

Table S1. Results from in-silico search for variant primer binding sites for the poly-I and 3'-end segments of the DP016S primers

PRIMERS: 16SDPO-Forward 16SDPO-Reverse
poly-I + 3'-segment: IIIIIAACGCT GCYAAITIII (Reverse-inverted; Y=T/C)

Bacterial species	GenBank accession*		
Abiotrophia defectiva	AY879307	-----	-----
Achromobacter xylosoxidans	CP002287	-----	-----
Acidaminococcus fermentans	CP001859	-----	-----
Acinetobacter baumannii	CP000521	-----	-----
Acinetobacter calcoaceticus	AJ888984	-----	-----
Actinobacillus pleuropneumoniae	CP000569	-----	-----
Actinobaculum schaalii	EF151127	-----	-----
Actinomyces europaeus	NR_026363	-----	-----
Actinomyces meyeri	AF457639	-----	-----
Actionobacillus actinomycetemcomitans	NR_029171	-----	-----
Adlercreutzia equolifaciens	AB306661	-----	-----
Aerococcus urinae	U64458	-----	-----
Aeromonas hydrophila	CP000462	-----	-----
Agrobacterium tumefaciens	AE007870	-----	-----
Alcaligenes faecalis	AY548384	-----	-----
Allistipes shahii	AB554233	-----	-----
Alloscardovia omnicolens	AJ278695	-----	-----
Anaerococcus prevotii	CP001708	-----	-----
Anaerococcus vaginalis	D14146	-----	-----
Anaplasma phagocytophilum	CP000235	-----	--A----- ONE MISMATCH
Arcanobacterium pyogenes	EU268191	-----	-----
Atopobium parvulum	CP001721	-----	-----
Bacillus cereus	CP001407	-----	-----
Bacillus subtilis	AL009126	-----	-----
Bacteroides fragilis	AP006841	-----	-----
Bacteroides vulgatus	CP000139	-----	-----
Bartonella henselae	BX897699	-----	-----
Bergeriella denitificans	AB087265	-----	-----
Bifidobacterium adolescentis	AP009256	-----	-----
Bifidobacterium longum	CP001095	-----	-----
Bordetella bronchiseptica	BX640449	-----	-----
Bordetella pertussis	BX640420	-----	-----
Borrelia burgorferi	CP001205	-----	-----
Brevibacillus brevis	AP008955	-----	-----
Brucella melitensis	CP001488	-----	-----
Burkholderia multivorans	AP009386	-----	-----
Burkholderia pseudomallei	CP000571	-----	-----
Campylobacter gracilis	L04320	-----	-----
Campylobacter jejuni	AL111168	-----	-----
Campylobacter lari	CP000932	-----	-----
Capnocytophaga gingivalis	NR_026094	-----	-----
Catonella sp.	AF385577	-----	-----
Chlamydia trachomatis	CP000051	-----	-----
Chlamydomydia pneumoniae	AE001363	-----	-----
Chryseobacterium hominis	AM261868	-----	-----

Citrobacter koseri	CP000822	-----	-----
Clostridium boltae	NR_025567	-----	-----
Clostridium botulinum	CP000726	-----	-----
Clostridium perfringens	AB045283	-----	-----
Clostridium septicum	NR_026020	-----	-----
Collinsella stercooris	NR_027527	-----	-----
Corynebacterium jeikeium	CR931997	-----	-----
Corynebacterium tuberculostearicum	NR_028975	-----	-----
Coxiella burnetii	CP001019	-----	-----
Cronobacter sakazakii	CP000783	-----	-----
Delftia acidovorans	CP000884	-----	-----
Dermabacter hominis	X91034	-----	-----
Desulfovibrio desulfuricans	AF192153	-----	-----
Desulfovibrio pigra	AF192152	-----	-----
Dialister microaerophilus	AY958874	-----	-----
Dialister pneumosintes	Z36297	-----	-----
Dietzia schimae	NR_044482	-----	-----
Dysgonomonas gadei	NR_026505	-----	-----
Edwardsiella ictaluri	CP001600	-----	-----
Eggerthella lenta	CP001726	-----	-----
Ehrlichia chaffeensis	CP000236	-----	--A----- ONE MISMATCH
Ehrlichia ewingii	NR_044747	-----	--A----- ONE MISMATCH
Eikenella corrodens	GQ422740	-----	-----
Enterobacter cloacae	FP929040	-----	-----
Enterococcus faecalis	AJ420803	-----	-----
Erysipelotrix rhusiopathiae	AB055908	-----	-----
Escherichiae coli	CP001509	-----	-----
Eubacterium brachy	NR_036993	-----	-----
Facklamia ignava	NR_026447	-----	-----
Facklamia miroungae	NR_025400	-----	-----
Finegoldia magna	AP008971	-----	-----
Flavobacterium johnsoniae	CP000685	-----	-----
Flexispira rappini	AY192528	-----	-----
Francisella tularensis	AM286280	-----	-----
Fusobacterium necrophorum	AM905356	-----	-----
Fusobacterium nucleatum	AE009951	-----	-----
Gemella haemolysans	NR_025903	-----	-----
Gemella morbillorum	NR_025904	-----	-----
Gordonia bronchialis	AB472842	-----	-----
Gordonia terrae	AB355992	-----	-----
Granulicatella adjacens	NR_025862	-----	-----
Haemophilus ducrey	AE017143	-----	-----
Haemophilus influenzae	AF224305	-----	-----
Hafnia alvei	FJ971884	-----	-----
Helicobacter pylori	U01330	-----	-----
Jonquetella anthropi	FJ577258	-----	--A----- ONE MISMATCH
Kingella kingae	AY551999	-----	-----
Klebsiella pneumoniae	CP000964	-----	-----
Klyuvera ascorbata	AF176559	-----	-----
Kocuria kristinae	NR_026199	-----	-----

