

Supplementary Table S1. Districts of SR with number of total sequenced positive SARS-CoV-2 samples.

District	No. of samples	District	No. of samples	District	No. of samples	District	No. of samples
Bratislava	3894	Myjava	437	Pezinok	198	Bánovce nad Bebravou	82
Poprad	1808	Brezno	390	Lučenec	180	Partizánske	79
Trenčín	1726	Martin	387	Považská Bystrica	179	Banská Štiavnica	77
Prešov	1621	Sabinov	377	Snina	162	Šaľa	76
Ilava	1300	Michalovce	368	Piešťany	151	Žarnovica	74
Košice	1067	Ružomberok	356	Žiar nad Hronom	147	Levoča	68
Trnava	913	Prievidza	341	Zvolen	139	Rožňava	64
Nitra	705	Tvrdošín	340	Sobrance	133	Bytča	62
Malacky	641	Námestovo	327	Topoľčany	129	Krupina	60
Banská Bystrica	632	Senica	277	Humenné	128	Zlaté Moravce	58
Komárno	593	Čadca	255	Bardejov	127	Rimavská Sobota	57
Žilina	591	Púchov	255	Kysucké Nové Mesto	119	Dolný Kubín	52
Trebišov	580	Kežmarok	244	Stropkov	109	Gelnica	48
Nové Zámky	518	Dunajská Streda	240	Nové Mesto nad Váhom	107	Turčianske Teplice	48
Galanta	489	Liptovský Mikuláš	239	Veľký Krtíš	102	Revúca	38
Skalica	476	Spišská Nová Ves	239	Svidník	92	Poltár	29
Košice - okolie	474	Levice	215	Vranov nad Topľou	91	Detva	23
Senec	470	Stará Ľubovňa	210	Hlohovec	85	Medzilaborce	21

Supplementary Table S2. List of 165 lineages detected from March 1, 2021 up to March 31, 2022.

Lineage	No. of samples	Lineage	No. of samples	Lineage	No. of samples	Lineage	No. of samples	Lineage	No. of samples
BA.2	4268	AY.5	52	AY.9	15	AY.3	3	B.1.617.1	1
BA.1.1	3390	BA.1.14	52	AY.113	14	AY.105	3	B.1.1	1
B.1.1.7	3143	AY.23	50	AY.41	13	AY.4.9	3	B.1.1.523	1
AY.43	3127	AY.84	44	BA.2.25	13	AY.5.4	3	B.1.621.1	1
AY.4	1587	AY.60	44	B.1.258	12	AY.33.2	3	Q.7	1
AY.122	1500	AY.70	42	AY.117	11	BA.1.1.16	3	B.1.619	1
BA.1	1376	BA.2.25.1	42	AY.120	10	BA.2.23	3	AY.69	1
BA.2.9	1330	AY.125	39	AY.98	10	B.1	2	AY.110	1
AY.9.2	1007	BA.1.1.4	39	AY.53	9	A	2	AY.54	1
BA.1.1.1	994	BA.1.15.1	38	AY.23.2	9	C.36	2	A.29	1
AY.126	672	BA.1.1.11	35	BA.1.13	9	B.1.621	2	AY.93	1
AY.43.9	596	AY.129	34	AY.33	8	AY.1	2	AY.37	1
BA.1.17.2	502	AY.94	31	AY.25.1	8	AY.46.4	2	AY.5.5	1
BA.1.18	367	AY.127	30	B.1.160	7	AZ.2	2	AY.4.14	1
AY.98.1	290	BA.1.8	27	B.3	6	AY.46.5	2	AY.16	1
B.1.617.2	287	BA.1.21	27	AY.44	6	AY.106	2	AY.128	1
AY.46.6	271	BA.2.5	27	AY.4.5	6	AY.100	2	AY.134	1
AY.42	206	AY.6	26	AY.121.1	6	AY.32	2	AY.46.2	1
BA.1.17	206	AY.4.7	25	BA.1.12	6	AY.34.1	2	AY.4.16	1
BA.1.15	173	BA.1.1.14	25	AY.103	5	AY.88	2	AY.39.1.1	1
AY.68	159	AY.20	23	AY.43.8	5	AY.36.1	2	AY.83	1
AY.46	142	AY.7.1	22	BA.1.21.1	5	AY.4.17	2	AY.51	1
AY.112	140	AY.20.1	22	BA.2.12	5	AY.4.2.2	2	AY.45	1
AY.4.4	112	AY.36	22	B.1.1.1	4	AY.43.4	2	AY.118	1
AY.39	112	BA.1.1.18	20	C.36.3	4	BA.1.10	2	AY.4.2.4	1
BA.2.3	110	B.1.351	19	AY.78	4	BA.1.1.13	2	AY.127.1	1
AY.121	103	AY.34	19	AY.75	4	BA.1.1.17	2	BA.1.1.2	1
BA.1.20	102	BA.2.1	19	AY.25	4	BA.1.16	2	BA.1.1.7	1
BA.1.19	92	AY.124	18	AY.87	4	BA.2.19	2	BA.1.9	1
AY.26	81	AY.4.2	18	AY.102	4	B.1.177.32	1	BA.1.1.12	1
AY.4.13	76	BA.1.1.15	17	Q.1	3	B.1.1.192	1	BA.1.1.10	1
BA.2.10	72	AY.4.6	16	B.1.1.170	3	AY.71	1	BA.1.5	1
AY.4.2.3	66	BA.1.6	16	AY.7.2	3	C.38	1	BA.2.32	1