Lineages report for England

This report gives summaries of lineages sampled in England for week 2020-09-13. There are time lags due to batching, curation and analysis, the most recently sampled sequence is 2020-09-10. The analysis (eg time since last sample) is therefore undertaken from this date. 39331 sequences from England have been included in this analysis. 1908 lineages have been recorded, 873 of which only contain one sequence.

A few notes: the size of a lineage may be due to a low amount of transmission of this lineage, but it is likely also that it just hasn't been sampled as frequently, especially for newer lineages. It's also important to realise that these lineages are *estimates* of how we think the virus is spreading in the UK after being introduced from abroad, as the low evolutionary rate of the virus makes it difficult to separate lineages with certainty.

The minimum number of introductions is 139 and the maximum is 14346

Sequences which were replicates or too error-prone were removed from this analysis.

1815 are lineages which were sampled less than five times in England, and so have been left out of visualisation in the interests of clarity

Furthermore, those sequences which haven't been sampled in the last month are not shown.

Of the 93 that remain: 68 are pending extinction, ie last seen three weeks ago. 18 lineages have gone quiet, ie haven't been seen this week. 3 lineages have reactivated. 4 lineages have been continuously circulating.

The following table contains information about the ten largest lineages lineages and the number of sequences the dataset. Information about other lineages is found in the appendix, along with the raw data for all of the other figures.

Each entry is the count of sequences from each lineage in each country, with the percentage of the total sequences from that lineage that this count represents.

"Activity score" is calculated by taking the average gap between sampling for each lineage, and dividing it by the number of days since the lineage was last sampled. Therefore the higher the number, the more active the lineage is. If the score is above 1, then it has been sampled *more* recently than expected given its average gap size. We might interpret this as an increase in activity. If the score is below 1, it has been sampled *less* recently than expected given its average gap size, so we might interpret this as a decrease in activity.

The global lineages are correct as of the data release on 2020-07-20

It is written to "summary_files" as "lineage_summary.tsv" for further use, and the full list of lineages is available in the same directory as "all_lineages.csv"

Lineage name	Date range	Total	Global lineage	Time sinc last sampl
UK5	Feb-16, Sep-05	9354 taxa	B.1.1.10, B.1.1.1, B.1.1, B.1.1.13	5 days
UK1951	Mar-02, Aug-20	1994 taxa	B.1.1.1, B.1.1	21 days
UK107	Feb-09, Jul-20	1650 taxa	B.2.1, B, B.2	52 days
UK175	Feb-24, Aug-21	1306 taxa	B.1.82, B.1.35, B.1.81, B.1.105, B.1.79, B.1.8, B.1.88, B.1.93, B.1, B.1.13, B.1.11, B.1.5, B.1.77, B.1.76	20 days
UK1205	Mar-03, Aug-25	1047 taxa	B.1.1.3, B.1.1.1, B.1.1	16 days
UK1271	Apr-08, Aug-26	666 taxa	B.1.1	15 days

Lineage name	Date range	Total	Global lineage	Time sinc last sampl
UK1683	Mar-08, Aug-21	624 taxa	B.1.1.10, B.1.1.1, B.1.1	20 days
UK109	Mar-12, Aug-21	555 taxa	B.1.79, B.1.99, B.1, B.1.5, B.1.77	20 days
UK199	Feb-26, Aug-26	515 taxa	B.1.104, B.1, B.1.11, B.1.5, B.1.5.10	15 days
UK2913	Mar-07, Jul-15	514 taxa	B.1, B.1.11, B.1.5	57 days

These data is represented in the figure one. Note that the number of sequences is likely to be due more to differing sampling efforts in different regions, rather than genuine differences in numbers of cases.

The raw data for this bar chart are in the table above.

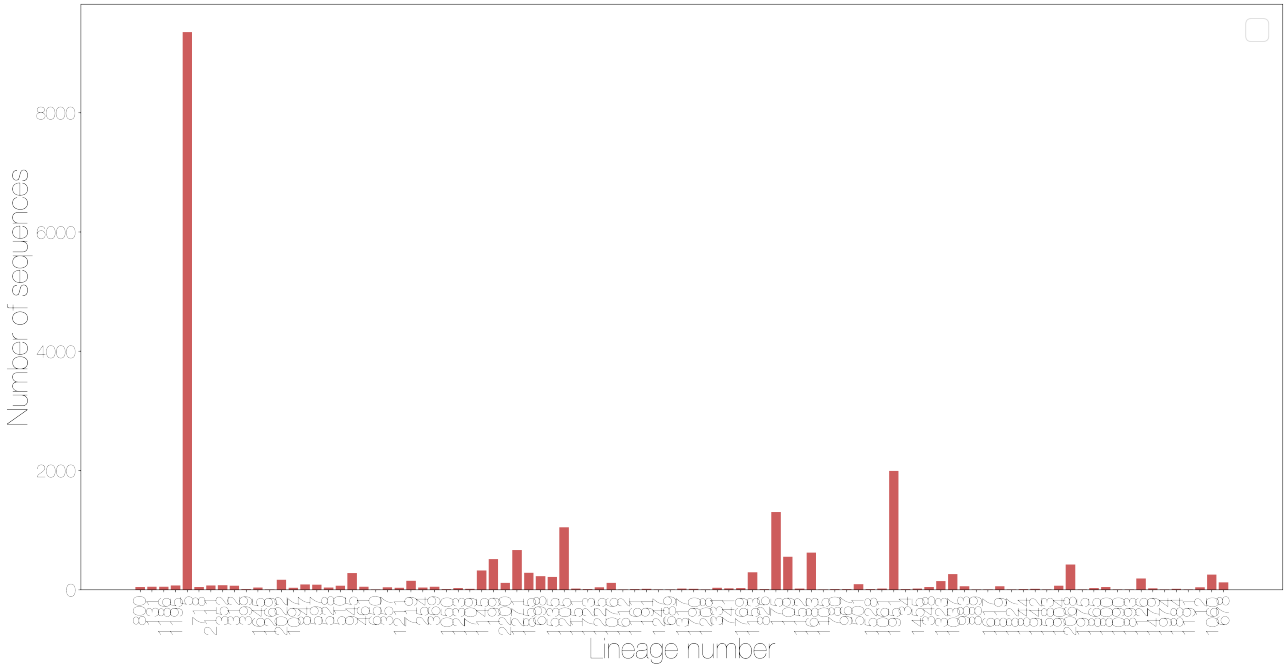

Figure 1: Number of sequences sampled in a lineage by country

Different sequencing centres have different delays in turn around from receipt of samples to submission of sequence data. This will affect all of the figures shown after this if lineages have geographical variation, as some regions have less up to date data.

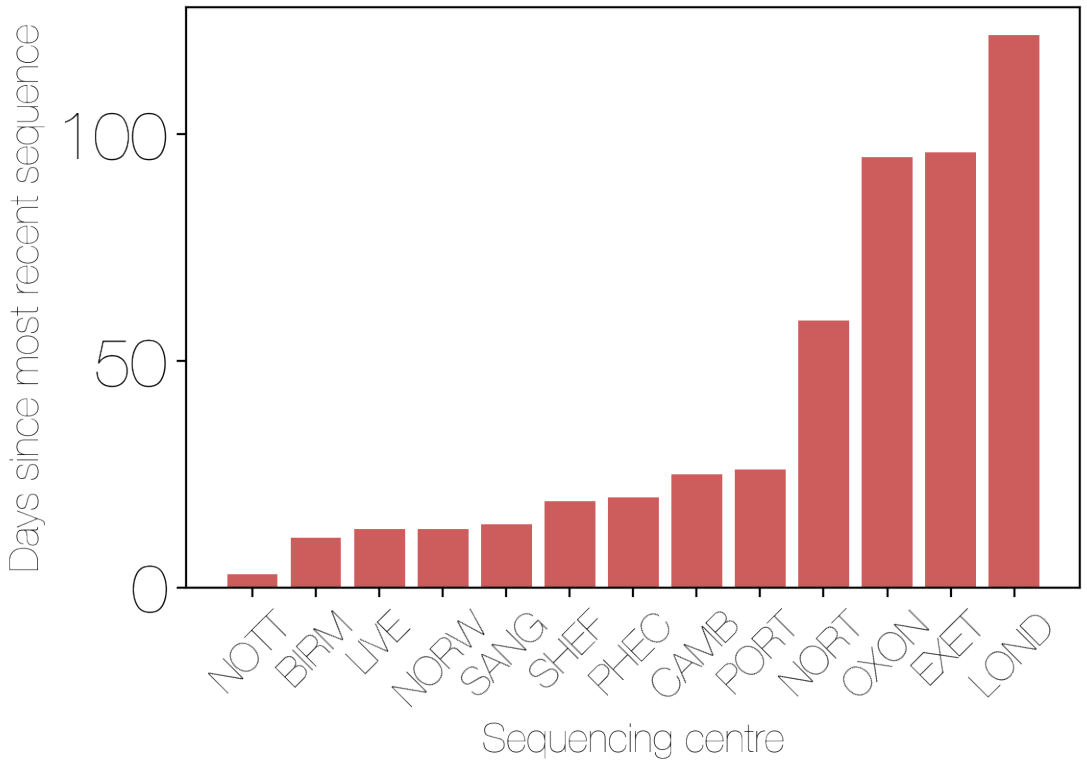

Figure 2: Lag since the most recent sequence from each sequencing centre to most current date

The relative growth and decline of the ten most sampled lineages in terms of number of counties they are present in is shown in figure three.

