

Table 1. Functional classification of the genes detected in *Wigglesworthia pallidipes* by array analysis

<b>Cellular Processes</b>		<b>Nucleotide biosynthesis and metabolism</b>	b3993	thiE	
b0014	dnaK		b3994	thiC	
b0015	dnaJ	b0032			
b0018	gefL	b0033		<b>Cell structure</b>	
b0089	ftsW	b0049		b0087	mraY
b0094	ftsA	b0104		b0090	murG
b0095	ftsZ	b0474		b0091	murC (B,E,I)
b0141	yadN	b0523		b0179	lpxD (K)
b0188	mesJ	b0888		b0182	lpxB
b0229	fhiA	b1098		b0634	mrdB
b0230	mbhA	b1131		b0635	mrDA
b0433	ampG	b1849		b1215	kdsA (B)
b0479	fsr	b2065		b1879	flhA
b0623	cspE	b2234		b1891	flhC
b0990	cspG	b2312		b1922	fliA
b1076	flgE	b2498		b1924	fliD
b1078	flgG	b2508		b1948	fliP
b1175	minD	b2557		b2218	rCS
b1557	cspB			b2435	amiA
b1823	cspC	<b>Transcription, RNA processing/degradation</b>		b2519	pbpC
b1889	motB	b0148		b2817	amiC
b3178	hflB	b2370		b3182	dacB
b3266	acrF	b3067		b3189	murA
b3638	radC	b3162		b3224	nanT
b3673	emrD	b3164		b3251	mreB
b3931	hslU	b3169		b3428	glgP
b3932	hslV	b3295		b3429	glgA
b4142	mopB	b3461		b3624	rfaZ
b4143	mopA	b3780		b3793	rffT
		b3783		b3842	rfaH
<b>Fatty acid and phospholipid metabolism</b>		b3982		b4317	fimD
b0180	fabZ	b3987			
b0185	accA	b3988		<b>Regulatory function</b>	
b0954	fabA			b0439	lon
b1094	acpP	<b>Biosynthesis of cofactors, prosthetic groups/carriers</b>		b1608	rstA
b1249	cls	b0068		b3105	yhaJ
b2316	accD	b0154		b3779	gppA
b2323	fabB	b0415		b3791	yifI
b2828	lgt	b0421		b3912	cpXR
b3256	accC	b0475			
b4041	plsB (C)	b0529		<b>Replication/recombination</b>	
		b0596		<b>DNA modification/repair</b>	
<b>Carbon compound metabolism</b>		b0628		b0214	rnhA
b0064	araC	b0630		b0470	dnaX
b2297	pta	b0750		b0640	holA
b2458	eutI	b0774		b0708	phrB
b2799	fucO	b0775		b0892	ycaJ
b2714	ascG	b0776		b1084	rne
b2805	fucR	b2315		b1235	hnr
b2901	bglA	b2436		b1237	hns
b2980	glcC	b2574		b1286	rnb
b3032	icc	b2688		b1961	dcm
b3127	yhaU	b2947		b2184	yejH
b3417	malP	b3447		b2699	recA
b3950	frwB	b3991		b3652	recG
b4323	uxuB			b3701	dnaN
				b3702	dnaA