<i>Lactobacillus casei</i>	CP000423	-----	-----
<i>Lactobacillus gasseri</i>	AF519171	-----	-----
<i>Lactococcus lactis</i>	AE006456	-----	-----
<i>Legionella pneumophila</i>	CP000675	-----	-----
<i>Leptospira biflexa</i>	CP000777	-----	-----
<i>Leptospira borgpetersenii</i>	CP000348	-----	-----
<i>Leptotrichia goodfellowii</i>	NR_025649	-----	-----
<i>Leptotrichia wadei</i>	AY029802	-----	-----
<i>Leuconostoc mesenteroides</i>	FJ655776	-----	-----
<i>Listeria monocytogenes</i>	AL591981	-----	-----
<i>Microbacterium laevaniformans</i>	EU879962	-----	-----
<i>Micrococcus luteus</i>	CP001628	-----	-----
<i>Mobiluncus curtisii</i>	AJ576084	-----	-----
<i>Mogibacterium timidum</i>	Z36296	-----	-----
<i>Moraxella catarrhalis</i>	AF192341	-----	-----
<i>Moraxella nonliquefaciens</i>	EF611819	-----	-----
<i>Mycobacterium avium</i>	CP000479	-----	-----
<i>Mycobacterium tuberculosis</i>	X58890	-----	-----
<i>Mycobacterium ulcerans</i>	CP000325	-----	-----
<i>Mycoplasma hominis</i>	AF443616	-----	-----
<i>Neisseria gonorrhoeae</i>	CP001050	-----	-----
<i>Neisseria meningitidis</i>	CP001561	-----	-----
<i>Neorickettsia sennetu</i>	CP000237	-----	-----
<i>Nocardia cyriacigeorgica</i>	EF127493	-----	-----
<i>Nocardia farcinica</i>	AP006618	-----	-----
<i>Odoribacter splanchnicus</i>	AB547649	-----	-----
<i>Olsenella sp</i>	EU592964	-----	-----
<i>Pantoea agglomerans</i>	AF373196	-----	-----
<i>Parabacteroides gordonii</i>	AB470345	-----	-----
<i>Paracoccus yeiii</i>	AY014179	-----	-----
<i>Parvimonas micra</i>	D14143	-----	-----
<i>Pasteurella multocida</i>	AE006065	-----	-----
<i>Pedobacter piscium</i>	NR_025536	-----	-----
<i>Peptoniphilus indolicus</i>	D14147	-----	-----
<i>Peptostreptococcus stomatis</i>	GQ422715	-----	-----
<i>Plesiomonas shigelloides</i>	X74688	-----	-----
<i>Porphyromonas endodontalis</i>	L16491	-----	-----
<i>Prevotella oris</i>	GQ131410	-----	-----
<i>Propionibacterium acnes</i>	AB042288	-----	-----
<i>Proteus mirabilis</i>	AF008582	-----	-----
<i>Providencia stuartii</i>	NR_024848	-----	-----
<i>Pseudomonas aeruginosa</i>	AE004091	-----	-----
<i>Ralstonia mannitolilytica</i>	AY043378	-----	-----
<i>Raoltella ornithinolytica</i>	U78182	-----	-----
<i>Rhodococcus equi</i>	DQ150573	-----	-----
<i>Rickettsia akari</i>	CP000847	-----	-----
<i>Rothia mucilaginosa</i>	DQ409140	-----	-----
<i>Rothia mucilaginosa</i>	X87758	-----	-----
<i>Ruminococcus gnavus</i>	L76597	-----	-----
<i>Serratia marcesens</i>	AB061685	-----	-----

<i>Shewanella putrefaciens</i>	CP000681	-----	-----
<i>Shuttleworthia satelles</i>	AF399956	-----	-----
<i>Sneathia sanguinegenes</i>	NR_025487	-----	-----
<i>Solobacterium moorei</i>	GU470839	-----	-----
<i>Sphingobacterium spiritivorum</i>	M58778	-----	-----
<i>Sphingomonas paucimobilis</i>	D13725	-----	-----
<i>Staphylococcus aureus</i>	NC_002953	-----	-----
<i>Staphylococcus caprae</i>	NR_024665	-----	-----
<i>Staphylococcus haemolyticus</i>	AP006716	-----	-----
<i>Stenotrophomonas maltophilia</i>	AB294557	-----	-----
<i>Streptococcus agalactiae</i>	CP000114	-----	-----
<i>Streptococcus anginosus</i>	AF145239	-----	-----
<i>Streptococcus parasanguinis</i>	NR_024842	-----	-----
<i>Streptococcus pneumoniae</i>	CP000918	-----	-----
<i>Streptococcus sanguinis</i>	CP000387	-----	-----
<i>Sutterella wadsworthensis</i>	FJ368987	-----	-----
<i>Tannerella forsythensis</i>	AB035460	-----	-----
<i>Treponema scoranscii</i>	NR_028690	-----	-----
<i>Tropheryma whipplei</i>	AE014184	-----	-----
<i>Tsukamurella strandjordii</i>	NR_025113	-----	-----
<i>Ureaplasma urealyticum</i>	CP001184	-----	-----
<i>Veilonella dispar</i>	AY995770	-----	-----
<i>Vibrio parahaemolyticus</i>	BA000031	-----	-----
<i>Yersinia pestis</i>	AL590842	-----	-----

*Accessions used for validation of poly-I + 3'-segments. For 5'-segments other references might have been used.