORF1ab_silent_13019	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.372516
ORF1ab_silent_13860	0	0	0	0	0	0	100	0	12.5	0	100	0	100	0	0	0	7.462806
ORF1ab_silent_18877	0	0	0	0	0	0	0	10.52632	25	7.692308	0	100	0	100	0	0	7.372597
S_P26S	22.22222	0	0	0	0	0	100	0	12.5	0	100	0	100	0	0	0	7.123936
ORF1ab_silent_20268	0	0	0	0	0	0	0	26.31579	0	0	0	0	0	0	0	0	7.08351
S_A222V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.975663
S_H655Y	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.826695
S_D138Y	0	0	0	0	0	0	100	0	12.5	0	98.46154	0	100	0	0	0	6.798053
S_R190S	0	0	0	0	0	0	100	0	12.5	0	96.92308	0	100	0	0	0	6.747136
S_T20N	0	0	0	0	0	0	100	0	12.5	0	100	0	100	0	0	0	6.648936
intergenic_ins4	0	0	0	0	0	0	100	0	12.5	0	100	0	100	0	0	0	6.648936
ORF1ab_K1795Q	0	0	0	0	0	0	100	0	12.5	0	98.46154	0	100	0	0	0	6.61839
ORF1ab_S1898F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.565124
N_S194L	0	0	0	0	0	0	0	5.263158	0	0	0	0	0	0	0	0	6.535856
ORF1ab_S1188L	0	0	0	0	0	0	100	5.263158	0	0	100	0	100	0	0	0	6.501521
N_P199L	0	0	0	0	0	0	0	5.263158	25	0	0	0	0	0	0	0	6.499482
S_K417N	0	0	100	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	6.453901
ORF1ab_silent_733	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
ORF1ab_silent_12778	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
ORF1ab_E1264D	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
S_K417T	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
S_T1027I	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
S_V1176F	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
ORF3a_S253P	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
ORF8_E92K	0	0	0	0	0	0	100	0	0	0	100	0	100	0	0	0	6.382979
N_P80R	0	0	0	0	0	0	100	0	0	0	98.46154	0	100	0	0	0	6.350245
S_del_6_21765	11.11111	0	0	0	100	0	0	0	37.5	38.46154	1.538462	0	0	3.333333	0	0	6.331705
ORF1ab_silent_2749	0	0	0	0	0	0	100	0	0	0	96.92308	0	100	0	0	0	6.329766
ORF1ab_silent_6613	0	0	0	0	0	0	88.88889	5.263158	0	0	100	0	100	0	0	0	6.258554
N_silent_28877	0	0	0	0	0	0	88.88889	0	0	0	100	0	100	0	0	0	6.196866
N_silent_28878	0	0	0	0	0	0	88.88889	0	0	0	100	0	100	0	0	0	6.196866
ORF1ab_silent_5584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.072747
S_T716I	0	0	0	0	0	0	0	0	25	23.07692	0	0	0	3.333333	0	0	5.348908
ORF8_T11I	0	0	0	0	0	0	0	10.52632	0	7.692308	0	0	0	0	0	0	5.103228
ORF3a_P42L	0	0	0	0	0	0	0	10.52632	0	0	0	0	0	0	0	0	4.881412
ORF1ab_L3201P	0	0	0	0	0	0	0	10.52632	12.5	0	0	0	0	0	0	0	4.730843
S_S494P	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	4.690916
ORF1ab_silent_6319	0	0	0	0	0	0	100	5.263158	0	0	100	0	11.11111	0	0	0	4.605895
N_P67S	0	0	0	0	0	0	0	10.52632	0	7.692308	0	0	0	0	0	0	4.581146
S_A701V	0	0	100	0	0	0	0	10.52632	0	7.692308	0	0	0	0	0	0	4.575528
ORF1ab_N1653D	0	0	0	0	0	0	0	0	12.5	0	0	0	0	0	0	0	4.505279
ORF1ab_S538A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.402619
ORF1ab_M2417I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.361702
M_silent_26681	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.335262
ORF1ab_D1183Y	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.328687
ORF1ab_silent_6730	0	0	0	0	0	100	0	5.263158	0	0	0	0	0	0	0	0	4.322975
N_silent_29362	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.293595
ORF3a_G172V	0	0	0	0	0	0	0	0	0	0	1.538462	0	0	0	0	0	4.256057
ORF1ab_silent_19839	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.255319
S_S13I	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.255319
S_W152C	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.255319
ORF7b_E33V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.082491
S_L5F	0	0	0	37.5	0	0	0	10.52632	0	0	0	0	0	0	0	0	4.078092
ORF1ab_D2183Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.057751
ORF1ab_Q998H	0	0	0	0	0	0	0	0	0	0	0	0	0	86.66667	0	0	4.00994
ORF8_silent_28253	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	3.980637
ORF3a_D155Y	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	3.839854
ORF1ab_T4087I	0	0	0	0	0	0	0	0	0	7.692308	0	0	0	0	0	0	3.830763
S_N679K	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	3.799392
ORF1ab_silent_14676	0	0	0	0	0	0	0	0	37.5	30.76923	0	0	0	3.333333	0	0	3.674996
ORF1ab_silent_5986	0	0	0	0	0	0	0	0	37.5	7.692308	0	0	0	0	0	0	3.63568
S_silent_25279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.601824
S_S982A	0	0	0	0	0	0	0	0	37.5	30.76923	0	0	0	0	0	0	3.580196
ORF1ab_silent_913	0	0	0	0	0	0	0	0	25	38.46154	0	0	0	0	0	0	3.491716
ORF6_silent_27213	22.22222	0	0	0	0	0	0	0	25	15.38462	0	0	0	0	0	0	3.480847
S_D253G	0	0	0	0	0	0	0	10.52632	12.5	7.692308	0	0	0	0	0	0	3.4674
ORF1ab_T1001I	0	0	0	0	0	0	0	0	37.5	23.07692	0	0	0	0	0	0	3.41847
ORF1ab_I2230T	0	0	0	0	0	0	0	0	37.5	15.38462	1.538462	0	0	0	0	0	3.316683
ORF8_silent_27923	0	0	0	0	0	100	0	5.263158	0	0	0	0	0	0	0	0	3.299544
ORF1ab_silent_15279	0	0	0	0	0	0	0	0	37.5	15.38462	0	0	0	0	0	0	3.252864
N_S235F	0	0	0	0	0	0	0	5.263158	25	23.07692	0	0	0	0	0	0	3.243565
S_A570D	0	0	0	0	0	0	0	0	25	23.07692	0	0	0	3.333333	0	0	3.233119
ORF1ab_R2613C	0	0	0	0	0	0	0	10.52632	0	7.692308	0	0	0	0	0	0	3.221665
S_W258L	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.191489
N_D3L	0	0	0	0	0	0	0	0	25	23.07692	0	0	0	0	0	0	3.162197
ORF1ab_I1257V	0	0	0	0	0	0	0	0	12.5	0	0	0	0	0	0	0	3.156483
S_silent_24208	0	0	0	0	0	0	0	0	12.5	0	0	0	0	0	0	0	3.148603
ORF1ab_silent_1912	22.22222	0	14.28571	0	0	0	0	0	0	0	0	0	100	0	0	0	3.105337
ORF1ab_G519S	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.08105
ORF8_A65V	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.074833
N_T391I	0	25	0	0	0	0	0	0	0	7.692308	0	0	0	0	0	0	3.025725
ORF1ab_A1708D	0	0	0	0	0	0	0	0	25	15.38462	0	0	0	0	0	0	3.01703
N_silent_29095	0	0	0	0	0	0	0	5.263158	0	0	0	0	0	0	0	0	3.00417
ORF1ab_A1219S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.995686

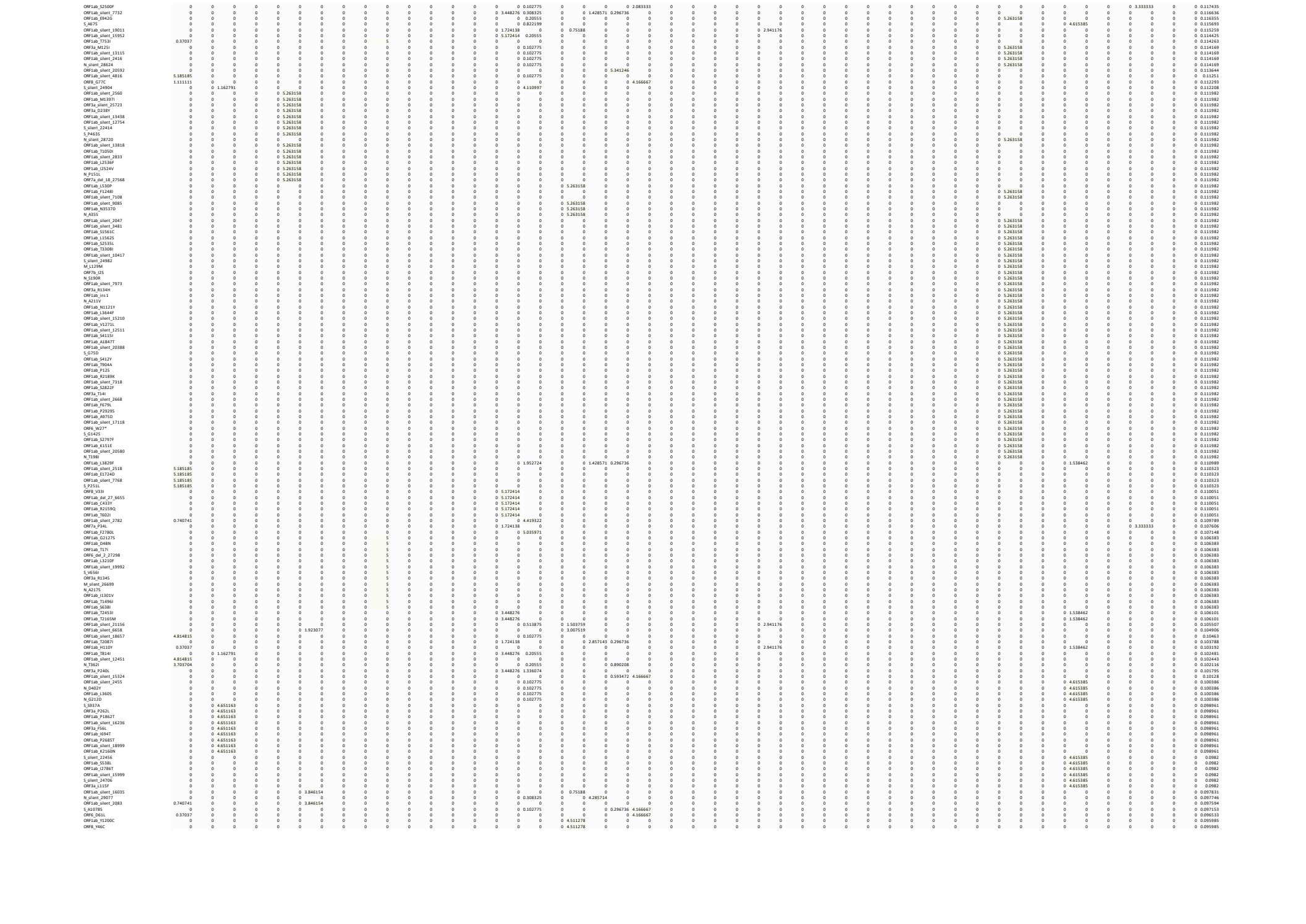












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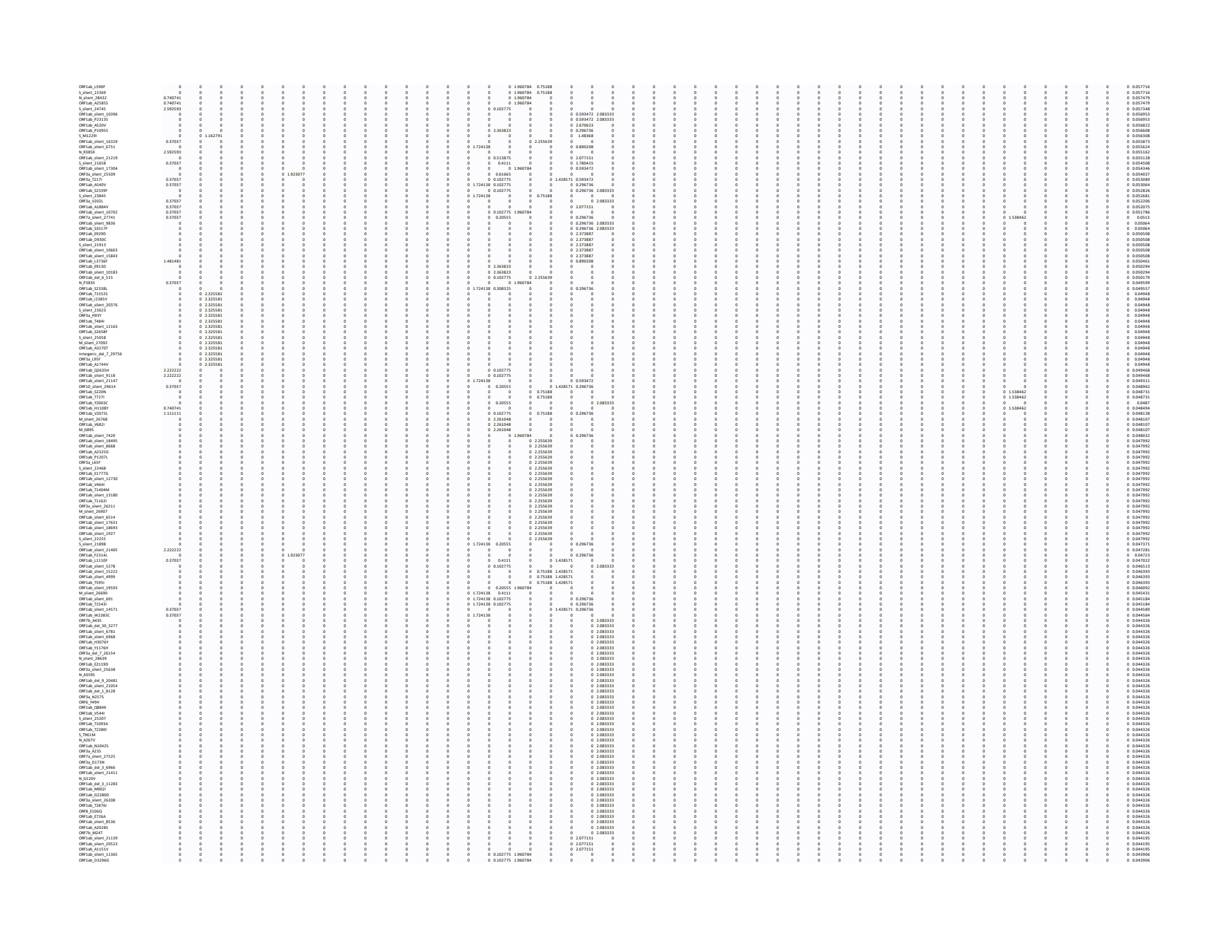
ORF1ab_V1649F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF8_ins3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_R43C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_V5I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_silent_1381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_silent_4708	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_silent_25267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_A565V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_silent_17955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_I2616V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
N_Q229H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
N_T391A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF1ab_silent_15816	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_Y145F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_R346H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_E484C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_N501H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_D614S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_P681F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_D950S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF3a_Q57F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF8_T11H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF8_P38V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
ORF8_S67W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
N_P80Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
N_T115R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
N_T205G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.333333	0	0	0.070922
S_silent_22432	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.070857
N_silent_29353	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.070458
ORF1ab_silent_4900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.288798	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.069974
ORF1ab_S3264G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.264095	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.069449
ORF1ab_E1184D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	2.857143	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.069291
S_E583D	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.538462	0	0	0	0	0	0.068865
ORF7b_F19L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	0	0	1.503759	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.068679
ORF6_T21I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06867
N_R14C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	1.438849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.067298
ORF10_R24C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	0	0	0	1.428571	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.067079
ORF1ab_silent_6395	0	0	2.325581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065478
S_L176F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.076923	0	0	0	0	0	0.065466
S_silent_23005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.076923	0	0	0	0	0	0.065466
ORF1ab_silent_871	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.076923	0	0	0	0	0	0.065466
ORF1ab_silent_1150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.076923	0	0	0	0	0	0.065466
N_silent_28621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.076923	0	0	0	0	0	0.065466
S_silent_25354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.890208	2.083333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065454
ORF1ab_I671V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.644399	0	0	1.428571	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065382
ORF1ab_T2152I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	2.967359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065322
S_silent_21727	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	0	0	0.75188	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065308
S_S680F	2.962963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065228
ORF1ab_L642F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.065164
ORF7b_S31L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.064765
ORF7a_I110T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.064765
ORF1ab_G98V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.064765
ORF1ab_T891I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.503759	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.538462	0	0	0	0	0	0.064728
ORF1ab_silent_18747	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	2.083333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.064697
ORF7a_A105V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_N1691S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
S_silent_24517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_E2904D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_N1113D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
S_I68M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
S_Q1011R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_silent_19239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_silent_20115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_L2497I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF8_C20R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_silent_13444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF7a_E95Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF7a_del_12_27680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_P1220L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_V3048L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_F947L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_S1985L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF7a_silent_27528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.007519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06399
ORF1ab_Q3826H	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.255639	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063753
ORF1ab_silent_15763	0	0	0	0	0	0	1.923077	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063228
ORF1ab_silent_8527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.967359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063135
ORF1ab_silent_18582	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.967359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063135
S_M1229T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.967359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063135
ORF1ab_silent_14361	2.962963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063042
M_silent_26864	2.962963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.063042
S_G446V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062748
ORF1ab_S1003G	0	0	2.325581	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062601
ORF1ab_V2522F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_S3386A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_17319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF3a_Q38L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
intergenic_del_1_26499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
N_T362A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
N_P368S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_S428N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_14325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_277	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_H1818R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
S_silent_22897	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF10_F9S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_A1432E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_S1433T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_V2703L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_9943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_R1813H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
S_A1174V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_E952A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_3403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF3a_G49C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_4780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_10135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_D978Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_T1788M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF10_A28V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_841	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
S_L945F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
N_del_1_28755	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_15765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_G572E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_S2638F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.941176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062578
ORF1ab_silent_7604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.503759	1.428571	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06239
S_E654Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	0	0	0	0	1.186944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.061938
ORF1ab_G2297C	0	0	1.162791	0	0	0	0	0	0	0	0	0	0	0	0	1.724138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.061424
ORF1ab_silent_7984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.877698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.061228
ORF1ab_silent_9073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	2.670623	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.061195
ORF1ab_silent_8020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_11212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_17508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_K2063R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_19845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_19452	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF6_R20K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_11020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_5467	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF6_ins19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF7a_del_5_27682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_V2027A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_7249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_Q1021H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_17772	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.857143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06079
ORF1ab_silent_11455	0	0	0	0	0	0	1.923077	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.059101
ORF3a_S74F	0	0	2.325581	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.058227
