

**Table S5. Putative PULs identified in the *B. ovatus* ATCC8384 genome**

Abbreviations and notes: extracytoplasmic function sigma factor, ECF; hybrid two-component system, HTCS.

Regulators with homology to other families of PUL-associated regulators are indicated: SusR, GntR, AraC.

The presence of a potential regulator in a different family is indicated as "unknown".

*B. ovatus* PULs that contain genes expressed *in vivo* in the ceca of mice fed a plant rich diet are indicated in the final column.

PUL number	Regulator	Gene range	CAZy annotation	<i>In vivo</i> expressed PULs (induced genes are indicated and highlighted in yellow)
1	ECF	BACOVA_00098		
		BACOVA_00101	susC-like	
		BACOVA_00102	susD-like	
		BACOVA_00103		
		BACOVA_00104	Glycoside Hydrolase Family 20	
2	none	BACOVA_00136		
		BACOVA_00137	susD-like	
		BACOVA_00138	susC-like	
3	ECF	BACOVA_00154		
		BACOVA_00155		
		BACOVA_00156	susC-like	
		BACOVA_00157	susD-like	
		BACOVA_00158		
		BACOVA_00159	Glycoside Hydrolase Family 18	
4	HTCS	BACOVA_00239		
		BACOVA_00240		
		BACOVA_00241		
		BACOVA_00242	susC-like	
		BACOVA_00243	susD-like	
		BACOVA_00244	susC-like	
		BACOVA_00245	susD-like	
		BACOVA_00246		
		BACOVA_00247	Glycoside Hydrolase Family 10	
		BACOVA_00248	Polysaccharide Lyase Family 9	
BACOVA_00249	Glycoside Hydrolase Family 115			

5 none	BACOVA_00250	Glycoside Hydrolase Family 2
	BACOVA_00264	
	BACOVA_00265	susC-like
6 ECF	BACOVA_00266	susD-like
	BACOVA_00267	
	BACOVA_00272	
	BACOVA_00273	
	BACOVA_00274	
	BACOVA_00275	
	BACOVA_00276	
	BACOVA_00277	
	BACOVA_00278	
	BACOVA_00279	
	BACOVA_00280	susD-like
7 none	BACOVA_00281	susC-like
	BACOVA_00282	
	BACOVA_00283	
	BACOVA_00284	
	BACOVA_00298	
	BACOVA_00299	
	BACOVA_00300	
	BACOVA_00301	
	BACOVA_00302	
	BACOVA_00303	
	BACOVA_00304	
	BACOVA_00305	
	BACOVA_00306	
	BACOVA_00307	
	BACOVA_00308	
	BACOVA_00309	susD-like
	BACOVA_00310	susC-like
8 ECF	BACOVA_00425	
	BACOVA_00426	Glycoside Hydrolase Family 3
	BACOVA_00427	Glycoside Hydrolase Family 3
	BACOVA_00428	Glycoside Hydrolase Family 3
	BACOVA_00429	

	BACOVA_00430		
	BACOVA_00431		
	BACOVA_00432		
	BACOVA_00433	susD-like	
	BACOVA_00434	susC-like	
	BACOVA_00435		
	BACOVA_00436		
9 none	BACOVA_00556		
	BACOVA_00557	susD-like	bacova_00557-60 are induced <i>in vivo</i> in plant fed mice
	BACOVA_00558	susC-like	
	BACOVA_00559	Glycoside Hydrolase Family 20- Carbohydrate Binding Module 32	
	BACOVA_00560	Glycoside Hydrolase Family 20- Carbohydrate Binding Module 32	
	BACOVA_00561		
	BACOVA_00562	Glycoside Hydrolase Family 2	
	BACOVA_00563	Glycoside Hydrolase Family 33	
10 ECF	BACOVA_00619		
	BACOVA_00620		
	BACOVA_00621	susC-like	
	BACOVA_00622	susD-like	
	BACOVA_00623	susC-like	
	BACOVA_00624	susD-like	
	BACOVA_00625	Glycoside Hydrolase Family 16-	
	BACOVA_00626	Glycoside Hydrolase Family 3	
	BACOVA_00627		
11 none	BACOVA_00653		
	BACOVA_00654		
	BACOVA_00655		
	BACOVA_00656		
	BACOVA_00657	susC-like	
	BACOVA_00658	susD-like	
	BACOVA_00659		
	BACOVA_00660		

