

Supplementary material

Table S1. Strains included in the study, genome characteristics, accession numbers of their genomes and groupings in the ANIb and GGDC analyses.

Table S2. Major protein profiles of *P. monteilii* DSM 14164^T, *P. mosselii* DSM 17497^T, *P. plecoglossicida* DSM 15088^T, *P. taiwanensis* DSM 21245^T and *P. vranovensis* DSM16006^T (m/z: mass to charge ratio; + and -: presence or absence of the corresponding protein).

Figure S1. Dendrogram based on the comparison with the Biotyper program of the major proteins detected. The profiles of closely related type strains present in the Biotyper database are also included as a control and are labeled with an asterisk. Distances generated are arbitrary.

Supplementary Table S1. Strains included in the study, genome characteristics, accession numbers of their genomes and groupings in the ANIb and GGDC analyses. Type strains are indicated in bold.

Species	Strain	Genome accession number	Size	Contigs	GC [%]	Genomic Group (ANIb)	Genomic Group (GGDC)
<i>Pseudomonas alkylphenolica</i>	KL28^T	CP009048	5764622	1	60,6	35	36
<i>Pseudomonas cremoricolorata</i>	DSM 17059^T	AUEA01	4655082	26	63,5	29	29
<i>Pseudomonas donghuensis</i>	HYS^T	AJJP01	5639475	231	62,4	33	34
<i>Pseudomonas entomophila</i>	L48^T	CT573326	5888780	1	64,2	25	2
<i>Pseudomonas fulva</i>	NBRC 16637^T	BBIQ01	4768229	46	61,8	6	27
<i>Pseudomonas fulva</i>	DSM 17717^T	JHYU01	4770636	48	61,7	6	27
<i>Pseudomonas guariconensis</i>	LMG 27394^T	FMYX01	5079034	29	62,6	27	5
<i>Pseudomonas japonica</i>	NBRC 103040^T	BBIR01	6663130	162	64,2	31	30
<i>Pseudomonas japonica</i>	DSM22348^T	2700988710*	6718608	61	64,1	31	30
<i>Pseudomonas monteilii</i>	DSM 14164^T	JHYV01	6308713	85	61,5	11	15
<i>Pseudomonas monteilii</i>	GTC 10897	BCAO01	5547282	149	60,4	16	26
<i>Pseudomonas monteilii</i>	GTC 10899	BCAP01	5876827	112	62	28	6
<i>Pseudomonas monteilii</i>	IOFA19	JENF01	5725190	126	61,3	8	23
<i>Pseudomonas monteilii</i>	NBRC 103158^T	BBIS01	6299985	132	61,5	11	15
<i>Pseudomonas monteilii</i>	SB3078	CP006978	6000087	1	62,5	12	19
<i>Pseudomonas monteilii</i>	SB3101	CP006979	5945120	1	62,5	12	19
<i>Pseudomonas mosselii</i>	DSM 17497^T	JHYW01	6260844	55	64	23	3
<i>Pseudomonas oryzihabitans</i>	NBRC 102199^T	BBIT01	5027590	34	66,2	outgroup	
<i>Pseudomonas parafulva</i>	NBRC 16636^T	BBIU01	4954362	55	62,5	21	25
<i>Pseudomonas parafulva</i>	DSM 17004^T	AUEB01	4956622	32	62,4	21	25
<i>Pseudomonas plecoglossicida</i>	DSM 15088^T	JHYX01	5347571	58	63	19	12
<i>Pseudomonas plecoglossicida</i>	NBRC 103162^T	BBIV01	5341796	97	63	19	12
<i>Pseudomonas putida</i>	1A00316	2687453569*	5636969	43	64,5	23	3