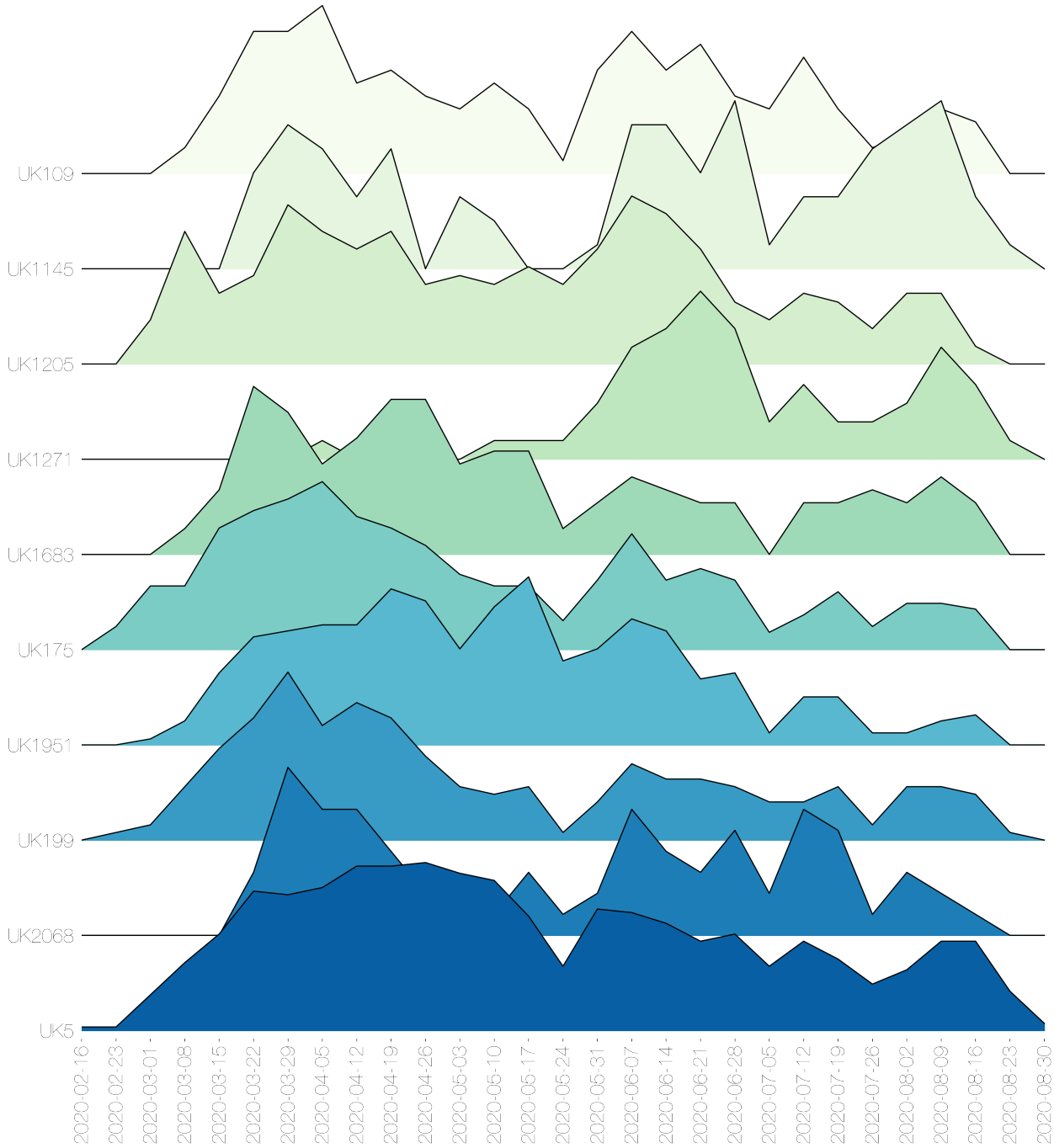

Figure 3: Lineages by number of adm2 regions present by epiweek

These lineages are shown on the timeline. Each line represents the length of the cluster, from oldest to most recent sampling date. The dots are sized by the number of sequences taken on that date, and again are colour coded by country. The raw data has been written to a summary file.

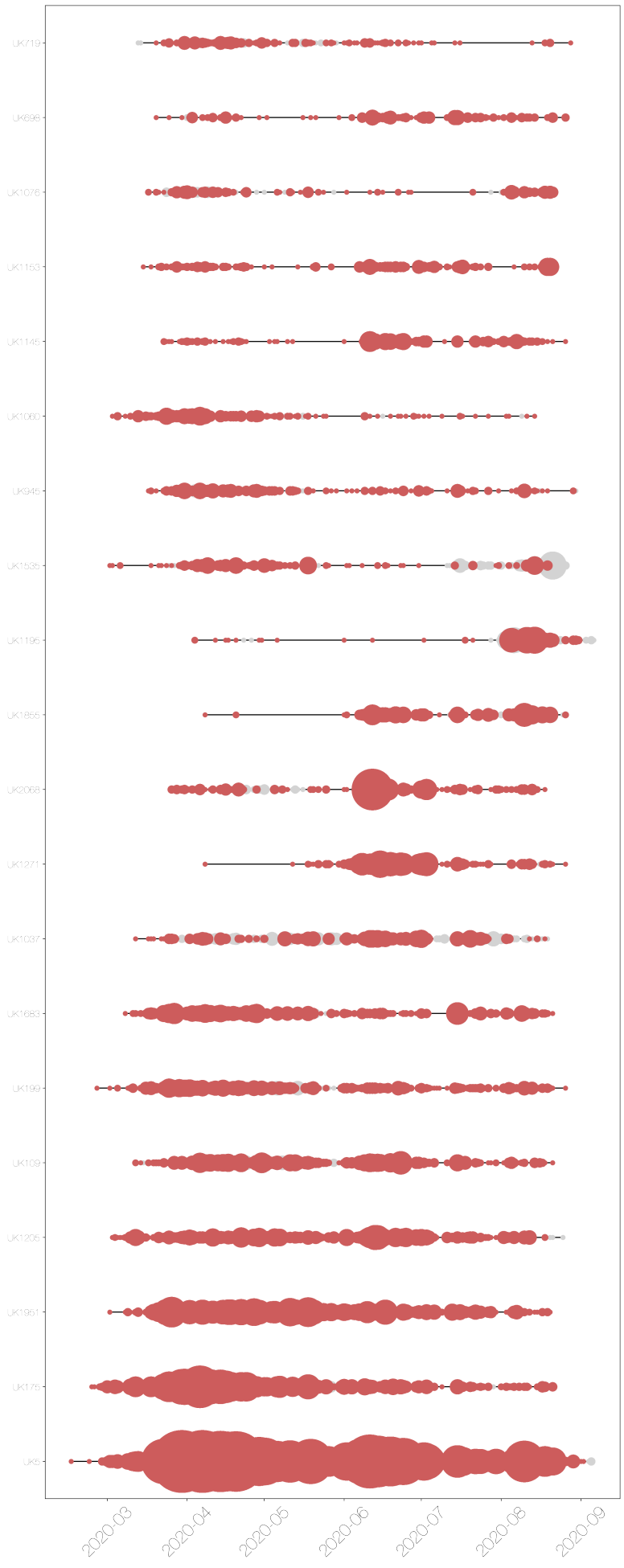

Figure 4: Timeline of lineages, sized by number of sequences from each country.

The date of first sequence in the cluster is shown in figure five for every cluster with date information. NB the lineage may have started anywhere in the UK, but has been recorded at least once in England

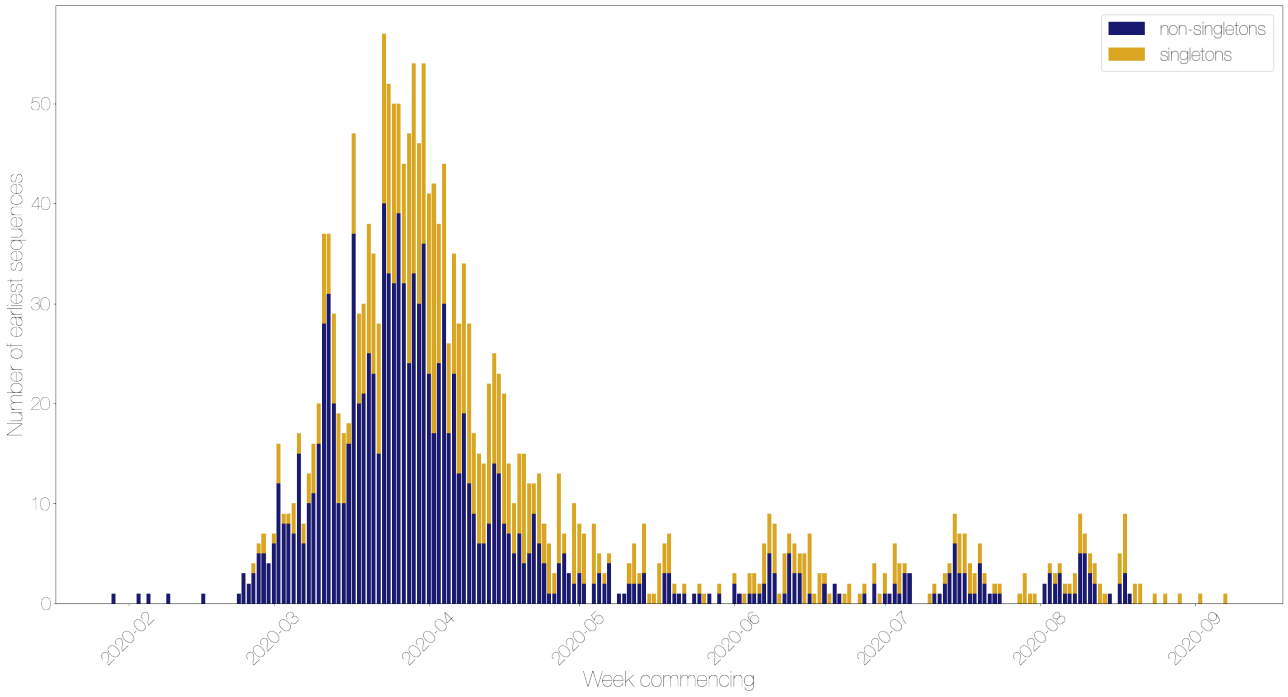

Figure 5: Lineage starts per week, split by singletons and non-singletons

For comparison, here is a plot of the day that every sequence was taken, coloured by country. Note that sequences without dates were not included.

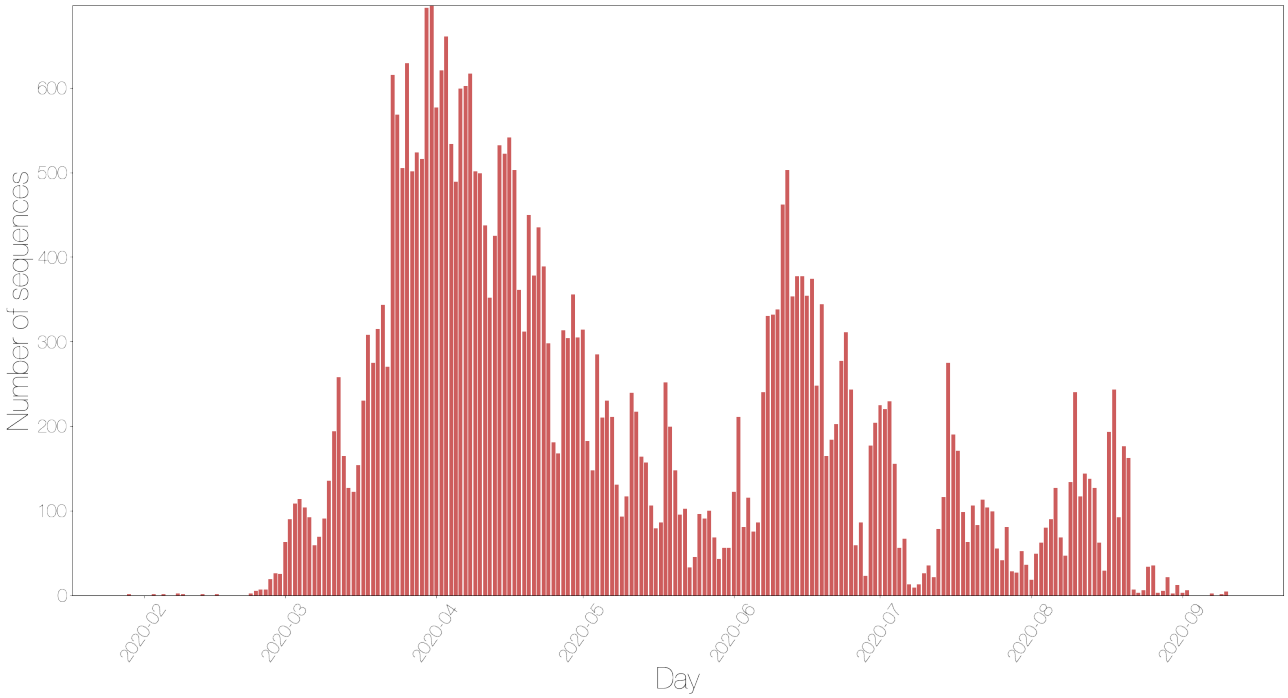

Figure 6: Sequences taken on each day by country

The map shows the number of sequences sampled in each admin2 region in the UK. The colour scale is the same for all four countries, but with different underlying base colours.

