TABLE S1 Sampling pattern in ham production plants

ID	Description	Surface	Surface Category	Department
1	Cart	C	Equipment	Shipment
2	Container	C	Equipment	Shipment
3	Stainless steel table (handling)	C	Equipment	Shipment
4	Teflon table (handling)	C	Equipment	Shipment
5	Scale	C	Equipment	Shipment
6	Glove	C	Operator	Shipment
7	Boots/shoe covers	NC	Operator	Shipment
8	Roller conveyor	NC	Equipment	Shipment
9	Drain	NC	Floor and drainage	Washing
10	Basin	C	Equipment	Salting
11	Scraper scoop	C	Equipment	Salting
12	Stainless steel glove	C	Operator	Salting
13	Apron	C	Operator	Salting
14	Massager	C	Equipment	Salting
15	Handle	NC	Equipment	Salting
16	Drain	NC	Floor and drainage	Salting
17	Floor	NC	Floor and drainage	Salting
19	Storage room	NC	Equipment	Salting
20	Wet salter conveyor	NC	Equipment	Salting
21	Teflon table (handling/packaging)	C	Equipment	Washing
22	Dashboard	NC	Equipment	Washing

TABLE S2 Sampling pattern in post-production processing plants

ID	Description	Surface	Surface Category	Department
1	Basin	C	Equipment	Receipt
2	Container	C	Equipment	Processing
3	Dashboard	NC	Equipment	Processing
4	Stainless steel table (handling)	C	Equipment	Processing
5	Teflon table (handling)	C	Equipment	Processing
7	Container[$]	C	Equipment	Processing
8	Drain	NC	Floor and drainage	Receipt
9	Floor under roller conveyor	NC	Floor and drainage	Processing
10	Drain	NC	Floor and drainage	Processing
11	Floor	NC	Floor and drainage	Receipt
12	Stainless steel glove	C	Operator	Processing
13	Glove	C	Operator	Processing
14	Apron	C	Operator	Processing
15	Boots/shoe covers	NC	Operator	Processing
16	De-boning/Gouging machine[#]	C	Equipment	Processing
17	Slicing machine[$]	C	Equipment	Processing
18	Roller conveyor	NC	Equipment	Processing
19	Ham washer	NC	Equipment	Processing

[$] Present in slicing plants only

[#] Present in de-boning plants only

TABLE S3 Accession numbers and statistics of whole genome sequences generated in the study

Study ID	BioSample ID	Contig Accession Number	Coverage	Large contig[a]	Total size of contigs (bp)
LM1	ERS762129	CWKV01000001-CWKV01000052	135,09	52	3000380
LM2	ERS762130	CWKZ01000001-CWKZ01000116	156,06	116	3050975
LM3	ERS762131	CWLX01000001-CWLX01000153	141,58	153	3042612
LM4	ERS762132	CWMG01000001-CWMG01000122	115,78	122	3057832
LM5	ERS762133	CWLK01000001-CWLK01000060	81,06	60	3032402
LM6	ERS762134	CWLU01000001-CWLU01000115	189,68	115	3012433
LM7	ERS762135	CWME01000001-CWME01000117	142,99	117	3051611
LM8	ERS762136	CWKP01000001-CWKP01000115	300,2	115	3133872
LM9	ERS762137	CWLT01000001-CWLT01000047	99,02	47	3074656
LM10	ERS762138	CWLP01000001-CWLP01000056	168,26	56	3030389
LM11	ERS762139	CWKQ01000001-CWKQ01000033	145,54	33	2997187
LM12	ERS762140	CWLB01000001-CWLB01000143	208,3	143	3074170
LM13	ERS762141	CWLW01000001-CWLW01000085	126,67	85	2974013
LM14	ERS762142	CWKY01000001-CWKY01000061	127,76	61	2981537
LM15	ERS762143	CWLS01000001-CWLS01000174	175,14	174	3137838
LM16	ERS762144	CWKU01000001-CWKU01000173	188,31	173	3036358
LM17	ERS762145	CWKW01000001-CWKW01000112	155,3	112	3127403
LM18	ERS762146	CWMD01000001-CWMD01000154	129,64	154	3114435
LM19	ERS762147	CWMB01000001-CWMB01000102	152,71	102	3112206
LM20	ERS762148	CWLY01000001-CWLY01000075	222,74	75	3134645
LM21	ERS762149	CWKT01000001-CWKT01000076	162,46	76	3022856
LM22	ERS762150	CWLI01000001-CWLI01000112	125,33	112	3059840
LM23	ERS762151	CWLE01000001-CWLE01000131	158,25	131	3156776
LM24	ERS762152	CWLH01000001-CWLH01000173	153,73	173	3259265
LM25	ERS762153	CWLV01000001-CWLV01000132	231,5	132	3149496
LM26	ERS762154	CWLO01000001-CWLO01000105	186,02	105	3084148
LM27	ERS762155	CWMI01000001-CWMI01000066	230,46	66	3049048
LM28	ERS762156	CWMC01000001-CWMC01000075	205,52	75	3153742