<i>Pseudomonas putida</i>	791_PPUT	JUST01	6242976	576	62	10	17
<i>Pseudomonas putida</i>	A514	JSVW01	6767427	49	57,7	4	40
<i>Pseudomonas putida</i>	ABAC63	LKBN01	5139911	3451	62,3	5	41
<i>Pseudomonas putida</i>	ABAC8	LKGZ01	5543802	66	64,4	36	32
<i>Pseudomonas putida</i>	ATH-43	LBME01	5830220	64	61	17	13
<i>Pseudomonas putida</i>	B001	CAED01	5740939	262	62,2	11	15
<i>Pseudomonas putida</i>	B6-2	CP015202	6239598	27	61,6	8	22
<i>Pseudomonas putida</i>	BIRD-1	CP002290	5731541	1	61,7	8	22
<i>Pseudomonas putida</i>	CBB5	JTEN01	6817062	146	60	2	39
<i>Pseudomonas putida</i>	CBF10-2	LUCV01	6120625	73	63,7	30	31
<i>Pseudomonas putida</i>	CSV86	AMWJ01	6469780	209	63,1	30	31
<i>Pseudomonas putida</i>	DLL-E4	CP007620	6484062	1	62,5	12	19
<i>Pseudomonas putida</i>	DOT-T1E	CP003734	6260702	1	61,4	8	22
<i>Pseudomonas putida</i>	F1	CP000712	5959964	1	61,9	8	22
<i>Pseudomonas putida</i>	FDAARGOS_121	LORX01	6958027	3	66	outgroup	
<i>Pseudomonas putida</i>	GB-1	CP000926	6078430	1	61,9	9	21
<i>Pseudomonas putida</i>	H	LFYQ01	6059900	55	61,6	8	22
<i>Pseudomonas putida</i>	H8234	CP005976	6870827	1	61,6	10	16
<i>Pseudomonas putida</i>	HB13667	LKKS01	6325504	150	62,4	12	19
<i>Pseudomonas putida</i>	HB3267	CP003738	5875750	1	62,6	12	19
<i>Pseudomonas putida</i>	HB4184	LKKT01	5930511	122	61,7	11	15
<i>Pseudomonas putida</i>	IAC-RBcr5	LWMA01	5760798	26	62,4	9	21
<i>Pseudomonas putida</i>	Idaho	AGFJ01	6363067	839	61,6	8	22
<i>Pseudomonas putida</i>	INSali382	LSUZ01	6490841	246	61,6	8	22
<i>Pseudomonas putida</i>	IOFA1	LGRH01	5708798	188	61,4	8	23
<i>Pseudomonas putida</i>	JCM 18452	BBDB01	6284821	823	62	10	17
<i>Pseudomonas putida</i>	JCM 18798	BBDC01	6577590	924	61,6	10	16
<i>Pseudomonas putida</i>	JCM 9802	BBDA01	6035229	472	61,7	8	22
<i>Pseudomonas putida</i>	JLR11	LDJF01	6100369	39	61,6	8	22
<i>Pseudomonas putida</i>	JQ581	LWDW01	6563906	93	62	10	17
<i>Pseudomonas putida</i>	KB9	LVHH01	5751833	106	62,2	7	24

<i>Pseudomonas putida</i>	KF703	BBQL01	6434897	135	62,1	10	17
<i>Pseudomonas putida</i>	KG-4	AYRY01	5586914	91	63	12	20
<i>Pseudomonas putida</i>	KT2440	AE015451	6181863	1	61,5	8	22
<i>Pseudomonas putida</i>	LF54	AOUR02	5625016	180	61,3	8	23
<i>Pseudomonas putida</i>	LS46	ALPV02	5874759	32	61,7	8	22
<i>Pseudomonas putida</i>	MC4-5222	JOJW01	6858096	1152	59,7	1	38
<i>Pseudomonas putida</i>	M02	JFBC01	6240608	1589	62	12	19
<i>Pseudomonas putida</i>	MR3	ARYY01	2994716	1268	60,8	26	7
<i>Pseudomonas putida</i>	MT2	2675902956*	6313443	1	61,5	8	22
<i>Pseudomonas putida</i>	MTCC5279	AMZE01	5215788	171	62,5	27	5
<i>Pseudomonas putida</i>	N1R	2681812805*	5729055	1	62	8	22
<i>Pseudomonas putida</i>	NBRC 14164^T	AP013070	6156701	1	62,3	10	17
<i>Pseudomonas putida</i>	ND6	CP003588	6202452	2	61,7	8	22
<i>Pseudomonas putida</i>	NFIX47	FMXW01	6383414	21	60,6	3	37
<i>Pseudomonas putida</i>	OUS82	AZBL01	6633308	164	61,8	10	16
<i>Pseudomonas putida</i>	P1	MJVE01	5140103	2899	62,2	12	19
<i>Pseudomonas putida</i>	PA14H7	JBOP01	5878755	7	61,9	32	33
<i>Pseudomonas putida</i>	PC9	2521172712*	5956110	2	62,6	12	19
<i>Pseudomonas putida</i>	PCL1760	LIYM01	5772078	80	61,9	8	22
<i>Pseudomonas putida</i>	PD1	JUHC01	5997141	37	61,8	8	22
<i>Pseudomonas putida</i>	PSP1	MCBG01	5993057	64	63	22	1
<i>Pseudomonas putida</i>	PSP2	MCBH01	5959848	59	63	22	1
<i>Pseudomonas putida</i>	PSP3	MCBI01	5996539	77	63	22	1
<i>Pseudomonas putida</i>	PSP4	MCBJ01	5964102	55	63	22	1
<i>Pseudomonas putida</i>	S11	ALXA01	5970749	196	62,4	12	19
<i>Pseudomonas putida</i>	S12	ALNR01	6284656	258	61,5	8	22
<i>Pseudomonas putida</i>	S16	CP002870	5984790	1	62,3	12	19
<i>Pseudomonas putida</i>	S610	AYJQ01	4596354	69	62	6	28
<i>Pseudomonas putida</i>	SF1	LDPF01	5805879	292	62,5	12	19
<i>Pseudomonas putida</i>	SJ3	AXDX02	5596765	279	61,6	10	16

