

MDR-defining node	Lineage	Spolotype	Bootstrap value	# MDR strains descended from this node	# XDR strains descended from this node	Country	WHO MDR-TB Burden designation	UN Region	# Strains per dataset
33	LIN-4	T1	1	2	0	Romania	Not high	Eastern Europe	TB-ARC Romania 2
34	LIN-4	T1	1	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
35	LIN-4	T1	1	3	0	UK	Not high	Northern Europe	Walker et al.,2013 3
36	LIN-4	T3	1	2	0	Romania	Not high	Eastern Europe	TB-ARC Romania 2
37	LIN-4	T3	1	16	0	South Africa	High	Southern Africa	Cohen et al.,2015 8; TB-ARC MRC 8
38	LIN-4	S	0.961	4	1	Romania	Not high	Eastern Europe	TB-ARC Romania 4
39	LIN-4	H3	1	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
40	LIN-4	T1	1	3	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 3
41	LIN-4	T2	0.982	2	0	Uganda	Not high	Eastern Africa	TB-ARC CDRC 1; Clark et al.,2013 1
42	LIN-4	T2,T1,T2-uganda	0.98	2	0	Uganda	Not high	Eastern Africa	TB-ARC CDRC 1; Clark et al.,2013 1
43	LIN-4	T2	1	3	0	Uganda	Not high	Eastern Africa	TB-ARC CDRC 3
44	LIN-4	T1	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
45	LIN-4	S	1	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
46	LIN-4	S	0.983	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
47	LIN-4	S	0.971	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
48	LIN-4	S	1	3	0	South Africa	High	Southern Africa	Cohen et al.,2015 3
49	LIN-4	S	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
50	LIN-4	S	0.998	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
51	LIN-4	S	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2

52	LIN-4	S15	1	16	0	South Africa	High	Southern Africa	Cohen et al.,2015 9; TB-ARC MRC 7
53	LIN-4	LAM3,T1,H3	1	6	0	Uganda	Not high	Eastern Africa	TB-ARC CDRC 2; Clark et al.,2013 4
54	LIN-4	UNKNOWN	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
55	LIN-4	T2,T1	1	3	0	Iran	Not high	Southern Asia	TB-ARC Iran 3
56	LIN-4	LAM3	1	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
57	LIN-4	LAM3	1	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
58	LIN-4	LAM3	0.999	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
59	LIN-4	LAM3	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
60	LIN-4	T1	1	2	0	Iran	Not high	Southern Asia	TB-ARC Iran 2
61	LIN-4	LAM1	1	4	4	Portugal	Not high	Southern Europe	Perdigao et al.,2014 4
62	LIN-4	LAM1	0.976	4	2	Portugal	Not high	Southern Europe	Perdigao et al.,2014 4
63	LIN-4	LAM1	0.979	2	0	Portugal	Not high	Southern Europe	Perdigao et al.,2014 2
64	LIN-4	LAM9	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
65	LIN-4	LAM11-ZWE	1	10	0	Malawi	Not high	Eastern Africa	Guerra-Assuncao et al.,2014 10
66	LIN-4	LAM11-ZWE	0.885	2	0	Malawi	Not high	Eastern Africa	Guerra-Assuncao et al.,2014 2
67	LIN-4	LAM11-ZWE	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
68	LIN-4	LAM4	1	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 1; TB-ARC MRC 1
69	LIN-4	LAM11-ZWE	0.918	2	0	Uganda	Not high	Eastern Africa	TB-ARC CDRC 1; Clark et al.,2013 1
70	LIN-4	LAM4	0.967	11	6	Portugal	Not high	Southern Europe	Perdigao et al.,2014 11
71	LIN-4	LAM6	1	3	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 3
72	LIN-4	ATYPIC	1	3	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 3
73	LIN-4	LAM9	0.923	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
74	LIN-4	T5-RUS1;LAM9	0.991	2	1	Belarus	High	Eastern Europe	TB-ARC Belarus 2

75	LIN-4	LAM9	0.998	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
76	LIN-4	LAM9	0.995	3	0	Moldova	High	Eastern Europe	TB-ARC Moldova 3
77	LIN-4	T5-RUS1	1	2	0	Moldova	High	Eastern Europe	TB-ARC Moldova 2
78	LIN-4	T5-RUS1	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
79	LIN-4	LAM4	1	93	68	South Africa	High	Southern Africa	Cohen et al.,2015 82; TB-ARC MRC 11
80	LIN-4	LAM4	0.83	7	0	South Africa	High	Southern Africa	Cohen et al.,2015 7
81	LIN-4	LAM4	0.997	3	0	South Africa	High	Southern Africa	Cohen et al.,2015 3
82	LIN-4	LAM4	0.967	5	0	South Africa	High	Southern Africa	Cohen et al.,2015 5
83	LIN-4	LAM4	0.992	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
84	LIN-4	LAM4	0.99	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
85	LIN-4	LAM4	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
86	LIN-4	T3-ETH	1	8	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 8
87	LIN-4	T3-ETH	1	3	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 3
88	LIN-4	T3	1	8	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 8
89	LIN-4	H3	0.993	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
90	LIN-4	H3	0.978	29	0	Moldova	High	Eastern Europe	TB-ARC Moldova 29
91	LIN-4	H3	1	5	0	Romania	Not high	Eastern Europe	TB-ARC Romania 5
92	LIN-4	H3	1	2	1	Iran	Not high	Southern Asia	TB-ARC Iran 2
93	LIN-4	H3	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
94	LIN-4	H1	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
95	LIN-4	H1	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
96	LIN-4	H1	1	7	0	Russia	High	Eastern Europe	Casali et al.,2014 7

