

Strain	ST	STC	<i>gpsA</i>	<i>recA</i>	<i>purA</i>	<i>pta</i>	<i>prsA</i>	<i>alK</i>	<i>ldhA</i>	SpaA-N-term. group <sup>a</sup>	SpaA-C-term. repeats <sup>b</sup>	Year of isolation	Host	Country
ATCC 19414 <sup>T</sup>	9	9	1	1	1	1	1	1	1	I	9	1950	Pig	USA
IMT11437	3	-	2	4	3	2	2	2	2	III	9	2005	Chicken	G
IMT11438	9	9	1	1	1	1	1	1	1	I	9	2005	Chicken	G
IMT11439	37	-	6	1	1	2	1	4	1	I	9	2005	Chicken	G
IMT11441	9	9	1	1	1	1	1	1	1	I	9	2005	Chicken	G
IMT11442	3	-	2	4	3	2	2	2	2	III	9	2005	Chicken	G
IMT11443	5	-	2	4	4	2	2	2	3	II	9	2005	Chicken	G
IMT11444	11	9	1	1	1	1	1	1	3	IV	8	2005	Chicken	G
IMT11445	25	-	5	3	2	5	4	1	1	I	9	2005	Chicken	S
IMT13536	8	9	1	1	1	1	1	4	1	I	9	2007	Pig	G
IMT14192	27	-	2	5	3	2	2	2	3	II	9	2007	Chicken	G
IMT17113	26	9	1	4	1	1	1	5	1	I	9	1999	Chicken	G
IMT17115	31	9	1	1	1	1	1	1	6	I	9	1999	Chicken	G
IMT17117	10	-	1	1	6	2	2	2	2	I	9	2003	Chicken	G
IMT17119	5	-	2	4	4	2	2	2	3	II	9	2003	Chicken	G
IMT17120	38	-	2	5	10	2	4	5	3	III	9	2003	Chicken	G
IMT17121	5	-	2	4	4	2	2	2	3	II	8	2004	Chicken	G
IMT17122	9	9	1	1	1	1	1	1	1	I	9	2004	Chicken	G
IMT17123	9	9	1	1	1	1	1	1	1	I	9	2004	Chicken	G
IMT17124	39	-	2	5	3	2	2	5	2	II	9	2004	Chicken	G
IMT17125	7	9	1	3	1	1	1	1	1	I	9	2004	Chicken	G
IMT17129	6	-	2	2	2	2	2	2	2	II	9	2006	Chicken	DK
IMT17130	27	-	2	5	3	2	2	2	3	I	10	2006	Chicken	G
IMT17131	32	9	5	1	1	1	1	1	1	I	9	2006	Chicken	G
IMT17132	32	9	5	1	1	1	1	1	1	I	9	2001	Chicken	G
IMT17133	9	9	1	1	1	1	1	1	1	I	9	2007	Chicken	G
IMT17134	9	9	1	1	1	1	1	1	1	I	9	2007	Chicken	G
IMT17135	9	9	1	1	1	1	1	1	1	I	9	2007	Chicken	G
IMT17136	9	9	1	1	1	1	1	1	1	I	9	2007	Chicken	G
IMT17137	42	-	2	5	3	2	2	8	2	I	9	2008	Chicken	G
IMT17138	2	9	1	3	1	3	1	1	1	I	9	2007	Turkey	G
IMT17139	5	-	2	4	4	2	2	2	3	II	8	2008	Chicken	G
IMT17140	4	-	2	4	2	2	2	5	2	II	9	2007	Turkey	G
IMT17142	4	-	2	4	2	2	2	5	2	II	9	2007	Turkey	G
IMT17143	4	-	2	4	2	2	2	5	2	II	9	2007	Turkey	G
IMT17144	12	9	1	2	1	1	1	4	1	I	9	2007	Turkey	G