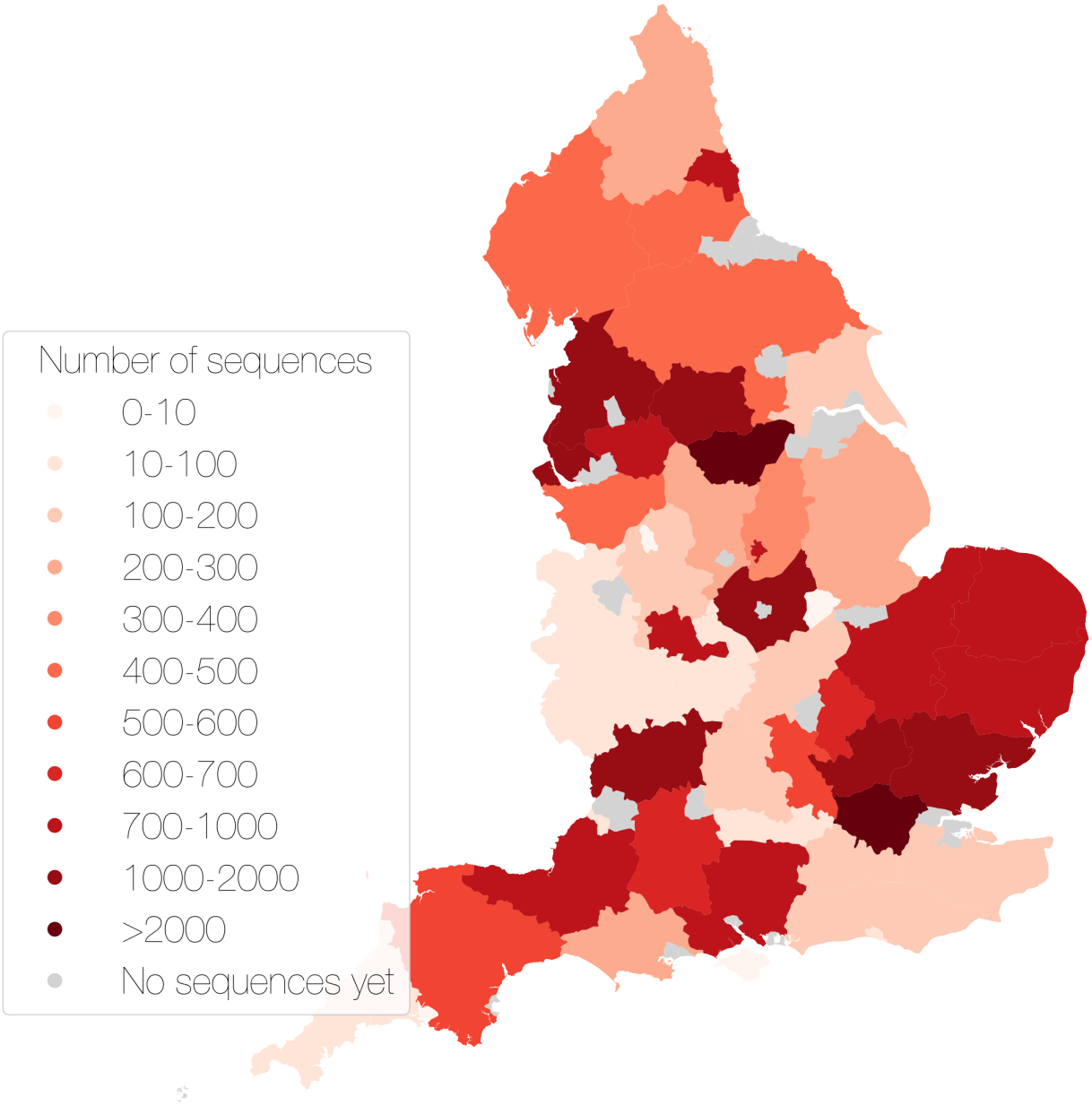

Figure 7: Map showing the number of sequences sampled by adm2 region

There are some sequences with locations that are not matched to real Admin2 regions, some manual curation required.

Other results modules for UK lineage analysis can be added in here if required.

Appendix

Below are the raw data tables for each of the figures in the report.

Table S1 Description of all lineages that have been circulating in the last month, and have more than 5 sequences.

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK5	Feb-16, Sep-05	9354 taxa	B.1.1.10, B.1.1.1, B.1.1, B.1.1.13	5 days	0.0036
UK1951	Mar-02, Aug-20	1994 taxa	B.1.1.1, B.1.1	21 days	0.0038
UK107	Feb-09, Jul-20	1650 taxa	B.2.1, B, B.2	52 days	0.0017
UK175	Feb-24, Aug-21	1306 taxa	B.1.82, B.1.35, B.1.81, B.1.105, B.1.79, B.1.8, B.1.88, B.1.93, B.1, B.1.13, B.1.11, B.1.5, B.1.77, B.1.76	20 days	0.0034
UK1205	Mar-03, Aug-25	1047 taxa	B.1.1.3, B.1.1.1, B.1.1	16 days	0.0101
UK1271	Apr-08, Aug-26	666 taxa	B.1.1	15 days	0.0139
UK1683	Mar-08, Aug-21	624 taxa	B.1.1.10, B.1.1.1, B.1.1	20 days	0.0102
UK109	Mar-12, Aug-21	555 taxa	B.1.79, B.1.99, B.1, B.1.5, B.1.77	20 days	0.0085
UK199	Feb-26, Aug-26	515 taxa	B.1.104, B.1, B.1.11, B.1.5, B.1.5.10	15 days	0.0149
UK2913	Mar-07, Jul-15	514 taxa	B.1, B.1.11, B.1.5	57 days	0.0032
UK2916	Feb-03, Aug-11	472 taxa	B.1.98, B.1, B.1.11	30 days	0.0107
UK5676	Feb-26, Jul-22	446 taxa	B.2, B.2.2, B.2.4, B.2.1, B.2.9	50 days	0.0041
UK2068	Mar-26, Aug-18	423 taxa	B.1.1, B.1.1.4	23 days	0.0131
UK2464	Mar-09, Jun-29	395 taxa	B.1.81, B.1, B.1.11	73 days	0.0022
UK72	Feb-05, Jun-23	373 taxa	B.2.1, B.2, B	79 days	0.0038
UK167	Mar-11, Jul-15	324 taxa	B.1.2, B.1, B.1.117, B.1.5	57 days	0.0052
UK1145	Mar-23, Aug-26	323 taxa	B.1.1	15 days	0.0317
UK9	Mar-09, May-18	301 taxa	B.1, B.1.5, B.1.13	115 days	0.002
UK1153	Mar-15, Aug-21	296 taxa	B.1.1	20 days	0.0264
UK1855	Apr-08, Aug-26	285 taxa	B.1.1.3, B.1.1	15 days	0.0213
UK1684	Mar-14, Jul-04	279 taxa	B.1.1.1, B.1.1	68 days	0.005
UK945	Mar-17, Aug-30	279 taxa	B.1.1, B.1.1.28	11 days	0.0402
UK5741	Mar-11, Jul-15	271 taxa	B.1, B.1.5	57 days	0.0051
UK1037	Mar-12, Aug-19	264 taxa	B.1.1.30, B.1.1	22 days	0.0108
UK1060	Mar-03, Aug-14	257 taxa	B.1.1.10, B.1.1	27 days	0.0185
UK1278	Mar-23, Jul-27	255 taxa	B.1.1	45 days	0.0109
UK600	Feb-29, Jul-13	247 taxa	B.1, B.1.1	59 days	0.0075
UK698	Mar-20, Aug-26	228 taxa	B.1.1	15 days	0.0444

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK1535	Mar-02, Aug-26	218 taxa	B.1.1.3, B.1.1	15 days	0.0279
UK267	Feb-25, Jul-15	207 taxa	B.2.1, B.2, B	57 days	0.0106
UK315	Feb-25, Aug-02	198 taxa	B.2.1, B.2.2, B.2	39 days	0.0176
UK494	Mar-19, Jul-16	193 taxa	B.1, B.1.104, B.1.11, B.1.5	56 days	0.0108
UK1126	Mar-11, Aug-17	191 taxa	B.1.1	24 days	0.0326
UK917	Mar-15, Jul-23	187 taxa	B.1.1	49 days	0.0135
UK2022	Mar-24, Aug-31	167 taxa	B.1.1	10 days	0.0909
UK4	Feb-28, Apr-29	167 taxa	B.2, B	134 days	0.0025
UK336	Mar-11, Jul-22	158 taxa	B.1.93, B.1, B.1.77	50 days	0.0028
UK6	Mar-06, Jul-17	157 taxa	B.1.93, B.1, B.1.75, B.1.5	55 days	0.0144
UK5498	Mar-06, Jul-19	150 taxa	B.2	53 days	0.0152
UK719	Mar-20, Aug-28	149 taxa	B.1.1	13 days	0.0559
UK1323	Mar-19, Aug-19	147 taxa	B.1.1	22 days	0.0429
UK51	Mar-25, Jul-15	147 taxa	B.1.36, B.1	57 days	0.0132
UK740	Mar-18, Jun-13	146 taxa	B.1.1	89 days	0.0059
UK2039	Mar-13, Jun-25	144 taxa	B.1.1	77 days	0.0093
UK387	Mar-06, Jul-31	137 taxa	B.1.86, B.1, B.1.11, B.1.5, B.1.21	41 days	0.0194
UK1157	Mar-07, Jul-23	129 taxa	B.1.1.7, B.1.1	49 days	0.02
UK678	Mar-12, Aug-14	127 taxa	B.1.1	27 days	0.0435
UK31	Mar-10, Jul-23	118 taxa	B.3, B.2, B	49 days	0.0228
UK1076	Mar-17, Aug-22	118 taxa	B.1.1	19 days	0.0338
UK2200	Feb-28, Aug-26	115 taxa	B.1, B.1.5, B.1.35	15 days	0.0702
UK274	Mar-06, May-20	108 taxa	B.3, B	113 days	0.006
UK829	Mar-03, Jun-14	105 taxa	B.2.1, B.2	88 days	0.0111
UK319	Mar-28, Aug-11	98 taxa	B.1, B.1.79	30 days	0.0463
UK1215	Mar-16, Jun-10	97 taxa	B.1.1.1, B.1.1	92 days	0.0097
UK501	Mar-07, Aug-20	96 taxa	B.1.86, B.1	21 days	0.059
UK1134	Apr-28, Aug-06	94 taxa	B.1.1	35 days	0.0386
UK491	Mar-11, May-20	93 taxa	B.2, B.2.4, B.6, B.2.1, B	113 days	0.0065