E_L73F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	1.960784	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.058099
ORF1ab_silent_12781	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	1.428571	1.186944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.057836
ORF1ab_K3577N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.960784	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.057716
N_G30R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.960784	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.057716
S_silent_24370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.960784	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.057716



S_silent_22747	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022558
ORF1ab_A3523V	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022321
ORF1ab_T1354I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022311
ORF1ab_T4311I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022311
S_P809S	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022074
N_silent_29260	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022074
ORF1ab_L3919F	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022074
ORF1ab_K1948R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.027749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021867
ORF7a_S81L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.027749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021867
ORF7b_L32F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.027749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021867
ORF1ab_E1223A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.027749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021867
ORF1ab_T3959N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.027749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021867
ORF1ab_silent_14937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.027749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021867
S_silent_22054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021127
N_T141I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021127
ORF1ab_silent_12079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021127
N_K256N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020507
N_P364S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020371
ORF1ab_T4265I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020371
S_silent_22388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020371
ORF1ab_silent_9532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020371
M_silent_27074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020371
ORF1ab_A88V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020371
ORF1ab_silent_6896	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020134
ORF1ab_A591V	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020134
ORF1ab_silent_10195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.924974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01968
ORF8_C61F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.924974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01968
S_silent_22834	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.924974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01968
S_D1118Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.924974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01968
ORF3a_W45L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.924974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01968
ORF1ab_G4086C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.924974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01968
ORF1ab_A2513V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.019434
S_silent_22498	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.019187
ORF1ab_T2977I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
N_P365L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_3151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_17472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF6_silent_27261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF3a_silent_25584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_17925	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_15978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_D2101Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_K1281Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_V3057A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_F3770V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_14694	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_1030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_1834	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
N_D348Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
S_K77N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF10_Y3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_N2737S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_14403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
N_R226K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_E948D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
M_A188S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF3a_silent_25590	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_7948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
S_silent_24073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
M_M109I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_V303A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_V26M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_14191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
ORF1ab_silent_17667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.890208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018941
N_silent_28435	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.513875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018814
S_T572I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.513875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018814
ORF1ab_silent_7204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_silent_14928	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
N_P326L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_T1874I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF3a_I20T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_silent_13072	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_silent_14103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF7a_P99S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_P1786L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_T1050A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
M_A85V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
S_silent_22729	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
M_silent_26858	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_silent_20016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_R2308C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.018184
ORF1ab_S2103F	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017947
ORF10_D31Y	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017947
ORF1ab_silent_5144	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017947
ORF1ab_A138V	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017947
ORF1ab_silent_20670	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017947
ORF1ab_silent_13297	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.822199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017494
S_V327I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.822199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017494
ORF1ab_S2285F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017
ORF1ab_S166G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017
ORF1ab_silent_11782	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017
ORF1ab_silent_6634	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016627
N_silent_29341	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01638
ORF3a_L129F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_F307L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_V595I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_14599	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_A414S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF8_E64D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_I1074V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V1961I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_22207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
M_N43S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
M_silent_26837	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
M_S197T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_805	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_D178N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_ins3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_19803	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_21357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
intergenic_del_21_29738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_P864S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_G963S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_I2244T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V628I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_19662	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_C936R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_7351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_M2439L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_S117C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_D51N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_4843	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_I1848V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_6646	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V3718F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_T4368I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_20808	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_V90F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_23248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_E658G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_Q990L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_I2076T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_R1365Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_18525	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_20823	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_24983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_I10L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_A99V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_5362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_V1228A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_T2274I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_N149S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_15126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997

ORF1ab_C1880F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_6548	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_3049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_3382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_H2092N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_K1863R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_I236T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
E_silent_26301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_Q272K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_D1933G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A4028S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_23791	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_8584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A4277S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_13216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_21390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_E1111Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_N2023K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_L1698F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_S1612T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V2237G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_P3134S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_K1270N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
M_silent_27119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_2095	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_T2906I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_21760	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_G1035V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_15615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF7a_S36F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_P67F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_G85S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_D1848Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_19017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_20811	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_22594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
M_silent_27053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_S3421F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_L922F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_S723P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_21204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_silent_28411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_M2365I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_T274I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_2734	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V2047I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_8822	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_P13T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_C873Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A2637T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_K1233E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_Q3777R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A434V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_E1819G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_L858F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_P85L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_9724	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_C13F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_16227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
M_silent_26567	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_P326S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_E2089K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_7531	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_E654K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_S4018F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_G1093C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_N3609S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_4768	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_E471G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_14718	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_9949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_E885K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_5155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_5377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_6385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A4285V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_K2579R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_Q244H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_S2407P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_7688	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_silent_28930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_D210N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_Y411S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_G268V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_K292N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_del_12_3331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_17751	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_V197L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_silent_26139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_silent_28594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