LM29	ERS762157	CWLL01000001-CWLL01000053	163,94	53	3133347
LM30	ERS762158	CWMA01000001-CWMA01000202	175,21	202	3184538
LM31	ERS762159	CWMJ01000001-CWMJ01000274	161,14	274	3216898
LM32	ERS762160	CWKM01000001-CWKM01000056	209,69	56	3137912
LM33	ERS762161	CWLR01000001-CWLR01000052	164,89	52	3070496
LM34	ERS762162	CWLD01000001-CWLD01000066	149,31	66	3117989
LM35	ERS762163	CWLJ01000001-CWLJ01000086	151,47	86	3032388
LM36	ERS762164	CWKN01000001-CWKN01000043	180,93	43	2995455
LM37	ERS762165	CWMF01000001-CWMF01000079	161,54	79	3149478
LM38	ERS762166	CWKS01000001-CWKS01000057	276,14	57	3044113
LM39	ERS762167	CWKX01000001-CWKX01000081	243,4	81	3164276
LM40	ERS762168	CWLA01000001-CWLA01000069	166,51	69	3043550
LM41	ERS762169	CWLQ01000001-CWLQ01000068	191,02	68	3079775
LM42	ERS762170	CWLG01000001-CWLG01000031	140,64	31	3016198
LM43	ERS762171	CWKR01000001-CWKR01000080	94,02	80	3046868
LM44	ERS762172	CWMH01000001-CWMH01000050	164,75	50	3059781
LM45	ERS762173	CWLN01000001-CWLN01000032	117,72	32	3025727
LM46	ERS762174	CWLF01000001-CWLF01000062	165,1	62	3063204
LM47	ERS762175	CWKO01000001-CWKO01000098	125,37	98	3036659
LM48	ERS762176	CWLM01000001-CWLM01000093	190	93	3102890
LM49	ERS762177	CWLC01000001-CWLC01000049	196,55	49	3091729
LM50	ERS762178	CWMK01000001-CWMK01000247	144,1	247	3120646
LM51	ERS762179	CWMM01000001-CWMM01000277	117,02	277	3093071
LM53	ERS762181	CWMN01000001-CWMN01000287	181,29	287	3084962
LM56	ERS762184	CWMP01000001-CWMP01000300	120,23	300	3071098
LM58	ERS762186	CWMS01000001-CWMS01000173	189,52	173	3060480
LM59	ERS762187	CWMT01000001-CWMT01000295	164,32	295	3137346
LM60	ERS762188	CWMW01000001-CWMW01000402	154,23	402	3236153
LM61	ERS762189	CWMU01000001-CWMU01000166	168,52	166	3025645
LM63	ERS762191	CWMY01000001-CWMY01000328	154,33	328	3057069
LM64	ERS762192	CWMQ01000001-CWMQ01000197	170,33	197	3090863