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK847	Mar-23, Aug-31	89 taxa	B.1.36, B.1	10 days	0.1425
UK902	Mar-11, Jul-22	89 taxa	B.1.1	50 days	0.0302
UK1155	Mar-05, Jun-26	88 taxa	B.1.1	76 days	0.0152
UK384	Feb-28, May-16	87 taxa	B.2.1	117 days	0.0073
UK37	Mar-17, May-05	86 taxa	B.1, B.1.30, B.1.5	128 days	0.0044
UK597	Mar-25, Aug-31	84 taxa	B.1, B.1.117, B.1.5	10 days	0.1314
UK607	Mar-02, Jun-16	79 taxa	B.2, B	86 days	0.012
UK352	Jul-05, Sep-02	78 taxa	B.1, B.1.113, B.1.36	8 days	0.0889
UK55	Mar-10, Jun-23	78 taxa	B.3	79 days	0.0158
UK669	Mar-07, Aug-03	74 taxa	B.1.1	38 days	0.0436
UK1051	Mar-30, Jul-25	73 taxa	B.1.1	47 days	0.0346
UK2906	Mar-06, Jun-30	72 taxa	B.1	72 days	0.0219
UK2111	Apr-04, Sep-04	72 taxa	B.1.1	6 days	0.3542
UK59	Feb-23, Apr-28	71 taxa	B.3	135 days	0.0048
UK1195	Apr-04, Sep-06	71 taxa	B.1.1, B.1.1.25	4 days	0.0907
UK510	Jul-18, Aug-31	70 taxa	B.1.106, B.1	10 days	0.0595
UK312	Jul-23, Sep-02	70 taxa	B.1	8 days	0.0381
UK899	Mar-12, Jun-26	69 taxa	B.1, B.1.11, B.1.5	76 days	0.0202
UK709	Mar-25, Jun-29	69 taxa	B.1.1	73 days	0.0193
UK1904	Mar-31, Aug-18	68 taxa	B.1.1	23 days	0.0909
UK1297	Apr-09, Jun-11	68 taxa	B.1	91 days	0.0103
UK928	Mar-10, May-25	64 taxa	B.1.1	108 days	0.0103
UK619	Mar-02, Apr-30	62 taxa	B.1.1	133 days	0.0069
UK1264	Mar-18, Jul-02	61 taxa	B.1.1	70 days	0.0248
UK1091	Mar-13, Jul-15	61 taxa	B.1.1, B.1.1.2	57 days	0.0037
UK1819	Apr-06, Aug-18	60 taxa	B.1.1	23 days	0.0987
UK275	Mar-09, Jun-02	60 taxa	B.1, B.1.13	100 days	0.0123
UK983	Apr-21, Aug-18	59 taxa	B.1.5.5, B.1	23 days	0.0892
UK596	Mar-16, Apr-24	59 taxa	B.1.106, B.1, B.1.5, B.1.72	139 days	0.0048

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK120	Feb-27, Jun-07	59 taxa	B	95 days	0.0142
UK1447	Mar-30, May-06	59 taxa	B.1.1	127 days	0.0049
UK61	Mar-12, Aug-03	56 taxa	B.3, B	38 days	0.0064
UK369	Apr-30, Aug-27	53 taxa	B.1, B.1.113	14 days	0.1518
UK1186	Aug-09, Sep-07	51 taxa	B.1, B.1.79	3 days	0.0674
UK173	Mar-11, May-19	51 taxa	B.2, B.21, B	114 days	0.0121
UK1140	Apr-04, Jun-17	51 taxa	B.1.1	85 days	0.0174
UK402	Mar-01, Jul-15	50 taxa	B.1	57 days	0.0362
UK131	Mar-11, Sep-07	50 taxa	B.15, B	3 days	1.1111
UK461	Aug-02, Aug-30	50 taxa	B.1	11 days	0.0326
UK515	Mar-01, Apr-27	49 taxa	B.1, B.1.5	136 days	0.0087
UK800	Jul-15, Sep-10	48 taxa	B.1	0 days	active today
UK718	Apr-15, Sep-05	48 taxa	B.1.1	5 days	0.5158
UK348	May-13, Aug-19	48 taxa	B.1	22 days	0.0948
UK1212	Mar-15, Jul-04	47 taxa	B.1.1	68 days	0.0281
UK1800	Apr-09, Aug-17	47 taxa	B.1.1	24 days	0.1128
UK701	Apr-13, Jun-14	46 taxa	B.1.1	88 days	0.0153
UK119	Mar-11, May-12	45 taxa	B.2, B	121 days	0.0097
UK497	Mar-13, Jun-09	45 taxa	A.2	93 days	0.0193
UK12	Mar-11, Aug-14	44 taxa	B.1.88, B.1, B.1.84, B.1.11	27 days	0.1051
UK1279	Apr-04, May-16	44 taxa	B.1.1	117 days	0.0083
UK1225	Apr-28, Aug-23	43 taxa	B.1.1.1, B.1.1	18 days	0.1477
UK1542	Mar-27, Apr-20	42 taxa	B.1.1	143 days	0.0041
UK357	Jun-01, Aug-29	42 taxa	B.1	12 days	0.1686
UK1850	Apr-02, Aug-07	41 taxa	B.1.1	34 days	0.0934
UK1158	Mar-11, May-04	41 taxa	B.1.1.7, B.1.1	129 days	0.0102
UK1312	Jul-11, Aug-10	41 taxa	B.1.1	31 days	0.0242
UK1148	Mar-06, Aug-06	40 taxa	B.1.1	35 days	0.1121

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK360	Mar-04, May-18	40 taxa	B.2.1, B.2.2, B.2	115 days	0.0142
UK1603	Mar-30, Jul-27	40 taxa	B.1.1	45 days	0.0678
UK528	Jul-22, Aug-31	39 taxa	B.1	10 days	0.0784
UK79	Mar-24, Jun-06	39 taxa	B.1.97, B.1, B.1.5	96 days	0.0203
UK893	Mar-12, May-05	39 taxa	B.1, B.1.5	128 days	0.0081
UK1717	Apr-07, Jun-16	38 taxa	B.1.1	86 days	0.022
UK1645	Aug-10, Aug-31	38 taxa	B.1.1.10, B.1.1, B.1.1.2, B.1.1.15	10 days	0.0568
UK1242	Mar-11, Jun-17	38 taxa	B.1.1	85 days	0.0235
UK968	Mar-28, Jul-18	37 taxa	B.1.1	54 days	0.0576
UK254	Aug-03, Aug-28	37 taxa	B.1	13 days	0.0437
UK1644	May-03, Jul-21	37 taxa	B.1.1	51 days	0.0556
UK1721	Mar-19, Jul-03	37 taxa	B.1, B.1.13	69 days	0.0394
UK23	Mar-18, May-09	37 taxa	B.2.1, B, B.9	124 days	0.0116
UK1130	Apr-04, May-17	37 taxa	B.1.1	116 days	0.0103
UK46	Mar-02, May-08	36 taxa	B.2.1, B.2	125 days	0.0141
UK738	Mar-18, Jun-09	36 taxa	B.1.1	93 days	0.0255
UK2045	Mar-17, May-25	36 taxa	B.1.1, B.1, B.1.5	108 days	0.0183
UK241	Mar-22, Apr-16	35 taxa	B.1, B.1.5, B.1.5.3	147 days	0.0047
UK527	Mar-16, Jun-20	35 taxa	B.1	82 days	0.0272
UK1211	Jun-01, Aug-29	35 taxa	B.1.1	12 days	0.0617
UK667	Mar-20, Jun-10	35 taxa	B.1, B.1.77	92 days	0.0217
UK994	Mar-26, May-18	35 taxa	B.1, B.1.5	115 days	0.0136
UK215	Mar-12, Apr-19	34 taxa	B.2.1	144 days	0.008
UK331	Jul-02, Aug-21	34 taxa	B.1.36, B.1	20 days	0.0758
UK507	Mar-15, May-12	34 taxa	B.2.6, B.2, B.2.9	121 days	0.0126
UK1218	May-07, Jul-22	33 taxa	B.1.1.1, B.1.1	50 days	0.0447
UK1307	Mar-17, Jun-08	33 taxa	B.1, B.1.34, B.1.5	94 days	0.0276
UK646	Mar-12, Jun-16	32 taxa	B.1.1	86 days	0.0319

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK1223	Mar-21, May-15	32 taxa	B.1.1.1	118 days	0.015
UK439	Mar-29, May-20	32 taxa	B.1.66, B.1	113 days	0.0148
UK1097	Jul-06, Aug-31	32 taxa	B.1, B.1.5	10 days	0.1514
UK2014	Apr-08, Jun-03	31 taxa	B.1.1	99 days	0.0182
UK1274	Jun-22, Jul-16	31 taxa	B.1.1	56 days	0.0143
UK1911	Mar-26, Apr-29	31 taxa	B.1.1	134 days	0.0079
UK601	Mar-12, May-15	31 taxa	B, B.10	118 days	0.0048
UK174	Mar-19, Aug-04	31 taxa	B.1, B.1.5	37 days	0.1243
UK5501	Apr-05, Jun-24	31 taxa	B.1, B.1.12	78 days	0.0342
UK1769	Mar-30, Aug-21	31 taxa	B.1.1	20 days	0.2323
UK298	Jul-13, Aug-05	30 taxa	B.1, B.1.5	36 days	0.022
UK2062	Mar-11, Jun-04	30 taxa	B.1.1	98 days	0.0299
UK108	Apr-22, Jul-16	29 taxa	B.1	56 days	0.0523
UK218	Mar-21, Jun-02	29 taxa	B.1	100 days	0.0261
UK1843	Mar-21, Aug-08	29 taxa	B.1.1	33 days	0.1414
UK1865	Mar-28, Aug-17	29 taxa	B.1.1	24 days	0.1972
UK1029	Apr-04, Aug-09	29 taxa	B.1	32 days	0.124
UK881	Mar-10, May-16	29 taxa	B.1.1	117 days	0.0197
UK712	Apr-08, Jun-21	29 taxa	B.1.5	81 days	0.0326
UK1065	Mar-21, Jul-22	28 taxa	B.1.1	50 days	0.0155
UK1233	Mar-23, Aug-26	28 taxa	B.1.1	15 days	0.3852
UK2028	Mar-21, May-04	28 taxa	B.1.1	129 days	0.0122
UK101	Mar-21, Apr-25	28 taxa	B.1, B.1.5	138 days	0.0087
UK2007	Apr-03, Jun-24	28 taxa	B.1.1	78 days	0.0375
UK1282	Mar-15, Apr-18	28 taxa	B.1.1	145 days	0.0081
UK49	Mar-12, Aug-06	28 taxa	B.2, B, B.9	35 days	0.14
UK1270	Mar-17, Jun-24	28 taxa	B.1.1	78 days	0.0397
UK1703	Mar-16, May-01	27 taxa	B.1	132 days	0.0134
UK1663	Mar-17, May-02	27 taxa	B.1.1	131 days	0.013