E_P71S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_silent_28498	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_Q389L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_G204E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V345L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_Q1198L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_L204I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_S997A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_silent_26148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
intergenic_del_19_29741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_I476V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_M4152V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_14016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A1832T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
E_V52I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_C13Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_15903	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
intergenic_del_1_26494	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_W2232C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_20238	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_P4223L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_G2342E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_G2545S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_M3129V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
S_silent_24313	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF7a_silent_27504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_3691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_G2893C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A1923T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
N_P20S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_A572T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_silent_16680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_P1427T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_D1503Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF3a_L73I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V365I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_K1094R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.75188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015997
ORF1ab_V3077I	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF7a_del_19_27588	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF8_Y31F	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_12961	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_11686	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_1075	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_S3874L	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF8_R115C	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF3a_W69C	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_15012	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
S_H1101Y	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_15804	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_R1315C	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
S_N282S	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576

ORF1ab_I601S	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_18846	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_826	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF6_E46V	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_4192	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF7a_V82S	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
N_R203I	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_598	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
N_silent_28654	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_E2031A	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_19000	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
S_T676I	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_S216Y	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF7a_K2E	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF7a_A8T	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_P2005Q	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
N_K373N	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_A7V	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
intergenic_del_5_29752	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_7105	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_P1682L	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_20235	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_T1274I	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_R1078C	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
M_S4F	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF7a_P34F	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_1663	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_M598I	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_13728	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_D1381G	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_T1739I	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_20088	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
S_silent_22927	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF7a_T57N	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_D249Y	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
M_A69S	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF10_silent_29647	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_E633G	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_9286	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_6091	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_silent_13048	0.740741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01576
ORF1ab_A735V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF1ab_A1314V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF1ab_silent_13093	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
S_silent_24023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF1ab_D2136N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF1ab_silent_19059	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
S_Q779E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF1ab_T551I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF6_silent_27247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.719424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.015307
ORF1ab_A1443V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4111	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01506
S_silent_21721	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4111	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01506
ORF8_S82P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4111	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01506
ORF1ab_T4304I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014814
ORF1ab_L3313F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014814
ORF1ab_R4387S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014814
N_A50V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014814
ORF1ab_P1862S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014814
S_silent_23854	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014814
ORF1ab_V1295F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01444
ORF1ab_A3571V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01444
ORF1ab_silent_10747	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01444
ORF1ab_P2079L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01444
ORF1ab_S531R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
S_A871S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
ORF1ab_silent_19554	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
ORF1ab_T2823I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
ORF1ab_I2895V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
S_A924S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
ORF1ab_E743D	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.014194
ORF1ab_E1808D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_silent_12187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_silent_6070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
S_silent_23029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_silent_8281	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
N_silent_29437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_A1204T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF7a_silent_27462	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_S966P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_S1743F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF6_silent_27378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF7b_F28L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_K469N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF3a_A103S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_Q4015K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
S_silent_23518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF3a_P267S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_silent_2563	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
ORF1ab_silent_5992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01312
N_silent_29215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
S_silent_21637	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF3a_Q57Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
intergenic_del_32_29730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_N3029K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
N_Q7L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF7a_I100M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF3a_silent_25470	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_M1771T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_4966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_4901	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF7a_silent_27418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_19152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
S_D1084Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
N_Q242H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_T239I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_T385M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF3a_del_3_26159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_S3256T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_16954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_5915	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF8_G77S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_I3476T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
S_A570V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_7979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_13247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF3a_S177I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_20007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_M592I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
N_P168S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF7a_L5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_Q1799R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_L1145F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_I1118M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_P1666S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_P3359L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_5182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_D1848G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_S3913L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF7b_I2N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
N_R40C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_F92C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_10006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_V2090I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_I3898V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_14229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.593472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012627
ORF1ab_silent_11572	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012254
M_silent_27131	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012254
S_A243S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012254
ORF1ab_A2123V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.513875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.010934
N_silent_28804	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.513875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.010934

S_A222P	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_N389D	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_5410	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G3827R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_22687	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_silent_25827	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_21628	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF8_P85L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_Q245H	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_P122S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D156N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_6166	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_E601V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_S505F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_Y156H	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_S37F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_K374R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_K2511N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_S2972F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_23239	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_19089	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7b_silent_27878	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_V13L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_16338	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A1847V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_P62S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V1836F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_T11P	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_del_1_21736	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V337I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_6349	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_S3195G	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_11014	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G4177V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_L230F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V1236F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_22681	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF8_I71V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_1753	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G209C	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D827N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_L3084I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_M454V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_18645	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_H1610Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_15399	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_18285	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_del_7_27694	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_K261R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_8917	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D4117N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_P1223L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_Y264N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A117S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_P1220H	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_7975	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_17733	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_22357	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T1521I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_E661D	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_24790	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_17139	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_T76I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_silent_27576	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_silent_28708	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_5482	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G2534C	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V4147I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_2698	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_Q2574R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_E2661G	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V1052I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_S1468Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_silent_29440	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF8_silent_28094	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_18153	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_18477	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_L829I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_Q9L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_8656	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_K3632R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_24199	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_F46L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_I1206T	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D2835E	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_A570S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_11428	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_2272	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_12250	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T4354I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T1896I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_R237M	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_853	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_18441	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_23797	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_A381S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF10_S23P	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_1507	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_N278S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_3749	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_4564	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_7292	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_13258	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_P2169T	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_S2324G	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_5593	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G1509S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_13575	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_23359	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
