

Table S1. Candidate AraR-binding sites in the genomes of *Bacteroides* and *Prevotella* spp.

Genome / Target gene	Site position	Site score	AraR locus tag / AraR site	Regulated operon	Other regulators
<i>Bacteroides thetaiotaomicron</i> VPI-548					
BT0354					
BT0356	-83	5.64	AgAGTGTAttTGaTACACcaa	araMPRDAB-X-abf3	
	-59	5.85	AAAGTGTtACTtTTACACcca		
BT0365	-166	5.5	AAAGTGTAaAaagACACTTa	X-susCD-susCD-abn1	HTCS-Ara-1
BT3047	-228	5.04	AtAaTGTAaAAtcTACACTca	X-susCD-X	HTCS-Ara-2
BT4163	-330	4.96	AAAtTGTAttAtcTACACTcT	X-susCD-XX-susCD-pelL-X	HTCS-Rgu-2
<i>Bacteroides ovatus</i> ATCC 8483					
BACOVA_01713					
BACOVA_01715	-83	5.64	AgAGTGTAttTGaTACACcaa	araMPRDAB-X-abf3	
	-59	5.85	AAAGTGTtACTtTTACACcca		
BACOVA_03483	-139	5.09	AAAGTGTaTaTtTTACcCTTg	abf3-agaL	
<i>Bacteroides cellulosilyticus</i> DSM 14838					
BACCELL_05606					
BACCELL_05604	-85	5.5	cAAGTGTtACTaaTACACTca	araMPRDAB-X-abf3	
	-61	5.85	AAAGTGTtACTtTTACACcca		
BACCELL_00858	-40	4.81	tAtGTGTAttTtTgACACcca	abn3-agaL-abf3-abf4-bgaL-abn4	
<i>Bacteroides cellulosilyticus</i> WH2					
BACWH2_0841					
BACWH2_0839	-85	5.19	cAAGTGTAgTaaTACACTca	araMPRDAB-X-abf3	
	-61	5.85	AAAGTGTtACTtTTACACcca		
BACWH2_0835	-358	4.98	AAAaTGTAAttTtcTACACTTa	susCD-X-abn1	HTCS-Ara-1
BACWH2_1534	-37	4.81	tAtGTGTAttTtTgACACcca	abn3-agaL-abf3-abf4-bgaL-abn4	
<i>Bacteroides caccae</i> ATCC 43185					
BACCAC_02303					
BACCAC_02305	-83	5.64	AgAGTGTAttTGaTACACcaa	araMPRDAB	
	-59	5.85	AAAGTGTtACTtTTACACcca		
<i>Bacteroides dorei</i> DSM 17855					
BACDOR_03632					
BACDOR_03634	-121	5.38	AAAGTGTAggAaaTACACTTT	araMPRDAB	
	-58	5.79	AtAGTGTtACTtTTACACcca		
<i>Bacteroides eggerthii</i> DSM 20697					
BACEGG_01534					
BACEGG_01536	-83	5.74	AAAGTGTaTaTtTTACACcaa	araMPRDAB-X-abf3	
	-59	5.58	AAAGTGTtACTtTTACACccg		
BACEGG_00165	-47	5.77	AAgGTGTtAtTtTTACACTcT	agaL	
<i>Bacteroides faecis</i> MAJ27					
KCYDRAFT_02805					
KCYDRAFT_02807	-83	5.39	cAAGTGTAttTGaTACACcaa	araMPRDAB-X-abf3	
	-59	5.85	AAAGTGTtACTtTTACACcca		
KCYDRAFT_02813	-166	5.01	gAAGTGTAaAaagACACTTa	X-susCD-susCD-abn1	HTCS-Ara-1
<i>Bacteroides finegoldii</i> DSM 17565					
BACFIN_07055					
BACFIN_07057	-59	5.58	AAAGTGTtACTtTTACACccg	araMPRDAB-X-abf3	