12	BACOVA_00661	
	BACOVA_00681	susD-like
	BACOVA_00682	susC-like
13 ECF	BACOVA_00832	
	BACOVA_00833	
	BACOVA_00834	
	BACOVA_00835	
	BACOVA_00836	
	BACOVA_00837	Glycoside Hydrolase Family 2
	BACOVA_00838	
	BACOVA_00839	susD-like
	BACOVA_00840	susC-like
	BACOVA_00841	
	BACOVA_00842	
14 none	BACOVA_00865	susD-like
	BACOVA_00866	susC-like
15 ECF	BACOVA_00883	
	BACOVA_00884	
	BACOVA_00885	susC-like
	BACOVA_00886	susD-like
	BACOVA_00887	
	BACOVA_00888	
	BACOVA_00889	
	BACOVA_00890	
	BACOVA_00891	
	BACOVA_00892	
16 ECF	BACOVA_00915	
	BACOVA_00916	
	BACOVA_00917	
	BACOVA_00918	susD-like
	BACOVA_00919	susC-like
	BACOVA_00920	
	BACOVA_00921	
	BACOVA_00922	
	BACOVA_00923	
17 SusR	BACOVA_00932	

	BACOVA_00933	
	BACOVA_00934	susC-like
	BACOVA_00935	susD-like
	BACOVA_00936	
	BACOVA_00937	
	BACOVA_00938	
	BACOVA_00939	
18 SusR	BACOVA_00940	Glycoside Hydrolase Family 20
	BACOVA_00941	
	BACOVA_00942	susC-like
	BACOVA_00943	susD-like
	BACOVA_00944	Glycoside Hydrolase Family 30
	BACOVA_00945	
19 HTCS	BACOVA_00946	Glycoside Hydrolase Family 3
	BACOVA_00974	
	BACOVA_00975	
	BACOVA_00976	
	BACOVA_00977	Glycoside Hydrolase Family 5- Carbohydrate Binding Module 35
	BACOVA_00978	susC-like
	BACOVA_00979	susD-like
	BACOVA_00980	Carbohydrate Esterase 12- Carbohydrate Esterase 4
	BACOVA_00981	Glycoside Hydrolase Family 43
20 ECF	BACOVA_00982	Glycoside Hydrolase Family 115
	BACOVA_001132	
	BACOVA_001133	
	BACOVA_001134	
	BACOVA_001135	
	BACOVA_001136	
	BACOVA_001137	
	BACOVA_001138	
	BACOVA_001139	
21 none	BACOVA_001198	
	BACOVA_001199	
22 HTCS	BACOVA_01213	

	BACOVA_01214	Glycoside Hydrolase Family 31
	BACOVA_01215	Glycoside Hydrolase Family 76
	BACOVA_01216	Carbohydrate Binding Module 32
	BACOVA_01217	susC-like
	BACOVA_01218	susD-like
	BACOVA_01219	
	BACOVA_01220	
	BACOVA_01221	Glycoside Hydrolase Family 31
	BACOVA_01222	Glycoside Hydrolase Family 92
	BACOVA_01223	Glycoside Hydrolase Family 92
23 none	BACOVA_01224	
	BACOVA_01225	
	BACOVA_01226	
	BACOVA_01227	susD-like
	BACOVA_01228	susC-like
24 ECF	BACOVA_01243	
	BACOVA_01244	
	BACOVA_01245	
	BACOVA_01246	
	BACOVA_01247	susD-like
	BACOVA_01248	susC-like
	BACOVA_01249	
	BACOVA_01250	
	BACOVA_01251	
25 HTCS	BACOVA_01291	
	BACOVA_01292	Glycoside Hydrolase Family 88
	BACOVA_01293	Glycoside Hydrolase Family 43
	BACOVA_01294	
	BACOVA_01295	
	BACOVA_01296	susD-like
	BACOVA_01297	susC-like
	BACOVA_01298	
	BACOVA_01299	
	BACOVA_01300	
	BACOVA_01301	
26 HTCS	BACOVA_01304	Glycoside Hydrolase Family 2

	BACOVA_01305	
	BACOVA_01306	
	BACOVA_01307	susD-like
	BACOVA_01308	susC-like
	BACOVA_01309	
	BACOVA_01310	
	BACOVA_01311	
27 HTCS	BACOVA_01312	Polysaccharide Lyase Family 15
	BACOVA_01313	
	BACOVA_01314	
	BACOVA_01315	Glycoside Hydrolase Family 28
	BACOVA_01316	
	BACOVA_01317	Glycoside Hydrolase Family 30
	BACOVA_01318	
	BACOVA_01319	
	BACOVA_01320	susD-like
	BACOVA_01321	susC-like
	BACOVA_01322	
	BACOVA_01323	
	BACOVA_01324	
28 none	BACOVA_01382	
	BACOVA_01383	
	BACOVA_01384	susD-like
	BACOVA_01386	susC-like
29 none	BACOVA_01405	susC-like
	BACOVA_01406	susD-like
30 ECF	BACOVA_01604	
	BACOVA_01605	
	BACOVA_01606	susC-like
	BACOVA_01607	susD-like
	BACOVA_01608	
	BACOVA_01609	Glycoside Hydrolase Family 27
	BACOVA_01610	Carbohydrate Binding Module 35
	BACOVA_01611	
31 HTCS	BACOVA_01661	Glycoside Hydrolase Family 109
	BACOVA_01662	

