

Table S1. MLST and SLST data for *P. acnes* isolates from WGS projects and previously published studies

Isolate ^a	Region	Source	Phylogroup	MLST ₈ scheme ^g			SLST type ^h
				Allelic profile	ST	CC	
NCTC737 ^b	UK	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL072PA2	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A6
HL072PA1	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A6
J165	USA	Skin	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL013PA2	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL087PA2	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL063PA1	USA	Skin	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL027PA2	USA	Skin	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL002PA3	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A2
HL002PA2	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A2
HL046PA2	USA	Acne	IA ₁	1-1-1-3-1-1-1-1	1	1	A2
HL036PA3	USA	Skin	IA ₁	1-1-1-3-1-1-1-1	1	1	A2
HL036PA2	USA	Skin	IA ₁	1-1-1-3-1-1-1-1	1	1	A2
HL036PA1	USA	Skin	IA ₁	1-1-1-3-1-1-1-1	1	1	A2
5U42AFAA ^c	Canada	ND	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
KPL2003 ^c	USA	ND	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
DSM1897	USA	ND	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
15.2.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
27.1.R1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
32.1.L2	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
37.1.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
43.1.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
44.1.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
46.1.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
48.1.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
49.1.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-1-1	1	1	A1
HL096PA3	USA	Skin	IA ₁	1-1-1-3-1-1-3-1	8	1	A1

HL020PA1	USA	Acne	IA ₁	1-1-1-3-1-1-4-1	9	1	A1
HL005PA2	USA	Skin	IA ₁	1-1-10-3-1-1-6-1	15	1	A1
HL005PA3	USA	Skin	IA ₁	1-1-10-3-1-1-1-1	16	1	A1
266	Germany	Pulmonary	IA ₁	5-1-1-3-1-1-1-1	20	1	A1
12.1.L1	Denmark	[20]	IA ₁	5-1-1-3-1-1-1-1	20	1	A1
HL099PA1	USA	Acne	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL056PA1	USA	Skin	IA ₁	1-1-1-3-1-1-2-2	3	3	C2
HL096PA2	USA	Skin	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL053PA1	USA	Acne	IA ₁	1-1-1-3-1-1-2-2	3	3	C2
HL074PA1	USA	Skin	IA ₁	1-1-1-3-1-1-2-2	3	3	C2
HL007PA1	USA	Skin	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL043PA1	USA	Acne	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL043PA2	USA	Acne	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL083PA1	USA	Acne	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL096PA1	USA	Acne	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
15.1.R1	Denmark	[20]	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
KPL2009 ^c	USA	ND	IA ₁	1-1-1-3-1-1-2-2	3	3	C1
HL005PA1	USA	Skin	IA ₁	1-1-1-3-1-1-5-2	11	3	C2
HL038PA1	USA	Acne	IA ₁	1-1-1-3-1-1-2-4	10	3	C1
HL078PA1	USA	Skin	IA ₁	1-1-1-3-1-14-2-3	14	3	B1
HL045PA1	USA	Acne	IA ₁	1-10-1-3-1-1-2-2	17	3	C2
SK137	USA	Skin	IA ₁	8-1-1-3-1-1-2-5	18	3	C1
FZ1/2/0	Hungary	Skin	IA ₁	1-1-1-3-1-1-2-3	31	3	B1
C1	Japan	Sarcoidosis	IA ₁	1-1-1-3-1-1-22-2	115	3	A5
KPL1854 ^c	USA	ND	IA ₁	1-1-1-3-1-17-2-2	120	3	C3
SK182	USA	Skin	IA ₁	1-13-1-3-1-1-2-5	29	S	C1
HL025PA1	USA	Skin	IA ₁	1-1-1-3-1-1-8-6	4	4	D1
HL086PA1	USA	Skin	IA ₁	1-1-1-3-1-1-8-6	4	4	E4
HL092PA1	USA	Acne	IA ₁	1-1-1-3-1-1-8-6	4	4	E1
HL110PA1	USA	Acne	IA ₁	1-1-1-3-1-1-8-6	4	4	E1
HL053PA2	USA	Acne	IA ₁	1-1-1-3-1-1-8-6	4	4	E1