<i>Pseudomonas putida</i>	SJTE-1	CP015876	5551505	207	62,3	8	22
<i>Pseudomonas putida</i>	SQ1	JTCJ01	5320937	1623	61,6	17	13
<i>Pseudomonas putida</i>	T2-2	JALX01	5524229	389	62,6	7	24
<i>Pseudomonas putida</i>	TRO1	APBQ01	6315212	222	61,4	8	22
<i>Pseudomonas putida</i>	UASWS0946	JXOG01	6001296	191	63,9	36	32
<i>Pseudomonas putida</i>	W15Oct28	JENB01	6320510	119	62,8	10	18
<i>Pseudomonas putida</i>	W619	CP000949	5774330	1	61,4	17	13
<i>Pseudomonas putida</i>	YKD221	BBNC01	5870708	91	61,9	8	22
<i>Pseudomonas soli</i>	LMG 27941^T	FOEQ01	5644909	34	64	24	4
<i>Pseudomonas</i> sp.	GTC 16482	BCAS01	6764392	292	61,5	8	22
<i>Pseudomonas</i> sp.	LAIL14HWK12_I1	2541046952*	5665646	24	62,1	11	15
<i>Pseudomonas</i> sp.	LAIL14HWK12_I3	2521172669*	5666577	23	62,1	11	15
<i>Pseudomonas</i> sp.	LAMO17WK12_I11	2521172641*	5560711	25	62,2	11	15
<i>Pseudomonas</i> sp.	LAMO17WK12_I12	2521172640*	5564094	27	62,2	11	15
<i>Pseudomonas</i> sp.	LAMO17WK12_I7	2521172645*	5564386	24	62,2	11	15
<i>Pseudomonas</i> sp.	LAMO17WK12_I8	2521172536*	5565480	25	62,2	11	15
<i>Pseudomonas</i> sp.	NBRC 111117	BCAT01	5532473	61	64,5	36	32
<i>Pseudomonas</i> sp.	NBRC 111118	BCAU01	6400771	206	61	8	22
<i>Pseudomonas</i> sp.	NBRC 111119	BCAV01	5415012	106	62,3	21	25
<i>Pseudomonas</i> sp.	NBRC 111121	BCAX01	6284301	131	61,5	8	22
<i>Pseudomonas</i> sp.	NBRC 111123	BCAZ01	5672465	108	62,9	13	9
<i>Pseudomonas</i> sp.	NBRC 111124	BCBA01	6089375	109	62,4	14	10
<i>Pseudomonas</i> sp.	NBRC 111125	BCBB01	6340580	150	61,6	8	22
<i>Pseudomonas</i> sp.	NBRC 111127	BCBD01	5785197	352	62,5	7	24
<i>Pseudomonas</i> sp.	NBRC 111128	BCBE01	5746848	197	62,2	7	24
<i>Pseudomonas</i> sp.	NBRC 111129	BCBF01	5688102	233	62,1	7	24
<i>Pseudomonas</i> sp.	NBRC 111130	BCBG01	5718736	118	62,8	15	11
<i>Pseudomonas</i> sp.	NBRC 111131	BCBH01	6192173	106	61,8	18	14
<i>Pseudomonas</i> sp.	NBRC 111132	BCBI01	6091541	134	61,9	9	21
<i>Pseudomonas</i> sp.	NBRC 111133	BCBJ01	6466925	188	61,4	11	15
<i>Pseudomonas</i> sp.	NBRC 111134	BCBK01	6142670	147	62	10	16