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK741	Jun-27, Aug-21	26 taxa	B.1.1	20 days	0.1058
UK462	May-01, Jun-09	26 taxa	B.1	93 days	0.0232
UK1479	Jun-09, Aug-17	26 taxa	B.1.1	24 days	0.115
UK2003	Mar-19, Apr-27	26 taxa	B.1.1	136 days	0.0106
UK1388	Mar-18, Jul-06	25 taxa	B.1.1	66 days	0.0667
UK1232	May-18, Jul-03	25 taxa	B.1.1	69 days	0.0278
UK5503	Mar-20, Jun-12	25 taxa	B.1	90 days	0.0389
UK916	Mar-24, Jul-24	24 taxa	B.1.1	48 days	0.1105
UK1857	Mar-26, Jul-17	24 taxa	B.1.1.7, B.1.1	55 days	0.0893
UK134	Mar-04, Apr-13	24 taxa	B.1, B.1.5	150 days	0.0095
UK1619	Mar-20, Jul-24	24 taxa	B.1.1	48 days	0.1141
UK1219	Apr-01, May-14	24 taxa	B.1.1	119 days	0.0157
UK1099	Mar-24, May-14	23 taxa	B.1.1, B.1.1.5	119 days	0.0195
UK231	Mar-29, Jul-02	23 taxa	B.1	70 days	0.0617
UK699	Mar-12, Jun-30	23 taxa	B.1.5.9	72 days	0.0046
UK1030	Apr-08, May-14	23 taxa	B.1.5.5, B.1, B.1.5	119 days	0.0138
UK86	Mar-05, May-28	23 taxa	B.1	105 days	0.0123
UK1266	Mar-24, Jun-17	23 taxa	B.1.1	85 days	0.025
UK1129	Mar-27, Jul-23	22 taxa	B.1.1	49 days	0.1147
UK1152	Jul-16, Aug-21	22 taxa	B.1.1	20 days	0.0217
UK1263	Mar-09, Apr-14	21 taxa	B.1.1	149 days	0.0105
UK1075	Mar-24, May-29	21 taxa	B.1.1	104 days	0.0302
UK213	Mar-14, Apr-10	21 taxa	B.2.1	153 days	0.0088
UK1926	Mar-17, Jul-01	21 taxa	B.1.1	71 days	0.0711
UK1455	Aug-04, Aug-19	21 taxa	B.1.1.1, B.1.1	22 days	0.0325
UK1213	Jun-08, Jul-27	21 taxa	B.1.1.1	45 days	0.0519
UK1317	Apr-08, Aug-21	20 taxa	B.1.1	20 days	0.3214
UK1230	Mar-18, Jun-02	20 taxa	B.1.1	100 days	0.0238

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK1861	Mar-27, Jul-15	20 taxa	B.1.1	57 days	0.0965
UK1300	May-20, Jul-02	19 taxa	B.1.1	70 days	0.0341
UK1151	Aug-06, Aug-25	19 taxa	B.1	16 days	0.0347
UK1163	Apr-23, Jul-14	19 taxa	B.1.1	58 days	0.0785
UK1487	Mar-19, Jun-24	19 taxa	B.1, B.1.5	78 days	0.0118
UK1375	Apr-15, Jun-25	19 taxa	B.1.1	77 days	0.0512
UK630	Jun-06, Jul-03	19 taxa	B.1.1	69 days	0.0217
UK39	Mar-22, May-29	19 taxa	A.2	104 days	0.0036
UK345	Mar-19, May-15	19 taxa	B.2.2, B.2	118 days	0.0088
UK1061	Apr-30, Aug-20	19 taxa	B.1	21 days	0.1984
UK1630	Mar-20, Apr-30	19 taxa	B.1.1	133 days	0.0171
UK201	Apr-07, Jun-09	18 taxa	B.2, B.18, B	93 days	0.043
UK1344	Apr-05, Jun-23	18 taxa	B.1.1	79 days	0.0577
UK1234	Mar-26, Apr-23	18 taxa	B.1.1	140 days	0.0118
UK1725	Mar-30, Apr-30	18 taxa	B.1.1.1	133 days	0.0137
UK1202	Mar-26, Jun-26	18 taxa	B.1.1	76 days	0.0605
UK1577	Apr-27, Jun-30	18 taxa	B.1.1	72 days	0.0494
UK2046	Jun-09, Jul-01	18 taxa	B.1.1	71 days	0.0182
UK70	Mar-06, Apr-22	18 taxa	B.2, B	141 days	0.0175
UK183	Mar-03, Apr-03	18 taxa	B.2, B	160 days	0.0102
UK1709	Aug-07, Aug-26	17 taxa	B.1.1	15 days	0.0507
UK1968	Apr-19, Jun-29	17 taxa	B.1.1	73 days	0.0608
UK1790	Mar-20, Aug-21	17 taxa	B.1.1.10, B.1.1.1, B.1.1	20 days	0.4278
UK1942	Apr-03, Aug-18	17 taxa	B.1.1	23 days	0.2899
UK629	Mar-25, Jun-29	17 taxa	B.1	73 days	0.0731
UK1908	Mar-26, Jun-08	17 taxa	B.1.1	94 days	0.0492
UK1228	Mar-20, May-11	16 taxa	B.1.1	122 days	0.0284
UK1176	Jul-14, Aug-04	16 taxa	B.1.1.1, B.1.1	37 days	0.0334

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK263	Mar-13, Apr-13	16 taxa	B.1	150 days	0.0138
UK595	Mar-22, Apr-18	16 taxa	B.2.9	145 days	0.0109
UK1884	Mar-08, Aug-15	16 taxa	B.1.1	26 days	0.3419
UK153	Mar-13, Apr-14	16 taxa	B.2	149 days	0.0143
UK422	Mar-22, Apr-30	16 taxa	B.1	133 days	0.0183
UK1759	Apr-09, Aug-11	16 taxa	B.1	30 days	0.2048
UK973	Jun-12, Aug-05	16 taxa	B.1.36, B.1	36 days	0.1
UK1838	Mar-24, Jul-23	16 taxa	B.1.1	49 days	0.1646
UK349	Mar-11, May-24	16 taxa	B.2.2	109 days	0.0328
UK2094	Mar-31, Jun-24	16 taxa	B.1.1	78 days	0.0681
UK334	Mar-13, Jun-16	16 taxa	B.3	86 days	0.0736
UK38	Mar-04, Apr-20	16 taxa	B.2.1	143 days	0.0193
UK832	Mar-09, Apr-26	15 taxa	A.5	137 days	0.0175
UK1998	Mar-11, May-01	15 taxa	B.1.1	132 days	0.0276
UK200	Mar-26, Apr-19	15 taxa	B.2.1	144 days	0.0119
UK1301	Apr-06, Jun-18	15 taxa	B.1	84 days	0.0579
UK71	Mar-08, May-06	15 taxa	B.2, B	127 days	0.031
UK191	Apr-15, Aug-21	15 taxa	B.1, B.1.5	20 days	0.0618
UK1981	Apr-11, Apr-30	15 taxa	B.1, B.1.1	133 days	0.0102
UK1380	Mar-06, Jun-18	15 taxa	B.1.1	84 days	0.0884
UK2087	Mar-29, Jul-11	14 taxa	B.1.1	61 days	0.1218
UK151	Mar-09, Apr-20	14 taxa	B.3	143 days	0.0084
UK894	Apr-03, May-30	14 taxa	B.1.1	103 days	0.0426
UK132	Mar-27, May-13	14 taxa	B.1	120 days	0.028
UK592	Apr-23, Jul-07	14 taxa	B.1	65 days	0.0932
UK1723	Mar-20, Aug-24	14 taxa	B.1, B.1.30, B.1.5	17 days	0.5131
UK2063	Mar-21, May-06	14 taxa	B.1.1	127 days	0.0241
UK478	Apr-10, Jul-15	14 taxa	B.1, B.1.5	57 days	0.1296
UK780	Jul-05, Aug-20	14 taxa	B.1.3	21 days	0.1685

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UK620	Mar-23, May-01	14 taxa	B.1	132 days	0.0227
UK399	Aug-14, Sep-01	14 taxa	B.1	9 days	0.0905
UK1141	Mar-14, Jun-10	14 taxa	B.1.1	92 days	0.0638
UK1919	Mar-30, May-01	14 taxa	B.1.1	132 days	0.0162
UK193	Mar-17, Jul-24	14 taxa	B.2.1	48 days	0.2067
UK2061	Mar-17, Jul-18	13 taxa	B.1.1	54 days	0.1898
UK1114	Mar-20, Apr-02	13 taxa	B.1.1	161 days	0.0067
UK568	Mar-23, May-02	13 taxa	B.2	131 days	0.0254
UK499	Mar-05, Apr-13	13 taxa	B.2.6, B.2, B.2.1	150 days	0.02
UK1497	Mar-23, May-05	13 taxa	B.1.1.1, B.1.1	128 days	0.028
UK1559	Mar-20, Apr-25	13 taxa	B.1.11	138 days	0.0217
UK2097	Mar-08, Apr-30	13 taxa	B.1.1	133 days	0.0332
UK34	Feb-27, Aug-19	13 taxa	B.2.1, B.4	22 days	0.6591
UK1803	Mar-26, Jul-02	13 taxa	B.1.1	70 days	0.1167
UK1207	Mar-26, May-04	13 taxa	B.1	129 days	0.0233
UK1216	Mar-29, May-14	13 taxa	B.1, B.1.5	119 days	0.0322
UK2030	Apr-22, Jul-22	13 taxa	B.1.1	50 days	0.1738
UK1295	Mar-29, May-03	13 taxa	B.1.1	130 days	0.0224
UK1362	Mar-09, Aug-12	13 taxa	B.1.1, B.1.1.15	29 days	0.4483
UK160	Apr-23, Jul-01	12 taxa	B.1	71 days	0.0883
UK1852	Mar-17, Jul-18	12 taxa	B.1.1.1, B.1.1	54 days	0.1898
UK1528	Jul-20, Aug-20	12 taxa	B.1.1	21 days	0.1136
UK962	Apr-02, Jun-12	12 taxa	B.1.1	90 days	0.0717
UK1026	Mar-31, May-15	12 taxa	B.1.1	118 days	0.0127
UK1050	Mar-24, Aug-26	12 taxa	B.1.1	15 days	0.9394
UK967	Jul-14, Aug-20	12 taxa	B.1.1	21 days	0.1602
UK1124	Mar-26, Jul-26	12 taxa	B.1.1, B.1.1.32	46 days	0.204
UK1681	Apr-14, Jun-16	12 taxa	B.1.1.1, B.1.1	86 days	0.0666
UK1570	Mar-18, Jun-23	12 taxa	B.1.1	79 days	0.1116