b3741	gidA	b3772	ilvA	b3732	atpD	
b3822	recQ	b3773	ilvY	b3733	atpG	
b3813	uvrD	b3774	ilvC	b3734	atpA	
<b>Central intermediary metabolism</b>			b3809	b3737	atpE	
b0121	speE	b3828	metR	b3739	atpI	
b0268	yagE	b3829	metE	b3844	ubiB (G)	
b0451	amtB	b3868	glnG	b3895	fdhD	
b0480	ushA	b3869	glnL	b3916	pfkA	
b0718	ybgQ	b3870	glnA	b3919	tpiA	
b1702	ppsA	b3939	metB	b4025	pgi	
b2521	sseA	b3940	metL	b4073	nrfD	
b2484	hyfD	b3957	argE	b4074	nrfE	
b2538	digA	b3958	argC	<b>Translation and post-translational modification</b>		
b2675	nrdE	b3959	argB	b0023	rpsT	
b2676	nrdF	b3960	argH	b0026	ileS	
b2751	cysN	b4024	lysC	b0168	map	
b2764	cysJ	b4054	tyrB	b0194	proS	
b2765	ygcM	b4117	adi	b0438	clpX	
b2780	pyrG	b4131	cadA	b0441	ppiD	
b2808	gcvA	b4133	cadC	b0526	cysS	
b2927	epd	<b>Energy Metabolism</b>			b0642	leuS
b2938	speA	b0114	aceE	b0884	infA	
b2937	speB	b0115	aceF	b0893	serS	
b3136	agaS	b0116	lpdA	b0911	rpsA	
b3176	mrsA	b0428	cyoE	b0930	asnS	
b3213	gltD	b0431	cyoB	b1089	rpmF	
b3403	pckA	b0720	gltA	b1211	prfA	
b3617	kbl	b0721	dhsC (sdhC)	b1538	dcp	
b4099	phnI	b0723	dhsA (sdhA)	b1637	tyrS	
b4095	phnM	b0724	dhsB (sdhB)	b1713	pheT	
<b>Amino acid biosynthesis and metabolism</b>			b0726	b1719	thrS	
b0269	yagF	b0726	sucA	b1766	sppA	
b0273	argF	b0759	galE	b1830	prc	
b0674	asnB	b0903	pflB	b2114	metG	
b2329	aroC	b0997	torA	b2190	yeyO	
b2551	glyA	b1109	ndh	b2318	truA	
b2600	tyrA	b1300	aldH	b2400	gltX	
b2601	aroF	b1474	fdnG	b2514	hisS	
b2797	sdaB	b1587	ydfN	b2569	lepA	
b2838	lysA	b1588	ynfF	b2592	clpB	
b2839	lysR	b1611	fumC	b2697	alaS	
b2913	serA	b1676	pykF	b2890	lysS	
b2957	ansB	b1852	zwf	b2891	prfB	
b3172	argG	b1854	pykA	b3020	ygiS	
b3359	argD	b2277	nuoM	b3129	sohA	
b3389	aroB	b2465	tktB	b3165	rpsO	
b3390	aroK	b2469	narQ	b3168	infB	
b3433	asd	b2482	yffF	b3185	rpmA	
b3572	avtA	b2779	eno	b3186	rplU	
b3607	cysE	b2914	rpiA	b3230	rpsI	
b3616	tdh	b2935	tktA	b3231	rplM	
b3744	asnA	b2994	hybC	b3234	hhoA	
b3770	ilvE	b2995	hybB	b3235	hhoB	
b3771	ilvD	b3062	ttdB	b3294	rplQ	
		b3132	agaZ	b3296	rpsD	
		b3425	glpE	b3297	rpsK	
		b3605	lctD			
		b3608	gpsA			

b3301	rplO	b0576	pheP	b3599	mtIA
b3302	rpmD	b0581	ybdA	b3660	yicL
b3303	rpsE	b0590	fepD	b3667	uhpC
b3304	rplR	b0657	Int	b3668	uhpB
b3305	rplF	b0660	ybeZ	b3679	yidK
b3306	rpsH	b0679	nagE	b3685	yidE
b3307	rpsN	b0698	kdpA	b3816	corA
b3310	rplN	b0715	ybgN	b3849	trkH
b3313	rplP	b0794	ybhF	b3876	yihO
b3314	rpsC	b0810	glnP	b3877	yihP
b3315	rplV	b0820	ybiT	b3909	kdgT
b3316	rpsS	b0831	yliC	b3947	ptsA
b3317	rplB	b0855	potG	b3981	secE
b3319	rplD	b0856	potH	b4033	malF
b3320	rplC	b0857	PotI	b4035	malK
b3321	rpsJ	b0860	artJ	b4104	phnE
b3339	tufA	b0914	msbA	b4106	phnC
b3340	fusA	b1015	putP	b4111	proP
b3341	rpsG	b1123	potD	b4141	yjeH
b3342	rpsL	b1124	potC	b4156	yjeM
b3384	trpS	b1125	potB	b4227	ytfQ
b3498	prlC	b1223	narK	b4289	fecC
b3559	glyS	b1243	oppA		
b3560	glyQ	b1250	kch		
b3590	selB	b1294	sapA	<b>Putative enzymes</b>	
b3591	selA	b1318	ycjV	b0129	yadI
b3636	rpmG	b1323	tyrR	b0323	yahl
b3637	rpmB	b1451	yncD	b0420	yajP (dxs)
b3703	rpmH	b1487	ddpA	b0493	ybbO
b3775	ppiC (D)	b1711	btuC	b0496	ybbP
b3847	pepQ	b1737	celB	b0518	fdrA
b3860	dsbA	b2148	mglC	b0615	citF
b3871	yihK	b2156	lysP	b0616	citE
b3980	tufB	b2180	yejF	b0618	citC
b3983	rplK	b2211	yojI	b1378	ydbK
b4174	hflK	b2306	hisP	b2254	pmrF
b4258	valS	b2310	argT	b2255	yfbG
b4260	pepA	b2546	yphD	b2263	yfbB
b4375	prfC	b2610	ffh	b2269	elaD
		b2882	ygfO	b2290	yfbQ
		b2975	yghK	b2293	yfbT
<b>Transport and</b>		b3089	ygjU	b2304	yfcH
<b>binding proteins</b>		b3175	secG	b2324	yfcK
b0047	kefC (A)	b3201	yhbG	b2330	yfcB
b0098	secA	b3268	yhdW	b2373	yfdU
b0127	yadG	b3290	trkA	b2410	yfeH
b0153	fhuB	b3300	prlA	b2511	yfgK
b0155	yadQ	b3350	kefB	b2517	yfgB
b0173	yaeM	b3364	yhfC	b2534	yfhR
b0199	abc	b3370	yhfM	b2541	yfhX
b0314	betT	b3436	gntU	b2545	yphC
b0336	codB	b3450	ugpC	b2710	ygaK
b0353	mhpT	b3457	livH	b2711	ygbD
b0367	tauC	b3523	yhjE	b2736	ygbJ
b0408	secD	b3539	yhjV	b2738	ygbL
b0409	secF	b3542	dppC	b2774	ygcW
b0448	mdIA	b3552	yiaD	b2776	ygcE
b0449	mdIB	b3567	xyIG	b2867	ygeT
b0575	ybdE			b2869	ygeV

