

Table S1. Sequencing details of *Mycobacterium abscessus* clinical isolates

Strain <sup>1</sup>	Length (bp) <sup>2</sup>	Contigs <sup>3</sup>	Coverage <sup>4</sup>	Status <sup>5</sup>	GenBank Accession <sup>6</sup>
GD01A	4901034	1	421	Complete	<a href="#">CP035923</a>
GD01B	4889373	1	180	Complete	<a href="#">CP035924</a>
GD02	5000184	27	402	WGS	<a href="#">JADLKQ000000000</a>
GD03	5010693	35	459	WGS	<a href="#">JADWWQ000000000</a>
GD04	5120596	43	547	WGS	<a href="#">JADWWR000000000</a>
GD05	5352395	1	88	Complete	<a href="#">CP065287</a>
GD08	5192767	52	81	WGS	<a href="#">JADWWS000000000</a>
GD09	5036145	76	52	WGS	<a href="#">JADWWT000000000</a>
GD10	5073834	92	92	WGS	<a href="#">JADLKR000000000</a>
GD11	5195782	50	64	WGS	<a href="#">JADWWU000000000</a>
GD12	5086633	52	98	WGS	<a href="#">JADWWV000000000</a>
GD13	5269564	55	72	WGS	<a href="#">JADWWW000000000</a>
GD14	5022135	44	88	WGS	<a href="#">JADWWX000000000</a>
GD15	5067256	48	55	WGS	<a href="#">JADWWY000000000</a>
GD16	5008827	56	126	WGS	<a href="#">JADWWZ000000000</a>
GD17	5107403	1	85	Complete	<a href="#">CP063165</a>
GD18	5002397	70	60	WGS	<a href="#">JADWXA000000000</a>
GD19	4915323	1	64	Complete	<a href="#">CP063328</a> , <a href="#">CP063329</a>
GD20	5026147	1	52	Complete	<a href="#">CP063327</a>
GD21	5218527	1	107	Complete	<a href="#">CP065284</a> , <a href="#">CP065285</a> , <a href="#">CP065286</a>
GD22	5073923	1	51	Complete	<a href="#">CP063324</a> , <a href="#">CP063325</a> , <a href="#">CP063326</a>
GD23	5093402	47	63	WGS	<a href="#">JADLKS000000000</a>
GD24	5162219	43	54	WGS	<a href="#">JADLKT000000000</a>
GD25	5112318	1	70	Complete	<a href="#">CP063320</a> , <a href="#">CP063321</a> , <a href="#">CP063322</a> , <a href="#">CP063323</a>
GD26	5098671	1	86	Complete	<a href="#">CP063319</a>
GD27	5067484	44	95	WGS	<a href="#">JADLKU000000000</a>
GD28	4812590	36	54	WGS	<a href="#">JADLKV000000000</a>
GD30	4980908	39	56	WGS	<a href="#">JADWXB000000000</a>
GD33	5144027	62	59	WGS	<a href="#">JADLKW000000000</a>
GD34	5373015	66	68	WGS	<a href="#">JADLKY000000000</a>
GD35	5051409	46	119	WGS	<a href="#">JADLKY000000000</a>
GD36	5430883	110	67	WGS	<a href="#">JADWXC000000000</a>
GD37	4755296	48	67	WGS	<a href="#">JADLX000000000</a>
GD38	5182416	1	66	Complete	<a href="#">CP063318</a>
GD39	5111964	52	71	WGS	<a href="#">JADWXD000000000</a>
GD40	5043795	44	115	WGS	<a href="#">JADWXE000000000</a>
GD41	5074858	1	75	Complete	<a href="#">CP065283</a>
GD42	5197760	1	54	Complete	<a href="#">CP065280</a> , <a href="#">CP065281</a> , <a href="#">CP065282</a>
GD43A	5377795	1	93	Complete	<a href="#">CP065279</a>
GD43B	5286951	1	88	Complete	<a href="#">CP065278</a>
GD44	4906511	23	82	WGS	<a href="#">JADWXF000000000</a>
GD45	5079188	46	99	WGS	<a href="#">JADLLA000000000</a>
GD47	5084415	45	98	WGS	<a href="#">JADWYG000000000</a>
GD51	5076192	51	59	WGS	<a href="#">JADWXH000000000</a>
GD52	5342162	64	68	WGS	<a href="#">JADLLB000000000</a>
GD53	5237166	39	73	WGS	<a href="#">CP065033</a>
GD54	5155522	1	125	Complete	<a href="#">CP065276</a> , <a href="#">CP065277</a>
GD55	4990177	44	72	WGS	<a href="#">JADWXI000000000</a>
GD56	5094848	56	86	WGS	<a href="#">JADWXJ000000000</a>
GD57	5120346	1	79	Complete	<a href="#">CP065275</a>
GD58	5136259	43	75	WGS	<a href="#">JADWXK000000000</a>
GD59	5073623	1	71	Complete	<a href="#">CP065274</a>
GD60	5178709	118	77	WGS	<a href="#">JADWXL000000000</a>
GD61	5090086	60	71	WGS	<a href="#">JADWXM000000000</a>
GD62	5369842	65	64	WGS	<a href="#">JADWXN000000000</a>
GD63	4733675	121	106	WGS	<a href="#">JADWXP000000000</a>
GD64	4862420	42	206	WGS	<a href="#">JADWXP000000000</a>
GD68A	5119772	1	92	Complete	<a href="#">CP065273</a>
GD68B	5119711	1	62	Complete	<a href="#">CP065272</a>
GD69A	5162653	1	77	Complete	<a href="#">CP065269</a> , <a href="#">CP065270</a> , <a href="#">CP065271</a>
GD69B	5174676	1	108	Complete	<a href="#">CP065266</a> , <a href="#">CP065267</a> , <a href="#">CP065268</a>
GD72	5132444	162	51	WGS	<a href="#">JADWXQ000000000</a>