E_C43F	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A2388V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V620I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_R718K	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D4166A	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D1228Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_1309	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T1216A	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_H2357Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_P1675S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_E367D	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_Q1519R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_R21I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_3286	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_11776	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF8_G50R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_A138S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_K2045Q	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_10411	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
M_silent_26894	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_6196	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_12088	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_20604	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_I3476V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_silent_25692	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_M260I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V38A	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T866I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_3244	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_14517	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_16989	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_M659I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_K1212N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G1450R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788

ORF1ab_silent_10579	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_13168	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_P1567S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_P631S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_I88V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_silent_28396	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_L1762I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_C357S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_3766	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_7558	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_10015	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
M_silent_27014	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_17154	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_15480	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_17562	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_G1251A	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D1024N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_I2010T	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_21129	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_silent_29185	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_Y215C	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF3a_silent_25836	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_1945	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_19938	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_Y955H	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_Y1464C	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_22631	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D2506G	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V2564A	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_N594D	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A2123T	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_13548	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_R78G	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF6_silent_27372	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF7a_A55T	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_N1181S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_24019	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_5539	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
M_silent_26570	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A3070V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
M_silent_26966	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_289	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T403I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G638S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_7138	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V543A	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_I2854L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_9214	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A1884S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_V1538L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_I431M	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_H1500Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_T2777I	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_M809V	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
S_silent_23632	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_A176S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_Q158R	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_F536L	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_F1190S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_18957	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
N_silent_29236	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_K2928N	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_D4190Y	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_3931	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_13831	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_G219S	0.37037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00788
ORF1ab_silent_20178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF7a_H73Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_20844	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_L1351F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_T1242N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_K151N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_I895V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_K1066R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
N_D297A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_A2616T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_9811	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_silent_23965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_580	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_A372T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF7a_G38V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_4990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_G465V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_S2024L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_K399R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_P479S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_silent_24292	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF3a_D155H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_1141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_F2215L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_silent_22651	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_16968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_T240I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_Q52H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_12499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF3a_R68T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF8_silent_28010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_S2030P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF3a_silent_25860	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_N2428S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_G142V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF8_F120V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
N_E136D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_K2775E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_V3107F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_18039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF8_R101L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_H1619Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_E57G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_17742	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_P2256S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_16020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_5020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF7b_H42Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_V1189F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_17931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_15216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
M_silent_26861	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
N_R10G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF10_del_2_29564	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_14841	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
N_S37P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
N_silent_28513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_silent_21812	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_14952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
S_E1202G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.308325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00656
ORF1ab_silent_1288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_11518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_28507	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_L767I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_A972S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_7231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_silent_23584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_13800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V2061F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_1885	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A903S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_20916	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_G18C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_A54S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_S2048P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_14712	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A2621V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314

ORF1ab_silent_19320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_28471	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_D909G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_G1073V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_17940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_silent_22984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_G174S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_S2246L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_12220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF6_silent_27321	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_T4065I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V1149A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_T1453I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_P368L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_5629	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_H2520N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_28748	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_H2388Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_16461	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_S2822P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A4092V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_18231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF6_silent_27234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_28747	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_4672	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
M_silent_26658	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_G376S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
E_S16I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A941V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_G1129V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_P25S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_A273S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_R2275W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_P821S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_A942S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_N1025S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF7a_Q90H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF8_L84I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V2580F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_V97I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_P2483S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A181V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_E1182Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_N189S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V2075F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_20364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF8_I71T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_L2518F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_G52C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_H1752R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_N148S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A3040V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_11833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_4720	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_del_11_26159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_T1599A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_21081	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_D81Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_L1933F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_M2254I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_D1146A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_T2069A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_Y71H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A3939T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_10360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_M115I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_silent_22843	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_13432	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF7a_F63L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_T2181I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V86F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_del_1_3550	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_P1096A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