	BACOVA_01663		
	BACOVA_01664		
	BACOVA_01665		
	BACOVA_01666	susD-like	
	BACOVA_01667	susC-like	
	BACOVA_01668		
	BACOVA_01669		
	BACOVA_01670		
	BACOVA_01671	Glycoside Hydrolase Family 2	
	BACOVA_01672	Glycoside Hydrolase Family 88	
	BACOVA_01673		
	BACOVA_01674		
	BACOVA_01675		
32 ECF	BACOVA_01682		
	BACOVA_01683		
	BACOVA_01684	susC-like	
	BACOVA_01685	susD-like	
	BACOVA_01686		
	BACOVA_01687	Glycoside Hydrolase Family 88- Glycoside Hydrolase Family 92	
33 none	BACOVA_01792		bacova_01792-1803 are induced <i>in vivo</i> in plant fed mice
	BACOVA_01793		
	BACOVA_01794		
	BACOVA_01795		
	BACOVA_01796	susC-like	
	BACOVA_01797	susD-like	
	BACOVA_01798		
	BACOVA_01799		
	BACOVA_01800		
	BACOVA_01801		
	BACOVA_01802	Carbohydrate Esterase 6	
	BACOVA_01803		
34 none	BACOVA_01804		
	BACOVA_01805		
	BACOVA_01806		



bacova\_01807-19 are induced *in vivo* in  
plant fed mice

BACOVA\_01807  
BACOVA\_01808 Carbohydrate Esterase 6  
BACOVA\_01809  
BACOVA\_01810  
BACOVA\_01811  
BACOVA\_01812  
BACOVA\_01813  
BACOVA\_01814 susD-like  
BACOVA\_01815 susC-like  
BACOVA\_01816  
BACOVA\_01817  
BACOVA\_01818  
BACOVA\_01819

35 HTCS

BACOVA\_01822  
BACOVA\_01823  
BACOVA\_01824  
BACOVA\_01825 susC-like  
BACOVA\_01826 susD-like  
BACOVA\_01827  
BACOVA\_01828  
BACOVA\_01829  
BACOVA\_01830  
BACOVA\_01831  
BACOVA\_01832 susC-like  
BACOVA\_01833 susD-like  
BACOVA\_01834 susC-like  
BACOVA\_01835 susD-like  
BACOVA\_01836  
BACOVA\_01837  
BACOVA\_01838  
BACOVA\_01839  
BACOVA\_01840  
BACOVA\_01841  
BACOVA\_01842  
BACOVA\_01843

36 HTCS	BACOVA_01844	
	BACOVA_01967	Polysaccharide Lyase Family 8
	BACOVA_01968	
	BACOVA_01969	Glycoside Hydrolase Family 88
	BACOVA_01996	
	BACOVA_01997	
	BACOVA_01998	susC-like
	BACOVA_01999	susD-like
	BACOVA_02000	
	BACOVA_02001	
37 none	BACOVA_02002	
	BACOVA_01971	Glycoside Hydrolase Family 2
	BACOVA_01972	
	BACOVA_01973	Glycoside Hydrolase Family 43
	BACOVA_01974	susD-like
	BACOVA_01975	susC-like
38 none	BACOVA_01976	
	BACOVA_01986	
	BACOVA_01987	susC-like
	BACOVA_01988	susD-like
39 ECF	BACOVA_01989	susC-like
	BACOVA_02036	
40 LacI	BACOVA_02037	
	BACOVA_02038	Glycoside Hydrolase Family 89
	BACOVA_02039	
	BACOVA_02040	
	BACOVA_02041	
	BACOVA_02042	Glycoside Hydrolase Family 89
	BACOVA_02043	
	BACOVA_02044	susD-like
	BACOVA_02045	susC-like
	BACOVA_02046	
	BACOVA_02049	
	BACOVA_02050	