LM65	ERS762193	CWMV01000001-CWMV01000143	153,65	143	3093004
LM66	ERS762194	CWNE01000001-CWNE01000217	158,34	213	3113119
LM67	ERS762195	CWNF01000001-CWNF01000334	187,63	334	3182476
LM68	ERS762196	CWMZ01000001-CWMZ01000157	162,18	157	3042254
LM69	ERS762197	CWNB01000001-CWNB01000175	169,69	175	3065208
LM70	ERS762198	CWNH01000001-CWNH01000411	136,59	411	3167720
LM71	ERS762199	CWND01000001-CWND01000201	178,82	201	3115096
LM72	ERS762200	CWNI01000001-CWNI01000367	202,18	367	3153823
LM73	ERS762201	CWNA01000001-CWNA01000142	177,81	142	3061558
LM74	ERS762202	CWNG01000001-CWNG01000399	157,68	399	3182521

[a]Large contigs size is >1000 bp

TABLE S4 Source and typing details of isolates considered for phylogenetic analysis

Study ID	Year	Plant ID	PFGE[a]	Lineage	Sequence Type
LM1	2012	A	AS28_AP13	II	14
LM2	2012	B	AS09_AP15	II	9
LM3	2012	B	AS09_AP15	II	9
LM4	2012	C	AS25_AP51	II	121
LM5	2012	D	AS45_AP11	I	3
LM6	2012	E	AS09_AP15	II	9
LM7	2012	F	AS09_AP15	II	9
LM8	2012	G	AS09_AP15	II	9
LM9	2012	G	AS09_AP15	II	9
LM10	2012	F	AS09_AP15	II	9
LM11	2012	F	AS28_AP13	II	14
LM12	2012	F	AS28_AP13	II	14
LM13	2012	H	AS09_AP15	II	9
LM14	2012	I	AS09_AP50	II	9
LM15	2012	I	AS09_AP15	II	9
LM16	2012	J	AS09_AP15	II	9
LM17	2013	K	AS23_AP09	II	121
LM18	2013	K	AS23_AP09	II	121
LM19	2013	K	AS23_AP09	II	121
LM20	2013	K	AS74_AP09	II	121
LM21	2012	L	AS09_AP15	II	9
LM22	2012	L	AS09_AP15	II	9
LM23	2012	M	AS23_AP09	II	121
LM24	2012	M	AS23_AP02	II	121
LM25	2012	N	AS23_AP09	II	121
LM26	2012	N	AS57_AP42	I	2
LM27	2012	N	AS57_AP05	I	2
LM28	2012	O	AS57_AP04	I	2
LM29	2012	O	AS57_AP04	I	2
LM30	2012	P	AS23_AP10	II	121
LM31	2012	P	AS23_AP10	II	121
LM32	2012	D	AS23_AP01	II	121
LM33	2012	D	AS44_AP16	I	3
LM34	2012	D	AS23_AP10_	II	121
LM35	2012	D	AS09_AP15	II	9
LM36	2012	D	AS45_AP16	I	3
LM37	2012	D	AS23_AP01	II	121
LM38	2012	D	AS09_AP15	II	9
LM39	2012	D	AS23_AP01	II	121
LM40	2012	D	AS44_AP16	I	3

LM41	2012	D	AS44_AP16	I	3
LM42	2012	D	AS09_AP15	II	9
LM43	2012	Q	AS09_AP15	II	9
LM44	2012	Q	AS09_AP15	II	9
LM45	2012	Q	AS09_AP15	II	9
LM46	2012	Q	AS09_AP15	II	9
LM47	2012	Q	AS57_AP07	I	2
LM48	2012	R	AS44_AP19	I	3
LM49	2012	R	AS44_AP19	I	3
LM50	2012	S[b]	AS44_AP16	I	3
LM51	2013	S[b]	AS43_AP06	I	3
LM53	2014	T[b]	AS09_AP15	II	9
LM56	2014	T[b]	AS31_AP14	II	101
LM58	2014	T[b]	AS31_AP14	II	101
LM59	2014	T[b]	AS09_AP15	II	9
LM60	2014	T[b]	AS09_AP15	II	9
LM61	2014	T[b]	AS09_AP15	II	9
LM63	2014	U[b]	AS28_AP13	II	14
LM64	2014	U[b]	AS25_AP08	II	121
LM65	2014	U[b]	AS25_AP08	II	121
LM66	2012	Z[b]	AS05_AP17	II	8
LM67	2011	V[b]	AS05_AP17	II	8
LM68	2011	V[b]	AS05_AP17	II	8
LM69	2011	V[b]	AS05_AP17	II	8
LM70	2013	Z[b]	AS05_AP17	II	8
LM71	2013	Z[b]	AS05_AP17	II	8
LM72	2013	S[b]	AS44_AP16	I	3
LM73	2013	S[b]	AS44_AP16	I	3
LM74	2013	S[b]	AS31_AP14	II	101

[a]PFGE Genotype was determined with AscI (AS) and ApaI enzymes (AP).

