



Supplementary table S1: The 104 species targeted by PMP™ panels. The PMP™ qPCR probes are specific for the commercially available DMSZ and ATCC bacteria species genomes listed, and standard curves are made for each reference genome to enable quantification of the bacteria species.

Organism	BIO-ME assay number	Reference DNA	Standard curve coefficients	
			<i>a</i>	<i>b</i>
<i>Acidaminococcus intestini</i>	001	DSMZ 21505	-1.05061048	30.97420279
<i>Akkermansia muciniphila</i>	002	DSMZ 22959	-0.99200069	27.99878359
<i>Alistipes finegoldii</i>	003	DSMZ 17242	-0.98701559	30.05656981
<i>Alistipes onderdonkii</i>	004	DSMZ 19147	-1.04163499	30.7075846
<i>Alistipes putredinis</i>	005	DSMZ 17216	-1.09219549	31.50681812
<i>Alistipes shahii</i>	006	DSMZ 19121	-1.05918421	30.26379342
<i>Anaerobutyricum hallii</i>	007	DSMZ 3353	-0.94450275	30.52602934
<i>Anaerostipes hadrus</i>	008	DSMZ 3319	-0.9929078	30.08062728
<i>Bacteroides caccae</i>	009	DSMZ 19024	-0.94871781	29.78049382
<i>Bacteroides cellulosilyticus</i>	010	DSMZ 14838	-1.01554703	30.26067387
<i>Bacteroides coprocola</i>	011	DSMZ 17136	-1.03990522	30.12786534
<i>Bacteroides dorei</i>	012	DSMZ 17855	-0.915311	28.32832543
<i>Bacteroides eggerthii</i>	013	DSMZ 20697	-0.97839003	28.12306779
<i>Bacteroides finegoldii</i>	014	DSMZ 17565	-0.95839557	29.34717734
<i>Bacteroides fragilis</i>	015	DSMZ 2151	-1.04885914	30.02264856
<i>Bacteroides intestinalis</i>	016	DSMZ 17393	-1.01698864	29.74175488
<i>Bacteroides massiliensis</i>	017	DSMZ 17679	-0.98004837	28.272182
<i>Bacteroides nordii</i>	018	DSMZ 18764	-1.09923573	30.93153838
<i>Bacteroides ovatus</i>	019	DSMZ 1896	-1.02943587	30.55452496
<i>Bacteroides plebeius</i>	020	DSMZ 17135	-1.0586166	30.28596137
<i>Bacteroides pyogenes</i>	021	DSMZ 20611	-1.27181603	33.48445974
<i>Bacteroides stercorisoris</i>	022	DSMZ 26884	-0.96905696	28.56165362
<i>Bacteroides stercoris</i>	023	DSMZ 19555	-1.04436195	30.52559276
<i>Bacteroides thetaiotaomicron</i>	024	DSMZ 2079	-0.99588526	29.97868842
<i>Bacteroides vulgatus</i>	025	DSMZ 1447	-0.99375166	30.04611268
<i>Bacteroides xylanisolvens</i>	026	DSMZ 18836	-1.04977123	30.2109513
<i>Barnesiella intestinihominis</i>	027	DSMZ 21032	-0.99423239	29.2892562
<i>Bifidobacterium adolescentis</i>	028	DSMZ 20083	-1.01681283	27.59507437
<i>Bifidobacterium angulatum</i>	029	DSMZ 20098	-0.97819653	29.71230634
<i>Bifidobacterium bifidum</i>	030	DSMZ 20456	-0.96510907	30.14128241
<i>Bifidobacterium catenulatum</i>	031	DSMZ 16992	-0.96028633	28.05646253
<i>Bifidobacterium longum</i>	032	DSMZ 20088, DSMZ 20219	-0.97281345	28.90702869
<i>Bifidobacterium pseudocatenulatum</i>	033	DSMZ 20438	-0.99173488	26.5329584
<i>Bilophila wadsworthia</i>	034	DSMZ 11045	-1.01117429	29.55859266
<i>Blautia hydrogenotrophica</i>	035	DSMZ 10507	-1.00971335	30.8131316
<i>Blautia wexlerae</i>	036	DSMZ 19850	-1.11039423	30.59460761
<i>Butyrivibrio crossotus</i>	037	DSMZ 2876	-1.03971266	31.01461527
<i>Christensenella minuta</i>	038	DSMZ 22607	-0.91593106	26.26144741
<i>Citrobacter koseri</i>	039	DSMZ 4595	-1.10189398	31.33504815