M_L90F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_21201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF7b_silent_27785	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_I1227L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_18591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_M3280I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_E1977D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_T24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF7a_L7S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_9037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_G2843S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_15372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_16308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_19866	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_V1133I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_T325I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_8284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V2475I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF8_A51V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_4378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_9409	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_6532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_19488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_7195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_silent_26010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_29203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_I1203T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_6941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_T2836I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_11812	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_silent_23311	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_4634	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_4798	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_P1284S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V2522A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_E780D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A302V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_K636E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_2323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_6250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_V4372I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_G128S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_7564	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_28585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_silent_29485	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_P782L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_silent_22012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A3924V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_14073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_del_1_11860	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_I2554V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_del_1_23930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_Q1759R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_silent_23896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_6958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_A2268V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
N_P67L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_L204F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_silent_15396	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_S1055L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_K21N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_D27H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF1ab_E158A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
ORF3a_silent_25791	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
M_L124F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314
S_S704L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.296736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.006314

N_G147S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_M1014V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_12769	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_V1143F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_silent_25096	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_silent_22750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_20653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_Q1224R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_I805M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_A879V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_D399H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_17766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_W152R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_N805T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_13848	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_R195I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_709	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_14463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_A575S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_V705L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_H145Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_D2270Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_3787	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_S1478F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_G496S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_18042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF7a_P84S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T2910I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T1038I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_18012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF8_P70T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_4162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
M_T208I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF3a_silent_25608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_M1573I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_H1264Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_F3614S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_16458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_17253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
M_silent_26549	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_ins 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_D954G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_V1379A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_2401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_2356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_A3956V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_H1652Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_N440K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_8647	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_5524	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_1714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_N1137S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_15024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_A220S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_H247R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_13264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_V193L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF3a_Y189F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_14053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_S232G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_A251S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_M3616T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF8_F104L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_A27S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_16377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_silent_23707	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_G192S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T1567I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
M_H125Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_13222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF3a_silent_26082	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF8_C37F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_V1132I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_S2578F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_V1629F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_V3917G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T2124I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T3665I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T1854I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF7a, ORF7b_*122C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T708I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_7057	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_18201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF3a_A23V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF7a_A55S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_3736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_S689I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_A522S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_silent_28888	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_11830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_D297Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_A3392V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_K2209R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_Q2247H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_K709N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF6_A12V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_5866	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_K3151T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_L1263V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_N2080T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
N_T148I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T781I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_N1662S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_12406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_14484	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T1902I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_silent_24178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T1567A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_G894C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_15732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_T307I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_R2949C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_G7S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_2530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_Q1113L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_silent_23992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF3a_silent_26151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_Q813L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF6_S41F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
M_A40S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_18636	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_3094	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_R287G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_T719I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_7834	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_S221A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF7a_silent_27672	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF7b_L18P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF3a_T64I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_V3017F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_G261R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_silent_6347	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_E2271G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_R2613H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
S_silent_23242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF8_E106*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_A2587V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF7a_I3T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004373
ORF1ab_T1246I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_A79V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S1856F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T2495A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187

ORF1ab_D1815Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_8137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2222V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_685	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_L455F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_F490L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A3143V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_F3604L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_P9L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7b_E39Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_A155V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_K421R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_23608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5926	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T1998I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_6568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_A672V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_F43S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_S60L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_S410A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D1973N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18471	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A211T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S1517F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_T1006I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_R118I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_22477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_6640	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T4129I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_23929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R1464Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_15618	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20679	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_K672R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P926L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_silent_26088	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_14298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_del_3_28065	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_1519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4072	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_K1245N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D126N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20634	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A1377V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_21643	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S1587L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_13734	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_23185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_K837R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_W75L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V364L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_25324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_11155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_T115I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S2114F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_7024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N4358K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