97	LIN-4	X2,T1	1	3	2	Belarus	High	Eastern Europe	TB-ARC Belarus 3
98	LIN-4	H1	1	2	0	Romania	Not high	Eastern Europe	TB-ARC Romania 2
99	LIN-4	H1	1	2	0	Romania	Not high	Eastern Europe	TB-ARC Romania 2
100	LIN-4	T1	1	4	0	South Africa	High	Southern Africa	Cohen et al.,2015 4
101	LIN-4	T1	0.993	3	0	Mali	Not high	West Africa	Winglee et al.,2015 3
102	LIN-4	T1	0.985	3	0	Mali	Not high	West Africa	Winglee et al.,2015 3
103	LIN-4	T1	1	2	0	Mali	Not high	West Africa	Winglee et al.,2015 2
104	LIN-4	T1	1	2	0	Mali	Not high	West Africa	Winglee et al.,2015 2
105	LIN-4	T1	0.998	2	0	Mali	Not high	West Africa	Winglee et al.,2015 2
106	LIN-4	X3	1	21	6	South Africa	High	Southern Africa	Cohen et al.,2015 10; TB-ARC MRC 11
107	LIN-4	X3	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
108	LIN-4	X3	1	2	1	South Africa	High	Southern Africa	Cohen et al.,2015 2
109	LIN-4	X2	0.93	3	0	South Africa	High	Southern Africa	TB-ARC MRC 3
110	LIN-4	X2	0.999	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
111	LIN-4	X2	1	5	0	South Africa	High	Southern Africa	Cohen et al.,2015 5
112	LIN-4	T2,X1	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
113	LIN-4	UNKNOWN	1	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
114	LIN-2	Beijing	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
115	LIN-2	Beijing	1	2	0	Russia	High	Eastern Europe	Merker et al.,2015 2
116	LIN-2	Beijing	0.981	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
117	LIN-2	Beijing	0.948	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
118	LIN-2	Beijing	1	5	5	Iran	Not high	Southern Asia	TB-ARC Iran 5

119	LIN-2	Beijing	0.884	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
120	LIN-2	Beijing	1	2	0	Moldova	High	Eastern Europe	TB-ARC Moldova 2
121	LIN-2	Beijing	1	4	0	Russia	High	Eastern Europe	Casali et al.,2014 4
122	LIN-2	Beijing	0.905	4	0	Russia	High	Eastern Europe	Casali et al.,2014 4
123	LIN-2	Beijing	1	3	3	Belarus	High	Eastern Europe	TB-ARC Belarus 3
124	LIN-2	Beijing	0.98	6	2	South Africa	High	Southern Africa	Cohen et al.,2015 4; TB-ARC MRC 2
125	LIN-2	Beijing	0.999	4	0	Russia	High	Eastern Europe	Casali et al.,2014 4
126	LIN-2	Beijing	0.996	4	0	Uzbekistan	High	Central Asia	Merker et al.,2015 4
127	LIN-2	Beijing	0.818	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
128	LIN-2	Beijing	0.996	7	0	Russia	High	Eastern Europe	Casali et al.,2014 7
129	LIN-2	Beijing	0.999	3	0	Russia	High	Eastern Europe	Casali et al.,2014 3
130	LIN-2	Beijing	0.999	3	0	Russia	High	Eastern Europe	Casali et al.,2014 3
131	LIN-2	Beijing	1	2	2	Russia	High	Eastern Europe	Casali et al.,2014 2
132	LIN-2	Beijing	1	2	2	Iran	Not high	Southern Asia	TB-ARC Iran 2
133	LIN-2	Beijing	0.994	2	2	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
134	LIN-2	Beijing	1	2	0	Belarus	High	Eastern Europe	TB-ARC Belarus 2
135	LIN-2	Beijing	0.992	3	0	Russia	High	Eastern Europe	Casali et al.,2014 3
136	LIN-2	Beijing;Atypical	1	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
137	LIN-2	Beijing	0.832	16	0	Russia	High	Eastern Europe	Casali et al.,2014 16
138	LIN-2	Beijing	1	4	1	Russia	High	Eastern Europe	Casali et al.,2014 4
139	LIN-2	Beijing	0.85	5	1	Moldova	High	Eastern Europe	TB-ARC Moldova 5
140	LIN-2	Beijing	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
141	LIN-2	Beijing	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2