<i>Clostridium bolteae</i>	040	DSMZ 15670	-1.00074079	29.47113956
<i>Clostridium butyricum</i>	041	DSMZ 10702	-1.06325494	30.86244565
<i>Clostridium citroniae</i>	042	DSMZ 19261	-1.03889555	30.32929622
<i>Clostridium leptum</i>	043	DSMZ 753	-0.97427548	26.94196736
<i>Clostridium nexile</i>	044	DSMZ 1787	-1.07268777	30.80280579
<i>Clostridium scindens</i>	045	DSMZ 5676	-0.99249464	27.84473891
<i>Clostridium symbiosum</i>	046	DSMZ 934	-1.0426042	30.29530036
<i>Collinsella aerofaciens</i>	047	DSMZ 3979	-0.99547011	29.80091144
<i>Collinsella intestinalis</i>	048	DSMZ 13280	-1.09303418	30.50259202
<i>Coprococcus catus</i>	049	ATCC 27761	-1.08774726	31.09799167
<i>Coprococcus comes</i>	050	ATCC 27758	-0.97342159	28.83727187
<i>Desulfovibrio piger</i>	051	DSMZ 749	-1.06973085	30.06719604
<i>Dorea formicigenerans</i>	052	DSMZ 3992	-0.99322225	29.6728366
<i>Dorea longicatena</i>	053	DSMZ 13814	-1.00182917	30.09620124
<i>Eggerthella lenta</i>	054	DSMZ 2243	-1.06605138	30.99166682
<i>Eisenbergiella massiliensis</i>	055	DSMZ 101499	-1.04924994	30.17645471
<i>Eisenbergiella tayi</i>	056	DSMZ 26961	-1.08357349	29.91507109
<i>Enterococcus dispar</i>	057	DSMZ 6630	-1.07038602	30.14395012
<i>Enterococcus faecalis</i>	058	DSMZ 20478	-1.13299593	31.09974288
<i>Enterococcus faecium</i>	059	DSMZ 20477	-1.06061417	30.69427997
<i>Enterococcus hirae</i>	060	DSMZ 20160	-1.08260705	31.15199318
<i>Erysipelatoclostridium ramosum</i>	061	DSMZ 1402	-1.03375451	30.21368043
<i>Escherichia coli</i>	062	DSMZ 30083	-0.97357413	29.26532652
<i>Eubacterium eligens</i>	063	DSMZ 3376	-0.98195148	30.41186476
<i>Eubacterium rectale</i>	064	DSMZ 17629	-0.99768899	27.90880377
<i>Eubacterium siraeum</i>	065	DSMZ 15702	-0.99046026	29.86540549
<i>Eubacterium ventriosum</i>	066	DSMZ 3988	-0.94953202	29.78624085
<i>Faecalibacterium prausnitzii</i>	067	DSMZ 17677	-0.99727617	30.26448204
<i>Fusobacterium varium</i>	068	DSMZ 19868	-1.02620668	31.05126535
<i>Haemophilus parainfluenzae</i>	069	DSMZ 8978	-1.05366826	29.73433083
<i>Hafnia alvei</i>	070	DSMZ 30163	-1.06905313	30.0326339
<i>Klebsiella variicola</i>	071	DSMZ 15968	-0.96734124	29.58339885
<i>Lactobacillus acidophilus</i>	072	DSMZ 20079	-1.01748389	30.54203154
<i>Lactobacillus animalis</i>	073	DSMZ 20602	-1.06402298	30.18071147
<i>Lactobacillus brevis</i>	074	DSMZ 20054	-1.07579118	31.07036533
<i>Lactobacillus jensenii</i>	075	DSMZ 20557	-1.01853873	30.25214011
<i>Lactobacillus paracasei</i>	076	DSMZ 5622	-1.02335	31.48621617
<i>Lactobacillus rhamnosus</i>	077	DSMZ 20021	-1.09411101	30.21476944
<i>Lactobacillus ruminis</i>	078	DSMZ 20403	-0.98212992	29.68251303
<i>Lactobacillus salivarius</i>	079	DSMZ 20555	-1.03981024	29.71281834
<i>Methanobrevibacter smithii</i>	080	DSMZ 861	-1.02710283	29.23576913
<i>Morganella morganii</i>	081	DSMZ 30164	-1.06757616	29.66653129
<i>Mycoplasma hominis</i>	082	DSMZ 25592	-1.05382172	31.24076181
<i>Odoribacter splanchnicus</i>	083	DSMZ 20712	-1.06846044	30.45616819
<i>Parabacteroides distasonis</i>	084	DSMZ 20701	-0.98009259	28.75145783
<i>Parabacteroides goldsteinii</i>	085	DSMZ 19448	-1.05714489	30.39481878
<i>Parabacteroides gordonii</i>	086	DSMZ 23371	-0.98096663	29.21102888

<i>Parabacteroides merdae</i>	087	DSMZ 19495	-0.99997555	29.050045
<i>Paraprevotella clara</i>	088	DSMZ 19731	-1.03703379	30.52026965
<i>Prevotella copri</i>	089	DSMZ 18205	-0.98140764	28.8991566
<i>Prevotella stercorea</i>	090	DSMZ 18206	-1.12538489	31.84220512
<i>Proteus mirabilis</i>	091	DSMZ 4479	-1.05650952	31.0140791
<i>Roseburia hominis</i>	092	DSMZ 16839	-1.02223434	30.31886566
<i>Roseburia intestinalis</i>	093	DSMZ 14610	-1.04161979	27.450061
<i>Roseburia inulinivorans</i>	094	DSMZ 16841	-1.05804935	30.1451495
<i>Ruminococcus albus</i>	095	DSMZ 20455	-1.14233963	30.23344
<i>Ruminococcus bromii</i>	096	ATCC 27255	-1.00316784	29.49455476
<i>Ruminococcus gnavus</i>	097	DSMZ 108212	-1.00381811	29.66311384
<i>Ruminococcus torques</i>	098	ATCC 27756	-1.05778764	31.54960136
<i>Streptococcus sanguinis</i>	099	DSMZ 20567	-1.02869686	28.80567265
<i>Streptococcus thermophilus</i>	100	DSMZ 20617	-0.97681106	29.89745222
<i>Subdoligranulum variabile</i>	101	DSMZ 15176	-0.98936484	29.29031483
<i>Sutterella wadsworthensis</i>	102	DSMZ 14016	-0.9647432	28.73388786
<i>Turicibacter sanguinis</i>	103	DSMZ 14220	-0.98675327	30.71085981
<i>Veillonella atypica</i>	104	DSMZ 20739	-1.02831246	30.39838561