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UK1314	Mar-31, Aug-02	12 taxa	B.1.1	39 days	0.289
UK713	Mar-28, Apr-04	12 taxa	B.1.1	159 days	0.004
UK826	Jun-12, Aug-21	12 taxa	B.1.36, B.1	20 days	0.3182
UK1336	Apr-09, Jul-26	12 taxa	B.1, B.1.77	46 days	0.2134
UK256	Mar-15, May-07	12 taxa	B.2, B.2.4	126 days	0.0382
UK5525	Mar-31, Apr-29	12 taxa	B.1	134 days	0.0197
UK819	Aug-02, Aug-13	12 taxa	B.1, B.1.113	28 days	0.0357
UK266	Apr-06, Apr-30	11 taxa	B.1	133 days	0.018
UK1088	Mar-22, Jun-25	11 taxa	B.1.1	77 days	0.1234
UK415	Apr-19, May-06	11 taxa	B.1.111	127 days	0.0134
UK934	Mar-25, Apr-13	11 taxa	B.1.1	150 days	0.0127
UK561	Mar-01, Apr-15	11 taxa	B.1	148 days	0.0276
UK1488	Mar-26, Apr-20	11 taxa	B.1.5	143 days	0.0175
UK1359	Apr-09, May-18	11 taxa	B.1.1	115 days	0.0339
UK2053	Mar-21, Apr-27	11 taxa	B.1.1	136 days	0.0272
UK1161	Jul-06, Aug-21	11 taxa	B.1.1	20 days	0.23
UK1979	Apr-05, Jun-13	11 taxa	B.1.1	89 days	0.0775
UK696	Apr-05, Jun-23	11 taxa	B.1.1	79 days	0.1
UK1844	Mar-24, Aug-18	11 taxa	B.1.1	23 days	0.5797
UK1830	Apr-03, Jul-02	11 taxa	B.1.1	70 days	0.1208
UK1178	Apr-03, Apr-27	11 taxa	B.1.1, B.1.1.15	136 days	0.0126
UK1135	Apr-02, Apr-21	11 taxa	B.1.1.10, B.1.1	142 days	0.0111
UK1960	Mar-31, May-19	11 taxa	B.1.1	114 days	0.043
UK1881	Apr-14, May-18	11 taxa	B.1.1	115 days	0.0296
UK22	Mar-02, Apr-21	11 taxa	B	142 days	0.0352
UK1411	Jun-13, Jul-15	11 taxa	B.1.1	57 days	0.0561
UK1827	Mar-24, Aug-18	10 taxa	B.1.1	23 days	0.7101
UK390	Mar-26, May-01	10 taxa	B.1	132 days	0.0303
UK1817	Apr-04, Jun-23	10 taxa	B.1.1	79 days	0.1013

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UK693	Mar-14, Mar-26	10 taxa	A.2	168 days	0.0079
UK1612	Aug-09, Aug-21	10 taxa	B.1.1	20 days	0.0667
UK1525	Apr-21, Jun-12	10 taxa	B.1.1	90 days	0.0642
UK1247	Aug-04, Aug-21	10 taxa	B.1	20 days	0.0944
UK842	Apr-02, Jun-15	10 taxa	B.1	87 days	0.0636
UK558	Feb-29, Apr-22	10 taxa	B.2	141 days	0.0376
UK788	Feb-28, Mar-05	10 taxa	B.4	189 days	0.0035
UK2095	Jul-03, Aug-10	10 taxa	B.1.1	31 days	0.1362
UK176	Mar-13, Apr-16	10 taxa	B.3	147 days	0.0257
UK1982	Apr-03, Jun-17	10 taxa	B.1.1	85 days	0.0697
UK786	Mar-07, May-14	10 taxa	B.1.1	119 days	0.0571
UK1244	Jul-15, Jul-25	10 taxa	B.1, B.1.115	47 days	0.0236
UK1273	Jul-15, Jul-27	9 taxa	B.1.1	45 days	0.0333
UK1715	Apr-28, May-22	9 taxa	B.1.1	111 days	0.027
UK874	Feb-27, Mar-05	9 taxa	B.1.1	189 days	0.0046
UK584	Mar-21, Apr-02	9 taxa	B.2.1	161 days	0.011
UK760	Apr-09, May-28	9 taxa	B.1.1	105 days	0.0583
UK230	Mar-10, Apr-07	9 taxa	B.2.1	156 days	0.0224
UK1369	Mar-18, May-11	9 taxa	B.1.1	122 days	0.0553
UK809	May-25, Jun-29	9 taxa	B.1.36	73 days	0.0599
UK351	Apr-04, May-13	9 taxa	B.1	120 days	0.0406
UK1332	Mar-28, May-19	9 taxa	B.1	114 days	0.0182
UK1200	Mar-18, Jul-18	9 taxa	B.1.1	54 days	0.251
UK2051	Jun-01, Jul-28	9 taxa	B.1.1	44 days	0.1619
UK1974	Mar-23, Aug-16	9 taxa	B.1.1	25 days	0.6489
UK1899	May-05, May-29	9 taxa	B.1.1	104 days	0.0652
UK58	Mar-13, Apr-24	9 taxa	B.1	139 days	0.0119
UK450	Mar-30, Jun-17	9 taxa	B.1	85 days	0.1162

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UK1780	Mar-11, Jun-03	9 taxa	B.1.1	99 days	0.1061
UK575	Mar-14, Apr-16	9 taxa	B.2.1	147 days	0.0281
UK1617	Apr-02, Aug-18	9 taxa	B.1.1	23 days	0.75
UK609	Mar-08, Apr-29	9 taxa	B.2	134 days	0.0485
UK1361	Jul-15, Aug-02	9 taxa	B.1.1, B.1.1.15	39 days	0.0577
UK1199	Mar-04, Apr-14	9 taxa	B.1, B.1.5	149 days	0.0344
UK1641	Mar-29, Jun-05	9 taxa	B.1.1	97 days	0.0836
UK366	Apr-04, Apr-24	9 taxa	B.1	139 days	0.018
UK1860	Mar-30, Jun-14	9 taxa	B.1.1	88 days	0.108
UK1946	Apr-17, May-19	8 taxa	B.1.1	114 days	0.0401
UK743	Feb-24, Jun-14	8 taxa	B.1.102, B.1.5	88 days	0.1802
UK2065	Mar-29, May-14	8 taxa	B.1.1	119 days	0.0552
UK941	Apr-02, Apr-22	8 taxa	B.1.1	141 days	0.0203
UK520	Mar-14, Apr-08	8 taxa	B.2.1	155 days	0.023
UK1767	Mar-26, Apr-10	8 taxa	B.1.1	153 days	0.0123
UK437	Mar-23, May-14	8 taxa	B.1	119 days	0.0437
UK799	Mar-01, Mar-07	8 taxa	B.1	187 days	0.0046
UK739	Mar-01, Mar-08	8 taxa	B.4	186 days	0.0054
UK1996	Apr-02, Jul-20	8 taxa	B.1.1.1, B.1.1	52 days	0.2329
UK288	Mar-12, Apr-04	8 taxa	B.2.1	159 days	0.0132
UK870	Mar-16, Apr-23	8 taxa	B.1.1	140 days	0.0339
UK1398	Mar-30, Jun-07	8 taxa	B.1.1	95 days	0.083
UK40	Mar-27, Jun-23	8 taxa	B, B.16	79 days	0.0049
UK5084	Mar-29, Jun-18	8 taxa	B.1	84 days	0.0898
UK343	Mar-21, Apr-28	8 taxa	B.1.105	135 days	0.0402
UK1609	Mar-11, Jun-14	8 taxa	B.1.1	88 days	0.1542
UK1366	Mar-24, Jun-11	8 taxa	B.1.1	91 days	0.124
UK1932	Mar-23, Jul-13	8 taxa	B.1.1	59 days	0.2712
UK1515	Apr-04, Jun-15	8 taxa	B.1.1	87 days	0.1182

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK1120	Apr-13, Aug-10	8 taxa	B.1.1	31 days	0.5484
UK946	Mar-25, Apr-23	8 taxa	B.1	140 days	0.0259
UK1262	Apr-02, Jun-16	8 taxa	B.1.1	86 days	0.1246
UK747	Mar-19, Apr-18	8 taxa	B.1	145 days	0.0296
UK2010	Mar-17, Apr-15	8 taxa	B.1.1	148 days	0.028
UK1893	May-10, Aug-17	8 taxa	B.1.1	24 days	0.5893
UK1346	Mar-10, Jul-10	8 taxa	B.1.1	62 days	0.0833
UK158	Mar-11, Apr-02	7 taxa	B.2.4	161 days	0.0228
UK1064	Apr-05, Apr-19	7 taxa	B.1	144 days	0.0162
UK197	Mar-10, Apr-06	7 taxa	B.2.1	157 days	0.0287
UK728	Mar-19, Apr-01	7 taxa	B.2.1	162 days	0.0134
UK856	Mar-21, Apr-20	7 taxa	B.1.5	143 days	0.03
UK2082	Mar-14, Aug-11	7 taxa	B.1.1	30 days	0.7143
UK1119	Apr-04, Jul-16	7 taxa	B.1.1	56 days	0.0145
UK311	Mar-25, Apr-18	7 taxa	B.2	145 days	0.0236
UK1191	Mar-29, Aug-14	7 taxa	B.1.1	27 days	0.7302
UK697	Jun-08, Jul-02	7 taxa	B.1	70 days	0.0571
UK689	Jul-15, Aug-21	7 taxa	B.1.1	20 days	0.3083
UK247	Mar-17, Apr-23	7 taxa	B.1	140 days	0.044
UK1967	Mar-30, Apr-21	7 taxa	B.1.1	142 days	0.0221
UK889	Apr-19, Aug-18	7 taxa	B.1	23 days	0.587
UK1583	Aug-09, Aug-18	7 taxa	B.1.1	23 days	0.0652
UK1105	Jul-03, Aug-20	7 taxa	B.1	21 days	0.1203
UK1347	May-18, Jun-04	7 taxa	B.1.1	98 days	0.0255
UK1275	Mar-22, Apr-10	7 taxa	B.1.1	153 days	0.0207
UK401	Mar-02, Jul-10	7 taxa	B.6, B.2.1, B	62 days	0.3495
UK901	Apr-14, Apr-23	7 taxa	B.1.1	140 days	0.0107