142	LIN-2	Beijing	0.997	2	0	Moldova	High	Eastern Europe	TB-ARC Moldova 2
143	LIN-2	Beijing	0.96	2	0	Netherlands	Not high	Western Europe	Bryant et al.,2013 2
144	LIN-2	Beijing	1	4	0	Belarus	High	Eastern Europe	TB-ARC Belarus 4
145	LIN-2	Beijing	1	5	0	Russia	High	Eastern Europe	Casali et al.,2014 5
146	LIN-2	Beijing	0.897	5	0	Russia	High	Eastern Europe	Casali et al.,2014 5
147	LIN-2	Beijing	0.863	13	0	Russia	High	Eastern Europe	Casali et al.,2014 13
148	LIN-2	Beijing	1	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
149	LIN-2	Beijing	0.986	2	1	Uzbekistan	High	Central Asia	Merker et al.,2015 2
150	LIN-2	Beijing	0.987	2	0	Russia	High	Eastern Europe	Casali et al.,2014 2
151	LIN-2	Beijing	1	3	0	Russia	High	Eastern Europe	Casali et al.,2014 3
152	LIN-2	Beijing	1	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
153	LIN-2	Beijing	1	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
154	LIN-2	Beijing	1	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
155	LIN-2	Beijing	1	3	0	South Africa	High	Southern Africa	Cohen et al.,2015 1; TB-ARC MRC 2
156	LIN-2	Beijing	1	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
157	LIN-2	Beijing	1	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
158	LIN-2	Beijing	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
159	LIN-2	Beijing	1	2	1	South Africa	High	Southern Africa	TB-ARC MRC 2
160	LIN-2	Beijing	1	2	1	South Africa	High	Southern Africa	Cohen et al.,2015 2
161	LIN-2	Beijing	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
162	LIN-2	Beijing	1	2	0	India	High	Southern Asia	TB-ARC India 2
163	LIN-2	Beijing	0.999	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
164	LIN-2	Beijing	0.988	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2

165	LIN-2	Beijing	0.991	3	0	South Africa	High	Southern Africa	Cohen et al.,2015 3
166	LIN-2	Beijing	1	2	1	China	High	Eastern Asia	Zhang et al.,2013 2
167	LIN-2	Beijing	0.948	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
168	LIN-2	Beijing	0.999	2	0	South Africa	High	Southern Africa	Cohen et al.,2015 2
169	LIN-2	Beijing	0.978	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2
170	LIN-2	Beijing	1	3	0	South Korea	Not high	Eastern Asia	TB-ARC CDRC 3
171	LIN-2	Beijing	1	2	1	South Korea	Not high	Eastern Asia	TB-ARC CDRC 2
172	LIN-2	Beijing	0.922	3	0	China	High	Eastern Asia	Zhang et al.,2013 3
173	LIN-2	Beijing	1	3	3	China	High	Eastern Asia	Zhang et al.,2013 3
174	LIN-2	Beijing	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
175	LIN-2	Beijing	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
176	LIN-2	Beijing	0.863	3	3	Russia	High	Eastern Europe	Casali et al.,2014 3
177	LIN-2	Beijing;Atypical	0.992	2	0	Sweden	Not high	Northern Europe	TB-ARC Sweden 2
178	LIN-2	Beijing	1	4	0	South Korea	Not high	Eastern Asia	TB-ARC CDRC 4
179	LIN-2	Beijing	1	2	0	South Korea	Not high	Eastern Asia	TB-ARC CDRC 2
180	LIN-2	Beijing	1	2	2	South Korea	Not high	Eastern Asia	TB-ARC CDRC 2
181	LIN-2	Beijing	1	14	8	South Korea	Not high	Eastern Asia	TB-ARC CDRC 14
182	LIN-2	Beijing	1	2	1	South Korea	Not high	Eastern Asia	TB-ARC CDRC 2
183	LIN-2	Beijing	0.989	51	17	South Africa	High	Southern Africa	Cohen et al.,2015 6; TB-ARC MRC 45
184	LIN-2	Beijing	0.998	6	0	South Africa	High	Southern Africa	TB-ARC MRC 6
185	LIN-2	Beijing	1	4	4	South Korea	Not high	Eastern Asia	TB-ARC CDRC 4
186	LIN-2	Beijing	1	2	0	China	High	Eastern Asia	Zhang et al.,2013 2
187	LIN-3	CAS1-Kili	0.835	2	0	South Africa	High	Southern Africa	TB-ARC MRC 2