<i>Pseudomonas</i> sp.	NBRC 111136	BCBM01	6551757	202	61,5	8	22
<i>Pseudomonas</i> sp.	NBRC 111140	BCBQ01	6303060	206	62,1	9	21
<i>Pseudomonas</i> sp.	NBRC 111142	BCBS01	6325459	329	62,8	22	1
<i>Pseudomonas</i> sp.	NBRC 111143	BCBT01	6327194	125	62,8	22	1
<i>Pseudomonas</i> sp.	NBRC 111144	BCBU01	5429876	187	62,4	7	24
<i>Pseudomonas</i> sp.	P482	NZ_JHTS01	5623997	69	62,4	33	34
<i>Pseudomonas</i> sp.	RV120224_01c	2545824562*	6037951	40	62,4	11	15
<i>Pseudomonas</i> sp.	RV12022401b	2545824563*	6042872	38	62,4	11	15
<i>Pseudomonas</i> sp.	URIL14HWK12_I5	2518645599*	5723734	24	62,1	11	15
<i>Pseudomonas</i> sp.	URIL14HWK12_I8	2545555814*	5822697	27	62	11	15
<i>Pseudomonas taiwanensis</i>	DSM 21245^T	AUEC01	5415134	67	61,8	20	8
<i>Pseudomonas taiwanensis</i>	SJ9	AXUP01	6253055	736	61,8	12	19
<i>Pseudomonas taiwanensis</i>	VLB120	2558309062*	5966222	2	61,6	20	8
<i>Pseudomonas vranovensis</i>	DSM 16006^T	AUED01	5697807	36	61,5	34	35
<i>Pseudomonas aeruginosa</i>	DSM 50071^T	NZ_CP012001	6291043	30	66,6	outgroup	

* Genome accession numbers obtained from the Joint Genome Institute

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m/z	<i>P. vranovensis</i>	<i>P. taiwanensis</i>	<i>P. plecoglossicida</i>	<i>P. mossellii</i>	<i>P. monteilli</i>
3011	-	-	-	-	-
3031	+	-	-	-	-
3299	-	-	-	+	-
3319	-	-	-	-	+
3327	+	+	+	-	-
3350	-	-	-	-	-
3587	+	+	+	+	-
3608	+	+	+	+	+
3649	-	-	-	-	-
4120	-	+	+	+	+
4128	+	-	-	-	-
4435	+	+	+	-	+
4449	-	-	-	+	-
4496	-	-	-	-	+
4551	+	-	-	-	-
4558	-	-	-	-	+
4809	-	-	-	+	-
4819	+	-	-	-	-
4829	+	-	-	-	-
4906	+	-	-	-	-
4950	-	-	-	+	-
4955	+	-	-	-	-
4957	-	+	-	-	-
4962	-	-	-	+	-
4969	-	-	+	-	+
4977	-	+	-	-	-
5096	-	+	-	-	-
5106	+	-	+	+	+
5117	-	+	-	-	-
5122	-	-	-	-	+
5124	+	+	+	-	-
5139	-	+	+	+	+
5153	-	+	+	-	-
5167	-	+	-	-	-
5188	-	-	-	-	-
5202	-	-	-	-	+
5264	-	-	-	-	+
5645	-	+	-	-	-
5990	-	+	+	+	+
6023	-	-	-	-	-
6054	-	-	-	-	+
6060	+	-	-	-	-
6086	-	-	-	-	-
6307	-	-	-	+	-
6321	+	-	-	-	+
6335	-	+	-	-	-
6595	-	-	-	+	-
6638	+	-	-	-	+
6653	+	+	+	-	-
6699	-	-	-	-	-
6702	-	-	-	-	+
7173	+	+	+	+	+
7213	+	+	+	+	+
7234	-	-	-	-	+
7277	-	-	-	-	+
7581	+	-	-	-	+
7606	-	+	-	-	-
7621	-	-	-	-	+
7853	-	-	-	-	-