Strain	ST	STC	<i>gpsA</i>	<i>recA</i>	<i>purA</i>	<i>pta</i>	<i>prsA</i>	<i>alK</i>	<i>ldhA</i>	SpaA-N-term. group <sup>a</sup>	SpaA-C-term. repeats <sup>b</sup>	Year of isolation	Host	Country
IMT17146	45	9	1	3	1	1	1	1	1	I	9	2007	Turkey	G
IMT17147	12	9	1	2	1	1	1	4	1	I	9	2007	Turkey	G
IMT17148	4	-	2	4	2	2	2	5	2	II	9	2007	Turkey	G
IMT17149	13	-	2	4	2	2	4	6	2	III	9	2007	Turkey	G
IMT17152	33	-	2	1	3	2	1	1	2	II	9	2007	Turkey	G
IMT17154	14	-	3	2	1	1	1	3	1	I	9	2007	Turkey	G
IMT17155	2	9	1	3	1	3	1	1	1	I	9	2007	Turkey	G
IMT17157	15	-	2	4	7	2	4	6	2	III	9	2007	Turkey	G
IMT17160	2	9	1	3	1	3	1	1	1	I	9	2007	Turkey	G
IMT17161	28	-	2	5	6	2	2	2	2	III	9	2007	Turkey	G
IMT17162	13	-	2	4	2	2	4	6	2	III	9	2007	Turkey	G
IMT17164	4	-	2	4	2	2	2	5	2	II	9	2007	Turkey	G
IMT17166	29	9	1	6	1	1	1	4	1	I	9	2007	Turkey	A
IMT17168	9	9	1	1	1	1	1	1	1	I	9	2007	Turkey	A
IMT17170	3	-	2	4	3	2	2	2	2	III	8	2007	Turkey	A
IMT17852	6	-	2	2	2	2	2	2	2	III	9	2007	Chicken	DK
IMT17853	30	9	1	3	11	1	1	1	1	I	9	2007	Chicken	G
IMT17854	6	-	2	2	2	2	2	2	2	III	9	2007	Chicken	DK
IMT17855	9	9	1	1	1	1	1	1	1	I	9	2007	Chicken	G
IMT18127	43	9	1	1	1	1	3	1	1	I	9	2008	Chicken	G
IMT18128	9	9	1	1	1	1	1	1	1	I	9	2008	Chicken	G
IMT18129	4	-	2	4	2	2	2	5	2	II	10	2008	Chicken	G
IMT18130	4	-	2	4	2	2	2	5	2	II	9	2008	Chicken	G
IMT18232	48	-	2	2	2	2	5	1	2	V	9	2009	Pig	G
IMT18358	36	-	1	2	6	2	2	5	2	I	9	2005	Turkey	A
IMT18360	9	9	1	1	1	1	1	1	1	I	9	2008	Turkey	A
IMT18361	40	-	2	4	1	7	4	2	3	III	9	2008	Turkey	A
IMT18362	16	-	2	5	8	2	4	2	2	II	9	2008	Turkey	A
IMT18363	17	-	2	1	6	1	2	5	2	III	9	2008	Turkey	A
IMT18364	18	-	2	5	5	2	2	2	3	II	9	2008	Turkey	A
IMT18365	47	-	2	4	2	8	2	6	3	II	9	2008	Turkey	A
IMT18366	44	9	1	1	1	1	2	1	1	I	9	2008	Turkey	A
IMT19234	62	-	2	4	9	1	1	12	2	I	9	2009	Human	CH
IMT20382	49	-	2	2	14	2	2	2	8	III	9	2000s	Pig	EST
IMT20383	7	9	1	3	1	1	1	1	1	I	9	2000s	Pig	NA
IMT20384	9	9	1	1	1	1	1	1	1	I	11	2000s	Pig	G