GD75	5017220	101	44	WGS	<a href="#">JADWXR000000000</a>
GD79	4924989	52	47	WGS	<a href="#">JADLLC000000000</a>
GD81	5174487	53	86	WGS	<a href="#">JADWXS000000000</a>
GD82	4946210	40	78	WGS	<a href="#">JADWXT000000000</a>
GD84	5097571	53	55	WGS	<a href="#">JADWXU000000000</a>
GD85	4980587	84	65	WGS	<a href="#">JADWXV000000000</a>
GD86	5263250	51	92	WGS	<a href="#">JADWXW000000000</a>
GD87	5055936	136	71	WGS	<a href="#">JADWXX000000000</a>
GD88	4772874	70	50	WGS	<a href="#">JADWXY000000000</a>
GD89	5055865	48	103	WGS	<a href="#">JADWXZ000000000</a>
GD90	4822336	85	51	WGS	<a href="#">JADWYA000000000</a>
GD91	5312857	1	99	Complete	<a href="#">CP065265</a>
GD92	5022095	297	80	WGS	<a href="#">JADWYB000000000</a>
GD95	5140392	106	51	WGS	<a href="#">JADWYC000000000</a>
GD97	4753657	38	59	WGS	<a href="#">JADWYD000000000</a>
GD100A	5136515	1	134	Complete	<a href="#">CP065263</a> , <a href="#">CP065264</a>
GD100B	5136230	1	117	Complete	<a href="#">CP065183</a> , <a href="#">CP065184</a>
GD102	5261854	56	92	WGS	<a href="#">JADWYE000000000</a>
GD104	5099351	33	76	WGS	<a href="#">JADWYF000000000</a>
GD108	5075504	52	67	WGS	<a href="#">JADWYG000000000</a>
GD111	5112275	86	66	WGS	<a href="#">JADWYH000000000</a>

<sup>1</sup>Strains are given a GDXX designation; multiple isolates from the same patient are designated GDXXA, GDXXB, etc.

<sup>2</sup>For complete genomes, the length is the precise length of the bacterial chromosome. For WGS genomes, length is the sum of the lengths of all assembled contigs and therefore may be smaller or larger than the true genome size.

<sup>3</sup>For WGS genomes, the number of contigs obtained through sequencing and assembly with Unicycler.

<sup>4</sup>Genome coverage obtained through WGS sequencing for each strain.

<sup>5</sup>Genome sequencing with Illumina whole genome sequencing or Illumina and Nanopore to completion.

<sup>6</sup>Main chromosome accession numbers are provided first, followed, if applicable, by plasmid accession numbers.