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK1090	May-04, Aug-17	7 taxa	B.1	24 days	0.625
UK1005	Mar-31, Apr-19	7 taxa	B.1.1	144 days	0.022
UK1667	Apr-17, Jun-02	7 taxa	B.1, B.1.9	100 days	0.017
UK930	Mar-04, Mar-30	7 taxa	B.1.1	164 days	0.0264
UK638	Mar-02, Apr-04	7 taxa	B.1.1	159 days	0.0231
UK330	Apr-02, Jul-02	7 taxa	B.1, B.1.5	70 days	0.0693
UK2034	Apr-08, Jun-28	7 taxa	B.1.1	74 days	0.1564
UK2098	Mar-28, Jun-24	7 taxa	B.1.1	78 days	0.188
UK1224	Jul-12, Jul-27	7 taxa	B.1.1.1	45 days	0.0556
UK240	Mar-27, Aug-06	7 taxa	B.1	35 days	0.4222
UK703	Mar-29, Apr-17	7 taxa	B.1.1	146 days	0.0163
UK1992	Apr-02, May-05	7 taxa	B.1.1	128 days	0.0247
UK98	Mar-23, Jun-04	7 taxa	B.6	98 days	0.1241
UK1743	Apr-27, Jun-30	7 taxa	B.1.1	72 days	0.142
UK1325	Mar-31, May-17	7 taxa	B.1.1	116 days	0.0675
UK14	Mar-02, May-21	7 taxa	B	112 days	0.0119
UK164	Mar-24, Apr-16	7 taxa	B.2.1	147 days	0.0261
UK464	Mar-17, May-04	7 taxa	B.1.5	129 days	0.0413
UK508	Mar-20, Apr-30	7 taxa	B.1.5.6	133 days	0.0096
UK67	Mar-03, Jul-19	6 taxa	B.4	53 days	0.5208
UK705	Mar-16, Mar-26	6 taxa	B.1	168 days	0.0119
UK1975	Mar-16, Aug-17	6 taxa	B.1.1	24 days	1.2833
UK654	Feb-27, Mar-08	6 taxa	B.2	186 days	0.0108
UK552	Mar-23, Apr-04	6 taxa	A.1	159 days	0.0107
UK635	Mar-17, Apr-15	6 taxa	B.2	148 days	0.0327
UK236	Mar-12, Mar-27	6 taxa	B.2.1, B.2	167 days	0.018
UK650	May-24, Aug-29	6 taxa	B.1.1	12 days	1.6167
UK187	Mar-28, Jun-05	6 taxa	B.1	97 days	0.0094

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK1174	Mar-16, Apr-11	6 taxa	B.1	152 days	0.0342
UK1269	Jun-21, Aug-31	6 taxa	B.1.1.1, B.1.1	10 days	0.8875
UK1833	Mar-17, Jul-14	6 taxa	B.1.1	58 days	0.2931
UK1700	Apr-01, Apr-14	6 taxa	B.1	149 days	0.0174
UK177	Mar-11, Jun-17	6 taxa	B	85 days	0.1471
UK797	Mar-25, Apr-08	6 taxa	B.1.11	155 days	0.0181
UK1971	Mar-23, Jul-01	6 taxa	B.1.1	71 days	0.2817
UK1208	Jul-04, Aug-21	6 taxa	B.1.1.1	20 days	0.48
UK1598	Apr-05, Apr-21	6 taxa	B.1.1	142 days	0.0225
UK783	Mar-12, Apr-20	6 taxa	B.1	143 days	0.0455
UK1640	Apr-16, Apr-21	6 taxa	B.1.1	142 days	0.007
UK787	Mar-12, May-18	6 taxa	B.1.1.33, B.1.1	115 days	0.0971
UK2049	Mar-28, Apr-25	6 taxa	B.1.1	138 days	0.0338
UK943	Mar-29, Jun-24	6 taxa	B.1.1	78 days	0.2231
UK621	Mar-23, Apr-02	6 taxa	A.1	161 days	0.0124
UK1791	Mar-23, May-11	6 taxa	B.1.1	122 days	0.0803
UK1822	Mar-27, Jul-04	6 taxa	B.1.1	68 days	0.2912
UK1081	Apr-07, May-05	6 taxa	B.1.1	128 days	0.0446
UK805	Apr-15, Jul-21	6 taxa	B.1.1	51 days	0.0229
UK778	May-01, Jun-20	6 taxa	B.1.1	82 days	0.122
UK270	Mar-04, Apr-03	6 taxa	B	160 days	0.0312
UK1836	Mar-29, Jun-13	6 taxa	B.1.1	89 days	0.1477
UK105	Mar-23, Apr-21	6 taxa	B.3	142 days	0.0408
UK1596	Apr-16, Jun-16	6 taxa	B.1	86 days	0.1419
UK526	Mar-23, May-18	6 taxa	B.1	115 days	0.0974
UK887	Apr-21, Jul-04	6 taxa	B.1.1	68 days	0.2176
UK161	Mar-18, Apr-04	6 taxa	B.2.4	159 days	0.0153
UK1961	Apr-08, Jun-11	6 taxa	B.1.1	91 days	0.1407

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK564	Jun-07, Jun-25	6 taxa	B.1	77 days	0.0468
UK1412	Mar-25, Apr-29	6 taxa	B.1.1	134 days	0.0522
UK1923	Apr-04, Jul-01	6 taxa	B.1.1	71 days	0.2479
UK1898	Mar-18, Apr-11	6 taxa	B.1.1	152 days	0.0263
UK1083	Mar-22, Aug-12	6 taxa	B.1.1	29 days	0.9862
UK2004	Mar-26, Jun-14	6 taxa	B.1.1	88 days	0.1515
UK947	Jul-16, Jul-18	6 taxa	B.1.1	54 days	0.0074
UK590	Mar-14, Apr-01	6 taxa	B.2.1	162 days	0.0222
UK643	Mar-24, Apr-22	6 taxa	B.2.1	141 days	0.0411
UK1285	May-05, Jul-15	6 taxa	B.1, B.1.5	57 days	0.2491
UK1139	Mar-26, Apr-27	6 taxa	B.1.1	136 days	0.0471
UK1082	May-02, Jun-10	6 taxa	B.1	92 days	0.0848

Table S2 Raw data for figure two showing lags between the most recent sequence and current date for each sequencing centre

	Centre	Lag in days
0	NOTT	3
1	BIRM	11
2	LIVE	13
3	NORW	13
4	SANG	14
5	SHEF	19
6	PHEC	20
7	CAMB	25
8	PORT	26
9	NORT	59
10	OXON	95
11	EXET	96
12	LOND	122

Table S3 Raw data for figure three showing the number of admin2 regions a lineage is present in over time

Week commencing	UK5	UK1951	UK175	UK1205	UK1271	UK1683	UK109	UK199	UK2068	UK1145
2020-02-16	1	0	0	0	0	0	0	0	0	0
2020-02-23	1	0	4	0	0	0	0	1	0	0
2020-03-01	10	1	11	5	0	0	0	2	0	0
2020-03-08	19	4	11	15	0	2	2	7	0	0
2020-03-15	27	12	21	8	0	5	6	12	0	0
2020-03-22	39	18	24	10	0	13	11	16	3	4
2020-03-29	38	19	26	18	0	11	11	22	8	6

Week commencing	UK5	UK1951	UK175	UK1205	UK1271	UK1683	UK109	UK199	UK2068	UK1145
2020-04-05	40	20	29	15	1	7	13	15	6	5
2020-04-12	46	20	23	13	0	9	7	18	6	3
2020-04-19	46	26	21	15	0	12	8	16	4	5
2020-04-26	47	24	18	9	0	12	6	11	2	0
2020-05-03	44	16	13	10	0	7	5	7	2	3
2020-05-10	42	23	11	9	1	8	7	6	1	2
2020-05-17	32	28	11	11	1	8	5	7	3	0
2020-05-24	18	14	5	9	1	2	1	1	1	0
2020-05-31	34	16	12	13	3	4	8	5	2	1
2020-06-07	33	21	20	19	6	6	11	10	6	6
2020-06-14	30	19	12	17	7	5	8	8	4	6
2020-06-21	25	11	14	13	9	4	10	8	3	4
2020-06-28	27	12	12	7	7	4	6	7	5	7
2020-07-05	18	2	3	5	2	0	5	5	2	1
2020-07-12	25	8	6	8	4	4	9	5	6	3
2020-07-19	20	8	10	7	2	4	5	7	5	3
2020-07-26	13	2	4	4	2	5	2	2	1	5
2020-08-02	17	2	8	8	3	4	3	7	3	6
2020-08-09	25	4	8	8	6	6	5	7	2	7
2020-08-16	25	5	7	2	4	4	4	6	1	3
2020-08-23	11	0	0	0	1	0	0	1	0	1
2020-08-30	2	0	0	0	0	0	0	0	0	0

Table S4 is not appropriate for this report and so has been omitted.

Table S5 Raw data for figure five showing when lineages started per day, divided by singletons and non-singletons

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-01-29	0	1	1
2020-02-03	0	1	1
2020-02-05	0	1	1
2020-02-09	0	1	1
2020-02-16	0	1	1
2020-02-23	0	1	1
2020-02-24	0	3	3
2020-02-25	0	2	2
2020-02-26	1	3	4
2020-02-27	1	5	6
2020-02-28	2	5	7
2020-02-29	0	4	4
2020-03-01	1	6	7
2020-03-02	4	12	16
2020-03-03	1	8	9
2020-03-04	1	8	9
2020-03-05	3	7	10
2020-03-06	2	15	17
2020-03-07	2	6	8
2020-03-08	3	10	13
2020-03-09	5	11	16
2020-03-10	4	16	20
2020-03-11	9	28	37
2020-03-12	6	31	37
2020-03-13	9	20	29
2020-03-14	9	10	19
2020-03-15	7	10	17
2020-03-16	2	16	18
2020-03-17	10	37	47
2020-03-18	9	20	29

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-03-19	9	21	30
2020-03-20	13	25	38
2020-03-21	12	23	35
2020-03-22	13	15	28
2020-03-23	17	40	57
2020-03-24	19	33	52
2020-03-25	18	32	50
2020-03-26	11	39	50
2020-03-27	12	32	44
2020-03-28	23	24	47
2020-03-29	21	33	54
2020-03-30	16	30	46
2020-03-31	18	36	54
2020-04-01	18	23	41
2020-04-02	25	17	42
2020-04-03	14	24	38
2020-04-04	14	30	44
2020-04-05	9	17	26
2020-04-06	12	23	35
2020-04-07	15	13	28
2020-04-08	15	19	34
2020-04-09	16	12	28
2020-04-10	8	9	17
2020-04-11	9	6	15
2020-04-12	8	6	14
2020-04-13	14	8	22
2020-04-14	11	14	25
2020-04-15	10	13	23
2020-04-16	13	8	21
2020-04-17	7	7	14
2020-04-18	5	5	10
2020-04-19	8	7	15
2020-04-20	11	4	15
2020-04-21	7	5	12
2020-04-22	3	9	12
2020-04-23	7	6	13
2020-04-24	4	4	8
2020-04-25	5	1	6
2020-04-26	2	1	3
2020-04-27	9	4	13
2020-04-28	2	5	7
2020-04-29	0	3	3
2020-04-30	8	2	10
2020-05-01	5	3	8
2020-05-02	5	2	7
2020-05-04	6	2	8
2020-05-05	2	3	5
2020-05-06	1	2	3
2020-05-07	1	4	5
2020-05-09	0	1	1
2020-05-10	0	1	1
2020-05-11	2	2	4
2020-05-12	4	2	6
2020-05-13	1	2	3
2020-05-14	5	3	8
2020-05-15	1	0	1
2020-05-16	1	0	1
2020-05-17	4	0	4
2020-05-18	3	3	6