30.2.L1	Denmark	[20]	IA ₁	1-1-1-3-1-1-8-6	4	4	D1
MB3007 ^c	USA	ND	IA ₁	1-1-1-3-1-1-8-6	4	4	D1
HL082PA1	USA	Acne	IA ₁	1-1-1-3-1-1-7-6	13	4	E5
HL110PA2	USA	Acne	IA ₁	1-1-1-1-1-1-8-6	21	4	E3
409-HCl ^c	USA	ND	IA ₁	1-1-1-3-1-1-8-37	117	4	D1
CC003-HC2 ^c	USA	ND	IA ₁	1-1-1-3-1-1-8-37	117	4	D1
SK187	USA	Skin	IA ₁	16-1-1-15-1-4-8-6	19	S	E2
HL037PA1	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F4
HL025PA2	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F4
HL059PA2	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL059PA1	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL005PA4	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL002PA1	USA	Acne	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL027PA1	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL083PA2	USA	Acne	IA ₂	1-1-1-5-1-4-8-2	2	2	F3
HL046PA1	USA	Acne	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL013PA1	USA	Acne	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL050PA3	USA	Skin	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL087PA1	USA	Acne	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL087PA3	USA	Acne	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
P.acn33	France	Endophthalmitis	IA ₂	1-1-1-5-1-4-8-2	2	2	F1
HL067PA1	USA	Acne	IA ₂	1-1-1-5-1-4-8-9	24	2	F2
P.acn31	France	Endophthalmitis	IA ₂	1-1-1-13-1-4-8-2	36	2	F4
HL030PA2	USA	Skin	IA ₂	1-1-1-5-3-5-8-7	22	S	F4
20.2.L1	Denmark	[20]	IA ₂	1-1-1-5-3-5-8-7	22	S	F4
P.acn17	France	Keratitis	IA ₂	1-1-1-5-3-5-8-7	22	S	F5
HL063PA2	USA	Skin	IA ₂	1-18-1-5-3-5-8-8	23	S	F4
25.1.R1	Denmark	[20]	A ₂	1-1-1-18-1-4-8-2	57	2	F1
HL050PA1	USA	Skin	IA ₂	1-1-1-5-1-4-9-2	91	2	F1
HL030PA1	USA	Acne	IB	1-1-1-4-1-4-8-6	5	5	H1
KPA171202 ^d	Germany	Contaminant	IB	1-1-1-4-1-4-8-6	5	5	H2

6609	Hungary	Skin	IB	1-1-1-4-1-4-8-6	5	5	H1
CCUG32901 ^e	Sweden	Blood	IB	1-1-1-4-1-4-8-6	5	5	H1
434-HC2 ^c	USA	ND	IB	1-1-1-4-1-4-8-6	5	5	H1
KPL2008 ^c	USA	ND	IB	1-1-1-4-1-4-8-6	5	5	H1
21.1.L1	Denmark	[20]	IB	1-1-12-4-1-4-8-6	56	5	H1
P6	Germany	Prostate	IB	1-1-1-4-1-4-29-6	118	5	H1
PA2	USA	Prostate	IB	1-1-13-4-1-4-8-6	119	5	H1
HL097PA1	USA	Acne	IC	9-1-4-8-6-8-14-14	70	107	G1
PRP-38	UK	Acne	IC	9-1-4-8-6-8-14-14	70	107	G1
PV66	UK	Acne	IC	9-1-5-8-6-8-14-6	85	107	G1
5-1-3	France	Acne	IC	9-1-4-8-6-8-14-6	107	107	G1
HL082PA2	USA	Acne	II	17-4-2-4-2-3-10-10	6	6	K6
HL060PA1	USA	Acne	II	17-4-2-4-2-3-10-10	6	6	K1
HL042PA3	USA	Acne	II	17-4-2-4-2-3-10-10	7	6	K2
HL110PA3	USA	Acne	II	15-4-2-4-2-3-10-10	7	6	K2
HL110PA4	USA	Acne	II	15-4-2-4-2-3-10-10	7	6	K2
HL103PA1	USA	Acne	II	17-9-2-4-2-3-10-10	25	6	K1
HL050PA2	USA	Skin	II	17-4-2-17-2-3-11-11	26	S	K4
J139	USA	Skin	II	17-4-2-16-2-12-10-12	28	72	K8
HL001PA1	USA	Skin	II	17-4-2-4-2-6-10-12	30	72	K1
ATCC11828 ^f	USA	Abscess	II	17-4-2-4-9-12-10-13	27	S	K9
KPL1847 ^c	USA	ND	II	17-4-2-4-2-3-11-11	121	6	K4
KPL1849 ^c	USA	ND	II	17-4-2-4-2-3-11-11	121	6	K4
PMH5	Denmark	[52]	III	7-6-3-7-5-9-13-16	33	77	L1
PMH7	Denmark	[52]	III	7-6-3-7-5-9-13-16	33	77	L1
Asn12	UK	Spinal disc	III	7-6-3-7-5-9-13-16	33	77	L1
Asn10	UK	Prosthetic hip joint	III	7-6-7-7-5-9-12-16	81	77	L4

^aIsolates comprising the HMP and other WGS projects listed at <http://www.ncbi.nlm.nih.gov/genome/genomes/1140>

^bType strain purchased from the National Collection of Type Cultures (Colindale, UK)

^cHMP isolates classified as novel *Propionibacterium* spp, but clearly *P. acnes* based on MLST analysis

^dStrain purchased from the German Collection of Microorganisms and Cell Cultures (DSMZ; Braunschweig, Germany)

^eStrain from Culture Collection, University of Göteborg

^fStrain purchased from American Type Culture Collection

^gAllelic profiles and STs assigned using database at <http://pubmlst.org/pacnes/>

^hSLST types assigned using database at <http://medbac.dk/slst/pacnes>