[b]Case plant

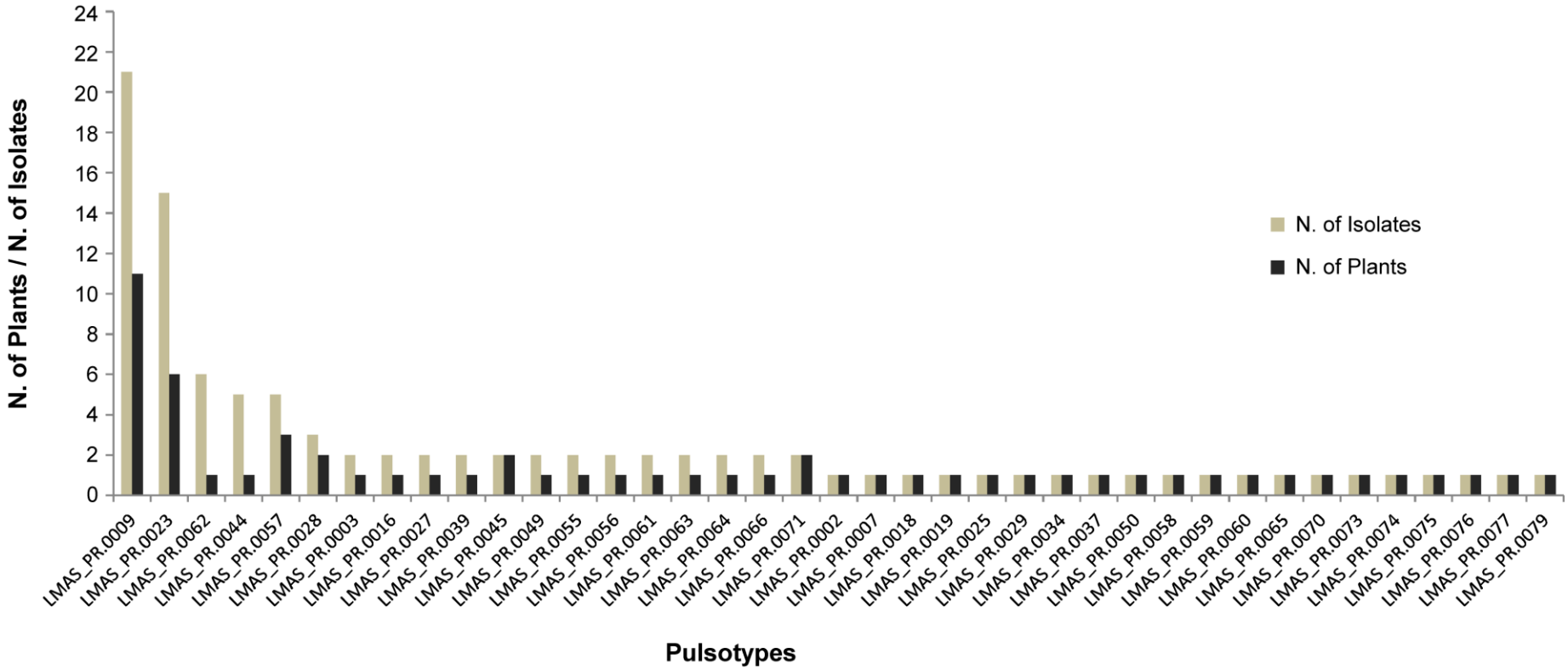

FIG S1 Distribution among the surveyed plants of the 39 *AscI*-PFGE types identified in the isolates of the study surveys