Bacteroides gallinarum DSM 18171		C233DRAFT_02383			
C233DRAFT_02381	-85	5.84	AAAGTGTAtaTaTTACACTaa	araMPRDAB-X-abf3	
	-61	5.58	AAAGTGTtACTtTTACACccg		
C233DRAFT_02377	-358	5.01	AAAcTGTActTtTTACACTTa	susCD-X-abn1	HTCS-Ara-1
C233DRAFT_03386	-364	5.58	AAAGTGTtAtTtTTACACTcg	agaL	
Bacteroides intestinalis DSM 17393		BACINT_02780			
BACINT_02778	-85	5.29	cAAGTGTAgCTaaTACACTca	araMPRDAB-XX-abf3	
	-61	5.85	AAAGTGTtACTtTTACACcca		
BACINT_02771	-150	4.85	tAAtTGTAAtTtTcACACTTa	X-susCD-susCD-abn1	HTCS-Ara-1
BACINT_00345	-38	4.81	tAtGtGTAttTtTgACACcca	abn3-agaL-abf3-abf4-bgaL-abn4	
BACINT_03575	-116	4.75	tgAGTGTAttTcaaACAaTaa	abf5	
Bacteroides oleiciplenus YIT 12058		HMPREF9447_03620			
HMPREF9447_03618	-85	5.03	gtAGTGTAgCTaaTACACTca	araMPRDAB-X-abf3	
	-61	5.85	AAAGTGTtACTtTTACACcca		
HMPREF9447_03611	-153	4.74	tAAtTGTAgtTtcTACACTTa	X-susCD-susCD-abn1	HTCS-Ara-1
HMPREF9447_03041	-47	5.42	gAAGTGTtAtTtTTACACTTT	abn3-agaL-abf3-abf4-bgaL-abn4	
Bacteroides plebeius DSM 17135		BACPLE_02213			
BACPLE_02214	-44	5.83	tAAGTGTtACTtTTACACcaT	araMRDAB	
BACPLE_02216	-93	5.77	ttAGTGTtACTaaTACACTTT	araP	
BACPLE_03732	-60	4.8	tAgtTGTAtgTGaTACACcaa	abn3-abf3	
Bacteroides salanitronis DSM 18170		Bacsa_0720			
Bacsa_0722	-97	5.15	ttAGTGTAgAgaTagTACACTaa	araPMRDAB-abf3-abf2	
Bacteroides salyersiae CL02T12C01		HMPREF1071_02469			
HMPREF1071_02471	-83	5.84	AAAGTGTAAAtAtTTACACcaa	araMPRDAB	
	-59	5.85	AAAGTGTtACTtTTACACcca		
Bacteroides uniformis ATCC 8492		BACUNI_01359			
BACUNI_03327	-97	4.92	tAAGTGTAtaTGTTACACaac	abn3-agaL-abf3-X-abf4-bgaL	
	-47	5.48	AtAGTGTtAaTtTTACACccg		
BACUNI_01357	-28	4.71	AAAGTGTAcagccTACACTaa	araMPRDAB	
	-4	5.85	AAAGTGTtACTtTTACACcca		
Bacteroides vulgatus ATCC 8482		BVU_2322			
BVU_2324	-121	5.38	AAAGTGTAggAaaTACACTTT	araMPRDAB	
	-58	5.77	AtAGTGTtACTtTTACACcaa		
Bacteroides xylanisolvens XB1A		BXY_15620			
BXY_15640	-83	5.64	AgAGTGTAttTGaTACACcaa	araMPRDAB-X-abf3	
	-59	5.85	AAAGTGTtACTtTTACACcca		
BXY_15680	-153	5.2	AAgcTGTAttTtTTACACTTa	susCD-X-abn1	HTCS-Ara-1

BXY_29680	-139	5.09 AAAGTGTAtaTtTTACcCTTg	abf3-agaL
Prevotella albensis DSM 11370		K333DRAFT_01610	
K333DRAFT_01608		6.32 AAaGTGTtAAAtTTtACACcTT	araMPRDAB-abf3
Prevotella paludivivens DSM 17968		B045DRAFT_01160	
B045DRAFT_01162		6.5 AAAGTGTtAAAtTTtACACTTT	araMPRDAB-abf3
Prevotella bryantii C21a		G638DRAFT_00205	
G638DRAFT_00203		5.85 aAAGTGTtaaaaagACACTTc	araMPRDAB-abf3
Prevotella oris DSM 18711		D468DRAFT_01535	
D468DRAFT_01533		5.82 aaAGTGTtaAtTagACACTca	araMPRDAB-abf3
Prevotella copri CB7, DSM 18205		PREVCOP_04057	
PREVCOP_04055		5.76 AtAGTGTtaaaaagACACTtT	araMPRDAB-abf3
Prevotella saccharolytica JCM 17484		JCM17484DRAFT_02107	
JCM17484DRAFT_02105		5.66 aAaGTGgtAAAtTTtaCACcTa	araMPRDAB-abf3
Prevotella ruminicola 23		PRU_0422	
PRU_0424		5.65 AAGGTGTgttttttACACCTT	araMPRDAB-abf3
Prevotella dentalis DSM 3688		HMPREF9136_1913	
HMPREF9136_1911		5.61 AAAGtGTgaaaaatACcCTTT	araMPRDAB-abf3
Prevotella maculosa DSM 19339		H164DRAFT_00687	
H164DRAFT_00685		5.45 aAagTGTtAAtTaAACAtgTa	araMPRDAB-abf3
Prevotella multisaccharivorax PPPA20, DSM 17128		Premu_2666	
Premu_2668		5.08 aGaGTGTtaaaaatACACaCc	araMPRDAB-abf3

BACUNI_01357