Strain	ST	STC	<i>gpsA</i>	<i>recA</i>	<i>purA</i>	<i>pta</i>	<i>prsA</i>	<i>alK</i>	<i>ldhA</i>	SpaA-N-term. group <sup>a</sup>	SpaA-C-term. repeats <sup>b</sup>	Year of isolation	Host	Country
IMT20385	19	-	2	4	9	1	1	1	2	I	9	2000s	Pig	EST
IMT20386	34	-	2	2	6	2	2	5	2	III	9	2000s	Pig	NA
IMT20388	41	-	2	2	2	2	4	2	2	III	9	2000s	Pig	NA
IMT20389	48	-	2	2	2	2	5	1	2	III	9	2000s	Pig	NA
IMT20390	19	-	2	4	9	1	1	1	2	I	9	2000s	Pig	NA
IMT20391	48	-	2	2	2	2	5	1	2	III	9	2000s	Pig	NA
IMT20877	63	9	1	9	1	1	1	4	1	I	9	2010	Chicken	G
IMT22109	9	9	1	1	1	1	1	1	1	I	9	1989	Pig	G
IMT22110	8	9	1	1	1	1	1	4	1	I	9	1997	Pig	G
IMT22111	9	9	1	1	1	1	1	1	1	I	9	2000	Human	G
IMT22113	50	-	2	5	2	2	4	5	2	III	9	2007	Pig	G
IMT22114	51	-	1	2	2	1	4	10	10	III	9	2007	Mouflon	G
IMT22115	52	-	5	8	1	1	1	1	9	I	9	2007	Turkey	G
IMT22116	54	9	7	1	1	1	1	1	1	I	9	2008	Pig	G
IMT22118	43	9	1	1	1	1	3	1	1	I	9	2009	Pheasant	G
IMT23383	56	9	1	1	1	1	6	4	1	I	9	2002	Pig	G
IMT23384	54	9	7	1	1	1	1	1	1	I	9	2004	Pig	G
IMT23385	57	9	1	2	1	1	1	2	1	I	9	2001	Ape	G
IMT23386	40	-	2	4	1	7	4	2	3	III	9	2010	Turkey	G
IMT23431	40	-	2	4	1	7	4	2	3	III	9	2010	Turkey	G
IMT23636	55	-	2	2	3	2	4	2	3	III	9	2000s	Pig	G
IMT23637	55	-	2	2	3	2	4	2	3	III	9	2000s	Pig	G
IMT23638	48	-	2	2	2	2	5	1	2	V	9	2000s	Pig	G
IMT23639	7	9	1	3	1	1	1	1	1	I	9	2000s	Pig	G
IMT23640	55	-	2	2	3	2	4	2	3	III	9	2000s	Pig	G
IMT23641	19	-	2	4	9	1	1	1	2	I	9	2000s	Pig	USA
IMT23642	48	-	2	2	2	2	5	1	2	V	9	2000s	Pig	G
IMT23643	19	-	2	4	9	1	1	1	2	I	13	2000s	Pig	G
IMT23644	48	-	2	2	2	2	5	1	2	III	9	2000s	Pig	G
IMT23645	55	-	2	2	3	2	4	2	3	III	9	2000s	Pig	G
IMT23646	19	-	2	4	9	1	1	1	2	I	9	2000s	Pig	NA
IMT23647	49	-	2	2	14	2	2	2	8	III	9	2000s	Pig	G
IMT23660	48	-	2	2	2	2	5	1	2	V	9	2007	Pig	G
IMT23661	32	9	5	1	1	1	1	1	1	I	9	2004	Chicken	G
IMT23662	32	9	5	1	1	1	1	1	1	I	9	2004	Chicken	G
IMT23666	58	-	1	4	1	9	1	5	1	I	9	2005	Sheep	G

Strain	ST	STC	<i>gpsA</i>	<i>recA</i>	<i>purA</i>	<i>pta</i>	<i>prsA</i>	<i>alK</i>	<i>ldhA</i>	SpaA-N-term. group <sup>a</sup>	SpaA-C-term. repeats <sup>b</sup>	Year of isolation	Host	Country
IMT23667	39	-	2	5	3	2	2	5	2	II	9	2009	Sheep	G
IMT23668	59	-	2	1	3	2	4	4	2	III	9	2010	Duck	G
IMT23846	32	9	5	1	1	1	1	1	1	I	9	2006	Hare	G
IMT23848	61	-	2	5	2	2	2	11	2	III	9	2007	Pig	G
IMT23849	60	-	2	1	3	2	2	5	11	II	10	2009	Stork	G
IMT23851	40	-	2	4	1	7	4	2	3	III	9	2010	Turkey	G
IMT23888	5	-	2	4	4	2	2	2	3	II	9	2008	Pig	G
IMT23984	4	-	2	4	2	2	2	5	2	II	10	2010	Chicken	G
IMT24173	8	9	1	1	1	1	1	4	1	I	9	2010	Turkey	G
IMT24999	64	-	2	2	6	2	2	2	3	III	9	2010	Turkey	G
IMT25000	65	-	8	3	2	1	1	1	1	I	9	2010	Turkey	G
IMT25001	65	-	8	3	2	1	1	1	1	I	9	2011	Turkey	G
IMT25299	67	-	5	1	2	1	2	1	1	I	9	2011	Chicken	G
IMT25300	27	-	2	5	3	2	2	2	3	II	9	2011	Chicken	G
IMT25301	68	-	1	2	6	1	2	2	2	I	9	2010	Chicken	G
IMT25575	66	9	1	3	13	1	4	1	1	I	9	2011	Pig	G
IMT26577	47	-	2	4	2	8	2	6	3	II	9	2011	Turkey	G
IMT26588	69	-	5	2	6	1	1	4	1	I	9	2011	Pig	G
IMT27630	37	-	6	1	1	2	1	4	1	I	9	2011	Turkey	G
IMT27631	60	-	2	1	3	2	2	5	11	II	7	2011	Chicken	G
IMT27632	7	9	1	3	1	1	1	1	1	I	9	2011	Chicken	G
IMT28342	70	-	9	3	3	2	2	13	2	II	9	2011	Duck	G
IMT28355	7	9	1	3	1	1	1	1	1	I	9	2011	Black-headed Gonolek	G
IMT28564	72	-	2	4	3	2	4	2	2	III	9	2011	Turkey	G
IMT28565	4	-	2	4	2	2	2	5	2	II	10	2011	Turkey	G
IMT28566	71	9	1	1	1	1	1	2	1	I	10	2011	Turkey	G
IMT28568	71	9	1	1	1	1	1	2	1	I	10	2012	Turkey	G
IMT4530	35	-	1	7	12	6	1	5	7	III	9	2000	Chicken	G
IMT4544	7	9	1	3	1	1	1	1	1	I	8	1999	Parrot	G
IMT4996	20	-	2	4	4	2	2	2	5	II	8	2000	Chicken	G
IMT6233	5	-	2	4	4	2	2	2	3	II	9	2001	Chicken	G
IMT6234	5	-	2	4	4	2	2	2	3	II	9	2001	Chicken	G
IMT6235	1	-	1	3	1	1	1	4	4	I	9	2002	Chicken	G
IMT6236	4	-	2	4	2	2	2	5	2	II	9	2002	Chicken	G
IMT6237	1	-	1	3	1	1	1	4	4	I	9	2002	Chicken	G
IMT6238	3	-	2	4	3	2	2	2	2	III	9	2002	Chicken	G