E_S68F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
E_silent_26449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
E_V70S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_28315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E2089D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_A623V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_silent_27402	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E2805G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_silent_27110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N3537I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E2279G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_T286I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_R48G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_E110D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_29461	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P926S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_M2322I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_1282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_23440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_7438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_C790F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_L1220P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_1924	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF6_N28D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_R89K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_L275F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_16179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20490	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_silent_27573	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_P142S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_C1744Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S2303F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF6_M58L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_15120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_D22G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_D210Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_E780G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_21595	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_silent_25824	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R1404C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I1398V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_K814N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_15519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_6967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_3814	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_G60S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3459A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D2662Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_C15F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2513S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_L3086F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_28360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N1611S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A339T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_W45C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S442R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_T271A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_28477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4927	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_15807	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_del_9_27691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_del_3_3218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T1137A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G345D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V1870I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17637	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_8989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_C3419Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187

ORF1ab_silent_19170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_21339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G894V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3696I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_del_2_18339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P1054L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_11494	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_S195Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A3730V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_silent_28076	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_S58N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_29011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P1640S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_I35T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF6_W27C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P1567L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_I1114V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_W45L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E2585G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_K235N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_I158V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2047F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_del_3_26155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N2405D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_H2146Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_25156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_silent_25596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_F2S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_Y111C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_25270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3904I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_R191C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_L335F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A1997V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_6268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P193L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D1179N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2080S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2133I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_L397I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_T678I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V965I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_D63Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G3521R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_del_7_18743	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_del_2_27720	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_L580F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_Q2400L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_10645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G3538S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V306F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E341G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_S201N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D1668E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18483	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_G66D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_F220L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_D796N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T2040I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_M746I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T794I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_22030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_Q14H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_V71L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P1921L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_1921	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A1058E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I1074S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_I434V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_F307I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_M1378I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V1211F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_1402	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7b_silent_27782	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N3347S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R3662C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I4308T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N840H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_K375Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_Q813R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_A381V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_6529	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_R683Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_592	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_16143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_L10I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2371L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20628	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_Q272L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V4369F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A941S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V1814F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_G25C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_10009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D2576G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9097	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G2387S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_silent_26918	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_F59L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E972K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_14091	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_14322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_R214L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_E241G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_C2551F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4897	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24742	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3749I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_13429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V1021F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_19182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_silent_26058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P970L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_A570Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF8_F16L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G3286S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
E_A41V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D1282Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_del_4_27576	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9802	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P361S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_2299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T2016I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_Q1201K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12868	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2199V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_P302S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_A79S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2130A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_F3753V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187

ORF1ab_A1798S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S3G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R24C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_14418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_G19E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9853	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_21108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N2111K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20487	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
E_silent_26326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_R14G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S1905F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3488I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_V367L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_G100D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24757	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P943S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2453A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V1811F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_I232V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E1498K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D152N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_H919R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_23167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2614V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_silent_27002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_L631F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
E_R61H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_15906	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_R385I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T2376K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_E226K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G950V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R1645S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_25048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P892S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_G238S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_I834V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D436A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P1645S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18612	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_T124I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_P365S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I831V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_16677	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_8824	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G957V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D928N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_16509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T1876N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2754L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_T1238I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_V10A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S17N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R119L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_del_1_3663	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A3497S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_R4387C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_13767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P1851S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3461A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P976S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P971L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_24319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