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-05-19	4	3	7
2020-05-20	1	1	2
2020-05-21	0	1	1
2020-05-22	1	1	2
2020-05-24	0	1	1
2020-05-25	1	1	2
2020-05-26	1	0	1
2020-05-27	0	1	1
2020-05-29	1	1	2
2020-06-01	1	2	3
2020-06-02	0	1	1
2020-06-03	1	0	1
2020-06-04	2	1	3
2020-06-05	2	1	3
2020-06-06	1	1	2
2020-06-07	4	2	6
2020-06-08	4	5	9
2020-06-09	5	3	8
2020-06-10	1	0	1
2020-06-11	4	1	5
2020-06-12	2	5	7
2020-06-13	3	3	6
2020-06-14	2	3	5
2020-06-15	5	0	5
2020-06-16	6	1	7
2020-06-17	1	0	1
2020-06-18	3	0	3
2020-06-19	1	2	3
2020-06-20	1	0	1
2020-06-21	0	2	2
2020-06-22	0	1	1
2020-06-23	1	0	1
2020-06-24	2	0	2
2020-06-26	1	0	1
2020-06-27	1	1	2
2020-06-29	2	2	4
2020-06-30	1	0	1
2020-07-01	2	1	3
2020-07-02	0	1	1
2020-07-03	4	2	6
2020-07-04	3	1	4
2020-07-05	1	3	4
2020-07-06	0	3	3
2020-07-10	1	0	1
2020-07-11	1	1	2
2020-07-12	0	1	1
2020-07-13	1	2	3
2020-07-14	1	3	4
2020-07-15	3	6	9
2020-07-16	4	3	7
2020-07-17	4	3	7
2020-07-18	3	1	4
2020-07-19	2	1	3
2020-07-20	2	4	6
2020-07-21	1	2	3
2020-07-22	0	1	1
2020-07-23	1	1	2
2020-07-24	1	1	2
2020-07-28	1	0	1

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-07-29	3	0	3
2020-07-30	1	0	1
2020-07-31	1	0	1
2020-08-02	0	2	2
2020-08-03	1	3	4
2020-08-04	1	2	3
2020-08-05	1	3	4
2020-08-06	1	1	2
2020-08-07	1	1	2
2020-08-08	2	1	3
2020-08-09	4	5	9
2020-08-10	2	5	7
2020-08-11	2	3	5
2020-08-12	2	2	4
2020-08-13	2	0	2
2020-08-14	1	0	1
2020-08-15	0	1	1
2020-08-17	3	2	5
2020-08-18	6	3	9
2020-08-19	0	1	1
2020-08-20	2	0	2
2020-08-21	2	0	2
2020-08-24	1	0	1
2020-08-26	1	0	1
2020-08-29	1	0	1
2020-09-02	1	0	1
2020-09-07	1	0	1

Table S6 Raw data for figure six showing the number of sequences taken over time.

Day	England
2020-01-29	1
2020-02-03	1
2020-02-05	1
2020-02-08	2
2020-02-09	1
2020-02-13	1
2020-02-16	1
2020-02-23	2
2020-02-24	5
2020-02-25	7
2020-02-26	7
2020-02-27	19
2020-02-28	26
2020-02-29	25
2020-03-01	63
2020-03-02	90
2020-03-03	108
2020-03-04	114
2020-03-05	104
2020-03-06	92
2020-03-07	59
2020-03-08	69
2020-03-09	91
2020-03-10	135
2020-03-11	194
2020-03-12	258
2020-03-13	165

Day	England
2020-03-14	127
2020-03-15	122
2020-03-16	154
2020-03-17	230
2020-03-18	308
2020-03-19	275
2020-03-20	315
2020-03-21	343
2020-03-22	270
2020-03-23	615
2020-03-24	568
2020-03-25	505
2020-03-26	629
2020-03-27	501
2020-03-28	524
2020-03-29	516
2020-03-30	695
2020-03-31	698
2020-04-01	577
2020-04-02	621
2020-04-03	661
2020-04-04	534
2020-04-05	489
2020-04-06	599
2020-04-07	602
2020-04-08	617
2020-04-09	501
2020-04-10	499
2020-04-11	437
2020-04-12	352
2020-04-13	425
2020-04-14	532
2020-04-15	522
2020-04-16	541
2020-04-17	503
2020-04-18	361
2020-04-19	312
2020-04-20	450
2020-04-21	378
2020-04-22	435
2020-04-23	389
2020-04-24	298
2020-04-25	181
2020-04-26	168
2020-04-27	313
2020-04-28	304
2020-04-29	356
2020-04-30	305
2020-05-01	314
2020-05-02	182
2020-05-03	148
2020-05-04	285
2020-05-05	210
2020-05-06	230
2020-05-07	211
2020-05-08	131
2020-05-09	93
2020-05-10	117
2020-05-11	239

Day	England
2020-05-12	217
2020-05-13	164
2020-05-14	157
2020-05-15	106
2020-05-16	79
2020-05-17	86
2020-05-18	252
2020-05-19	199
2020-05-20	148
2020-05-21	95
2020-05-22	102
2020-05-23	33
2020-05-24	45
2020-05-25	96
2020-05-26	91
2020-05-27	100
2020-05-28	68
2020-05-29	43
2020-05-30	56
2020-05-31	56
2020-06-01	122
2020-06-02	211
2020-06-03	81
2020-06-04	115
2020-06-05	75
2020-06-06	86
2020-06-07	240
2020-06-08	330
2020-06-09	332
2020-06-10	338
2020-06-11	462
2020-06-12	503
2020-06-13	353
2020-06-14	377
2020-06-15	377
2020-06-16	354
2020-06-17	374
2020-06-18	248
2020-06-19	344
2020-06-20	165
2020-06-21	184
2020-06-22	202
2020-06-23	277
2020-06-24	311
2020-06-25	243
2020-06-26	59
2020-06-27	86
2020-06-28	23
2020-06-29	177
2020-06-30	204
2020-07-01	225
2020-07-02	220
2020-07-03	229
2020-07-04	155
2020-07-05	56
2020-07-06	67
2020-07-07	13
2020-07-08	9
2020-07-09	13

Day	England
2020-07-10	26
2020-07-11	35
2020-07-12	21
2020-07-13	78
2020-07-14	116
2020-07-15	275
2020-07-16	190
2020-07-17	171
2020-07-18	98
2020-07-19	63
2020-07-20	106
2020-07-21	83
2020-07-22	113
2020-07-23	104
2020-07-24	99
2020-07-25	55
2020-07-26	41
2020-07-27	81
2020-07-28	28
2020-07-29	27
2020-07-30	52
2020-07-31	36
2020-08-01	18
2020-08-02	49
2020-08-03	62
2020-08-04	80
2020-08-05	90
2020-08-06	127
2020-08-07	68
2020-08-08	47
2020-08-09	134
2020-08-10	240
2020-08-11	117
2020-08-12	144
2020-08-13	138
2020-08-14	127
2020-08-15	62
2020-08-16	29
2020-08-17	193
2020-08-18	243
2020-08-19	92
2020-08-20	176
2020-08-21	162
2020-08-22	7
2020-08-23	3
2020-08-24	6
2020-08-25	34
2020-08-26	35
2020-08-27	3
2020-08-28	5
2020-08-29	21
2020-08-30	2
2020-08-31	12
2020-09-01	3
2020-09-02	6
2020-09-07	2
2020-09-09	1
2020-09-10	4

Table S7 Raw data for the figure seven with the number of sequences assigned to each admin2 region.

Admin2	Country	Number of sequences	Sequence group
BEDFORDSHIRE	England	620	600-700
BERKSHIRE	England	78	10-100
BLACKBURN WITH DARWEN	England	0	0
BLACKPOOL	England	0	0
BOURNEMOUTH	England	0	0
BRIGHTON AND HOVE	England	18	10-100
BRISTOL	England	35	10-100
BUCKINGHAMSHIRE	England	544	500-600
CAMBRIDGESHIRE	England	990	700-1000
CHESHIRE	England	459	400-500
CORNWALL	England	46	10-100
CUMBRIA	England	498	400-500
DARLINGTON	England	0	0
DERBY	England	0	0
DERBYSHIRE	England	214	200-300
DEVON	England	534	500-600
DORSET	England	273	200-300
DURHAM	England	417	400-500
EAST RIDING OF YORKSHIRE	England	144	100-200
ESSEX	England	1786	1000-2000
GLOUCESTERSHIRE	England	1055	1000-2000
GREATER LONDON	England	3712	>2000
GREATER MANCHESTER	England	746	700-1000
HALTON	England	0	0
HAMPSHIRE	England	839	700-1000
HARTLEPOOL	England	0	0
HEREFORDSHIRE	England	99	10-100
HERTFORDSHIRE	England	1227	1000-2000
ISLE OF WIGHT	England	5	1-10
ISLES OF SCILLY	England	0	0
KENT	England	154	100-200
KINGSTON UPON HULL	England	0	0
LANCASHIRE	England	1043	1000-2000
LEICESTER	England	0	0
LEICESTERSHIRE	England	1968	1000-2000
LINCOLNSHIRE	England	258	200-300
MEDWAY	England	0	0
MERSEYSIDE	England	1563	1000-2000
MIDDLESBROUGH	England	0	0
MILTON KEYNES	England	0	0
NORFOLK	England	804	700-1000
NORTH LINCOLNSHIRE	England	0	0
NORTH YORKSHIRE	England	479	400-500
NORTHAMPTONSHIRE	England	154	100-200
NORTHUMBERLAND	England	231	200-300
NOTTINGHAM	England	927	700-1000
NOTTINGHAMSHIRE	England	301	300-400
OXFORDSHIRE	England	169	100-200
PETERBOROUGH	England	0	0
PLYMOUTH	England	2	1-10
POOLE	England	0	0
PORTSMOUTH	England	0	0
REDCAR AND CLEVELAND	England	0	0
RUTLAND	England	5	1-10
SHROPSHIRE	England	49	10-100
SOMERSET	England	903	700-1000
SOUTH GLOUCESTERSHIRE	England	0	0

Admin2	Country	Number of sequences	Sequence group
SOUTH YORKSHIRE	England	2717	>2000
SOUTHAMPTON	England	0	0
SOUTHEND-ON-SEA	England	1	1-10
STAFFORDSHIRE	England	158	100-200
STOCKTON-ON-TEES	England	0	0
STOKE-ON-TRENT	England	1	1-10
SUFFOLK	England	728	700-1000
SURREY	England	145	100-200
SUSSEX	England	170	100-200
SWINDON	England	0	0
TELFORD AND WREKIN	England	0	0
THURROCK	England	0	0
TORBAY	England	0	0
TYNE AND WEAR	England	738	700-1000
WARRINGTON	England	0	0
WARWICKSHIRE	England	50	10-100
WEST MIDLANDS	England	746	700-1000
WEST YORKSHIRE	England	1091	1000-2000
WILTSHIRE	England	647	600-700
WORCESTERSHIRE	England	41	10-100
YORK	England	0	0