Strain	ST	STC	<i>gpsA</i>	<i>recA</i>	<i>purA</i>	<i>pta</i>	<i>prsA</i>	<i>alK</i>	<i>ldhA</i>	SpaA-N-term. group <sup>a</sup>	SpaA-C-term. repeats <sup>b</sup>	Year of isolation	Host	Country
IMT6241	20	-	2	4	4	2	2	2	5	II	8	2000	Chicken	G
IMT6242	53	-	6	2	1	1	1	9	1	I	9	2000	Chicken	G
IMT6243	5	-	2	4	4	2	2	2	3	II	9	2002	Chicken	G
IMT6244	21	9	1	1	1	1	1	7	1	I	9	2001	Turkey	G
IMT6245	3	-	2	4	3	2	2	2	2	III	9	2002	Chicken	S
IMT6247	22	-	3	2	1	4	1	3	1	I	9	2001	Chicken	S
IMT6248	36	-	1	2	6	2	2	5	2	I	9	2001	Chicken	G
IMT6250	5	-	2	4	4	2	2	2	3	II	9	1998	Chicken	G
IMT6251	4	-	2	4	2	2	2	5	2	II	9	1999	Chicken	G
IMT6252	2	9	1	3	1	3	1	1	1	I	9	1999	Chicken	G
IMT6253	5	-	2	4	4	2	2	2	3	II	9	1999	Chicken	G
IMT6254	26	9	1	4	1	1	1	5	1	I	9	1999	Chicken	G
IMT6742	23	9	1	1	1	1	3	4	1	I	9	2003	Pig	G
IMT8704	10	-	1	1	6	2	2	2	2	I	9	2003	Chicken	G
IMT8705	46	9	1	3	13	1	1	1	1	I	9	2003	Chicken	G
IMT8948	10	-	1	1	6	2	2	2	2	I	9	2003	Chicken	G
IMT8949	3	-	2	4	3	2	2	2	2	III	9	2003	Chicken	G
IMT9137	9	9	1	1	1	1	1	1	1	I	9	2004	Human	G
IMT9209	9	9	1	1	1	1	1	1	1	I	9	2004	Sheep	G
IMT9825	24	-	4	2	6	2	2	2	2	I	9	2004	Chicken	G
IMT9827	10	-	1	1	6	2	2	2	2	I	9	2003	Chicken	G

A = Austria, CH = Switzerland, G = Germany, DK = Denmark, EST = Republic of Estonia, S = Sweden, USA = United States of America; NA = not applicable.

<sup>a</sup> Groups I-V refer to the amino acid substitutions in the N-terminal region of the SpaA protein as given in Table 4 of the main manuscript.

<sup>b</sup> The numbers refer to the number of 20-amino acid repeats in the C-terminal tandem repeat region of the SpaA protein.