intergenic_del_3_29718	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12493	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I1159T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_del_1_3551	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E1630D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I3306T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G3334V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4084	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_D3E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S3949N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_I2286T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S2148A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V1164A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20544	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF10_A8D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A1420V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18654	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S2389L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_S232C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T635M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_A892V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_C657Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_Y200H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A1812V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T2093I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_A252V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_C1243F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D1292E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_17382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_18687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S1187N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_20715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_29137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_silent_27011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_23635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T3567I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_Y1090C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_13225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2306V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_L2017F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_13845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_Q57K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_21123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12469	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N2498Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_3928	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P2739L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF7a_P84R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
N_silent_28969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_10714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_10789	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_Y154C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_I285L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N1121S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_6334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_K1315T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A2994V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_del_6_23427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A656V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_silent_26040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_5509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_G219S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A1959V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_14898	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_M1229V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S1978P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_E1024D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_V2779L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_L303F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A211V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF3a_L140F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_C4294S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187

ORF3a_D142H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_K1557N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_T1136I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_S511G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF10_silent_29632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T821I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_2884	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_N2966S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_12763	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P2313L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A372V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_9199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G4201R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G912C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_P2792S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_13420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
S_silent_22951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_4660	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_A374S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_G493S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_T4174A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
M_A98S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_silent_16827	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.102775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002187
ORF1ab_D1127Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2385T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H1550Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_A90S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_T245I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_17559	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_del_3_28988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_23893	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_8248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L469F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V2149F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T51A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_V171A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22384	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_del_7_28247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_L95S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_silent_27538	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D2429G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1435V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_18_3270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P3371L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_silent_27420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_C1889Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_R21T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_R209I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_P159S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_3130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_C1241F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_7936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_P57L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_L27P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E176K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5797	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_7063	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T981I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_L517F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28534	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_W131S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T732I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_I100V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_silent_25680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H81R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9391	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_R214H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22741	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_Q260R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R3802H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_3688	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P1207S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_4717	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2293G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2355S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T3117A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R3163S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Y2276C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D2499G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_L18R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_R158S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S735A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_P267L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_S5L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_R52K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_N213Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_R78M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1288D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L122F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_859	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T333A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Q1592R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6794	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10798	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V3975L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_17505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V1607A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19386	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_C136F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_del_6_22289	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T478R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_L14S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_S412N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_C86F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2352R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K3192R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29464	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11884	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_P25T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T29I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E102K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D3222N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G3278S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S3687L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L3691S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D1028Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_R346S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_A899S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_silent_26319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_V82F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G212V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R560H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S3309A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A4016V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R574G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_Q414K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_N450K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_del_30_25446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_silent_26469	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_del_2_28271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

N_silent_28846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_E33*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_silent_27957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S531I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_del_1_241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D144G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L454I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T708R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14670	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22918	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_V114I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S1186F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1870G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_856	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12562	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_D3H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2320V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1129C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_M1352I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2312A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_21583	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_21895	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_E154K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_Q1071H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_I82S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_R146H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N4167S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S994C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_15603	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_D35Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A917S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_H146Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L2062F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Q1003E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R1915K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_del_1_27792	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2699V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_R80K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_P84L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S443F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T2183I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_L865F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K1226T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_F2387V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_L452Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_F490S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_silent_26702	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G214C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R232C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_G1099D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S1249T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_silent_26199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10084	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_7003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_V270L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1119S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I623V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_L84S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1801D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_del_1_22928	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S966A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9746	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E3608*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1367V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P207S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_del_2_241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L2013F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T284I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A373V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1643V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_4579	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N2155S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G2941S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_silent_27513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G2241S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_23542	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_D1199G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1014V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1073*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N1080K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1595V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1644V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2644L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L2657F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G2815C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S3410I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_1_10517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V3434F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G3437V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_1_10626	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_2_10651	