b2871	ygeX	b0671	o50	b2515	gcpE
b2874	yqeA	b0681	ybfM	b2653	f57
b2875	yqeB	b0717	ybgP	b2666	yqaE
b2881	ygfN	b0792	ybhR	b2866	ygeS
b2885	o276	b0807	ybiN	b2928	yggC
b2887	ygfT	b0818	ybiR	b2948	yqgE
b2899	yqfA	b0835	yliG	b3071	yqjI
b2974	f675	b1133	ycfB	b3080	ygjK
b2978	GlcE (F)	b1191	ycgO	b3082	ygjM
b2997	yghV	b1268	yciQ	b3087	ygjR
b3011	yqhD	b1269	yciL	b3232	yhcm
b3052	rfaE	b1407	ydbD	b3407	yhgF
b3073	ygiG	b1410	ybcC	b3492	yhiN
b3078	ygiJ	b1494	yddC	b3499	yhiR
b3081	ygiL	b1545	ydfL	b3533	yhjO
b3102	yqiG	b1552	cspl	b3587	yiaW
b3125	yhaE	b1639	ydhA	b3606	yibK
b3173	yhbX	b1642	slyA	b3611	yibN
b3197	yrbH	b1649	ydhM	b3612	yibO
b3253	yhdH	b1668	ydhS	b3659	yicK
b3338	yheB	b1683	sufB	b3664	yicO
b3398	yrfF	b1687	ydiJ	b3665	yicP
b3475	yhhU	b1688	ydiK	b3677	yidI
b3530	yhjL	b1706	ydiU	b3689	yidR
b3553	yiaE	b1725	yniA	b3690	yidS
b3575	yiaK	b1741	ydjQ	b3693	yidV
b3576	yiaL	b1742	ydjR	b3746	yieN
b3589	yiaY	b1752	ydjZ	b3810	yigA
b3792	yifJ	b1755	ynjC	b3827	yigM

**Hypothetical**

b0069	yabN
b0174	uppS
b0176	yaeL
b0177	yaeT
b0267	yagA
b0284	yagR
b0285	yagS
b0321	yahG
b0335	yahU
b0445	ybaE
b0456	ybaA
b0457	ylaB
b0488	ybbJ
b0500	ybbD
b0514	ybbZ
b0544	ybcK
b0567	ybcH
b0597	ybdB
b0598	ybdC
b0602	ybdN
b0607	ybdQ
b0639	nadD (ybeN)
b0645	ybeR
b0647	ybeT
b0659	ybeY
b0663	o111
b0669	o39

b1769	ydjE
b1784	yeaH
b1785	yeal
b1790	yeaM
b1858	znuC
b2000	yzzX
b2027	wzzB
b2046	wzxC
b2101	yegW
b2107	yohN
b2109	yehB
b2118	yehI
b2126	yehU
b2130	yehY
b2207	yojF
b2210	yojH
b2214	yojL
b2230	yfaA
b2286	nuoC
b2356	yfdM
b2374	yfdW
b2384	ypdE
b2450	yffS
b2451	yffT
b2466	ypfG
b2474	ypfI
b2475	ypfJ
b2494	yfgC
b2503	yfgF

b3839	yigU
b3843	yigC
b3859	yihE
b3896	yiiG
b3910	yiiM
b3915	yiiP
b3925	glpX
b4002	yjaI
b4049	yjbN
b4065	yjcE
b4067	yjcG
b4161	yjeQ
b4385	yjjJ
b4391	yjjK
b3183	yhbZ

**Phage/transposon/plasmid**

b0257	o141
b0372	tra5
b0740	tolB
b1374	ynaD
b4172	hfq