8240		+	+	+	+
8256	+	-	-	-	-
9102	+	-	-	-	-
9815	+	-	-	-	-
9912	+	-	-	-	-
9939	-	-	-	-	+
9957	-	+	-	-	-
10207	+	-	-	-	-

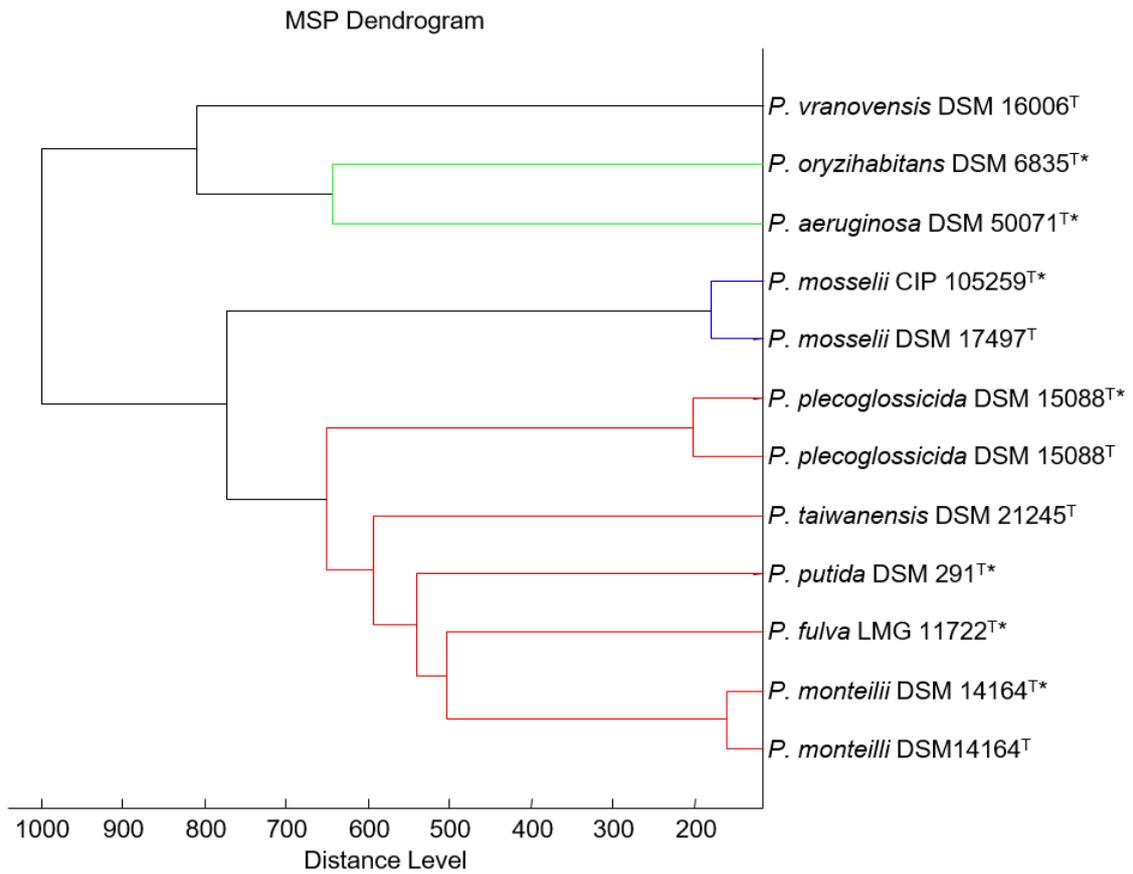


Figure S1. Dendrogram based on the comparison with the Biotyper program of the major proteins detected. The profiles of closely related type strains present in the Biotyper database are also included as a control and are labeled with an asterisk. Distances generated are arbitrary.