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D295Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1617V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_18462	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_1_18568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R1834K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_W1872C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Q2181*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G2387V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_A475P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_V483F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_23779	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_F855S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_del_2_25690	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_L101P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G284*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_W301C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G321C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_I47V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E633D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_silent_25644	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9694	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_L219F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E910D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A3969V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S428G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_P1263L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_A143S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORF1ab_I1607T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T2490M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2994T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D1292G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_23815	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_silent_27977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_D415N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T1241I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11525	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V3976L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_17115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K2367N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_L4I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_16563	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_F1185L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_del_1_29215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_A125S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R4179S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2261F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_Q38P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_E7K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H1264R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Y2353N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Y3154C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I3257T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2614T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Y1648H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H3233Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_15540	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K669T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13506	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N2081S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9856	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S3547G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I235V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S1661I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S1779I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2399I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_C1247Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S959L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D1825G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1093	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1398L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5353	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T4207I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14703	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19674	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_F56V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_16917	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_Q173K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_W193R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_P364L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A927S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L393F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_4_2270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1125V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_1_9149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_1_19012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S279F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E2274G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_silent_27125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_E33K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_3451	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T1444N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T547K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_C2851S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V3340F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10786	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E10K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_K356Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V2496A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H3580Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24082	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_16173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_17407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_18318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_21931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_D72G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_A376V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D275Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2677	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G1307S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_25174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_silent_28115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K515N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V2326I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_del_11_29738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20640	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L3238I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_9931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L1449F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1954T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_silent_25974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_silent_26464	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E797K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_15957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_silent_27484	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K1390R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_18573	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28666	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V751L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1912V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P3395L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_A522V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_8512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_21216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_4687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D2980Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_1_11719	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I530T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P1325S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_del_2_27264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_L34F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1380V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S2205F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2465V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1408	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_W630C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K1873N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_19584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V1020F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N2216S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_18501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
intergenic_del_1_29769	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1082V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_4636	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_M4241V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24094	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_E1150K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORF1ab_A516V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G989V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T1828A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2655V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_I48V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_D428E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_8386	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_silent_27219	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H374Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T821A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_4183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14793	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T582I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D220Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T1597I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S71F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I539V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T2859I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L2560F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_23905	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1232T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_S45P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_D867N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_ins 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_N709S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_C1235Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_15276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K1763N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V1852I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_A143T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_silent_27041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_N2482T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_17889	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_silent_25818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_G238C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L384R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1192G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_11416	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2575V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28705	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF3a_silent_25662	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T945I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_17802	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_F32L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_23266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_25369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_silent_26472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_I15V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_Q83K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_del_3_1605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T2264N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_21823	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2765V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_13620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P971S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I2758V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I453T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_4156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_H1610R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T76I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_R107H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_3991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_T95N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_silent_26460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1146V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V1706I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A2330S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V3107G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P4337S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_22078	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_24364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7a_del_1_27725	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_5500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1826A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V2019F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G2091S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_6754	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_25300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF7b_A15S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T592I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF6_T10I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2785	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P2221S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_14097	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T484P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I1005V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_R109C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_D870N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_16362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_S674N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1311G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_Q2563H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_10552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_T148S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_V1149L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_I652V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_G170C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_E1728V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF8_E59*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_K120N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T666I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_29344	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_K811T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_1918	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N_silent_28609	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_M1769V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_2788	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_G252D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_20371	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E_T30I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_21625	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1831S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_M620T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1844V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_silent_12112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_silent_25214	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_A1326T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S_K77I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_T3117I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_P380S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORF1ab_L1016P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M_silent_26996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0