BACOVA_02051	susC-like
--------------	-----------

bacova\_02051-59 are induced *in vivo* in plant fed mice

	BACOVA_02052	susD-like
	BACOVA_02053	
	BACOVA_02054	
	BACOVA_02055	
	BACOVA_02056	Carbohydrate Esterase 1
	BACOVA_02057	Carbohydrate Esterase 1
	BACOVA_02058	
	BACOVA_02059	
41 HTCS	BACOVA_02060	
	BACOVA_02061	Glycoside Hydrolase Family 18
	BACOVA_02062	
	BACOVA_02063	susD-like
	BACOVA_02064	susC-like
	BACOVA_02065	
42 HTCS	BACOVA_02087	
	BACOVA_02088	
	BACOVA_02089	
	BACOVA_02090	
	BACOVA_02091	Glycoside Hydrolase Family 36
	BACOVA_02092	Glycoside Hydrolase Family 26
	BACOVA_02093	Glycoside Hydrolase Family 26
	BACOVA_02094	
	BACOVA_02095	susD-like
	BACOVA_02096	susC-like
	BACOVA_02097	
43 ECF	BACOVA_02102	
	BACOVA_02103	
	BACOVA_02104	Glycoside Hydrolase Family 2
	BACOVA_02105	Carbohydrate Esterase 7
	BACOVA_02106	Glycoside Hydrolase Family 36
	BACOVA_02107	
	BACOVA_02108	Glycoside Hydrolase Family 105
	BACOVA_02109	Glycoside Hydrolase Family 3
	BACOVA_02110	Glycoside Hydrolase Family 3
	BACOVA_02111	
	BACOVA_02112	

44 HTCS	BACOVA_02113		
	BACOVA_02114		
	BACOVA_02115	susC-like	
	BACOVA_02116	susD-like	
	BACOVA_02117		
	BACOVA_02156		
	BACOVA_02157		
	BACOVA_02158	Glycoside Hydrolase Family 105	
	BACOVA_02159	Glycoside Hydrolase Family 105	
	BACOVA_02160	Glycoside Hydrolase Family 2	
	BACOVA_02161		
	BACOVA_02162	Glycoside Hydrolase Family 2	
	BACOVA_02163		
	BACOVA_02164		
	BACOVA_02165		
	BACOVA_02166	susD-like	
	BACOVA_02167	susC-like	
BACOVA_02168			
BACOVA_02169	Glycoside Hydrolase Family 43		
BACOVA_02170			
BACOVA_02171	Glycoside Hydrolase Family 105		
BACOVA_02172			
BACOVA_02173	Glycoside Hydrolase Family 115		
	BACOVA_02174	susD-like	bacova_02174-75 are induced <i>in vivo</i> in plant fed mice
	BACOVA_02175	susC-like	
45 ECF	BACOVA_02176		
	BACOVA_02177		
	BACOVA_02178	Glycoside Hydrolase Family 109	
	BACOVA_02179		
	BACOVA_02180	Glycoside Hydrolase Family 109	
	BACOVA_02181	Glycoside Hydrolase Family 43	
	BACOVA_02182		
	BACOVA_02183		
	BACOVA_02488		
	BACOVA_02489		

	BACOVA_02490	susC-like	
	BACOVA_02491	susD-like	
	BACOVA_02492		
	BACOVA_02493	Glycoside Hydrolase Family 2	
46 none	BACOVA_02626	Glycoside Hydrolase Family 5	bacova_02626-36 are induced <i>in vivo</i> in plant fed mice
	BACOVA_02627	susC-like	
	BACOVA_02628	susD-like	
	BACOVA_02629		
	BACOVA_02630	Glycoside Hydrolase Family 5	
	BACOVA_02631	Glycoside Hydrolase Family 2	
	BACOVA_02632	Glycoside Hydrolase Family 5	
	BACOVA_02633		
	BACOVA_02634		
	BACOVA_02635		
	BACOVA_02636	Glycoside Hydrolase Family 78	
	BACOVA_02637		
	BACOVA_02638	Carbohydrate Esterase 6-Carbohydrate Esterase 6	
47 HTCS	BACOVA_02639		
	BACOVA_02640		
	BACOVA_02641		
	BACOVA_02642		
	BACOVA_02643		
	BACOVA_02644	Glycoside Hydrolase Family 3	
	BACOVA_02645	Glycoside Hydrolase Family 2	
	BACOVA_02646	Glycoside Hydrolase Family 31	
	BACOVA_02647		
	BACOVA_02648		
	BACOVA_02649	Glycoside Hydrolase Family 9	
	BACOVA_02650		
	BACOVA_02651	susD-like	
	BACOVA_02652	susC-like	
	BACOVA_02653	Glycoside Hydrolase Family 5	
	BACOVA_02654	Glycoside Hydrolase Family 43	
	BACOVA_02655		

	BACOVA_02656	Glycoside Hydrolase Family 43
	BACOVA_02657	
	BACOVA_02658	
	BACOVA_02659	Glycoside Hydrolase Family 3
48 HTCS	BACOVA_02661	Glycoside Hydrolase Family 5
	BACOVA_02662	Glycoside Hydrolase Family 43
	BACOVA_02663	
	BACOVA_02664	susD-like
	BACOVA_02665	susC-like
	BACOVA_02666	
	BACOVA_02667	
49 HTCS	BACOVA_02692	Glycoside Hydrolase Family 2
	BACOVA_02693	Carbohydrate Esterase 12
	BACOVA_02694	
	BACOVA_02695	
	BACOVA_02696	
	BACOVA_02697	
	BACOVA_02698	
	BACOVA_02699	Glycoside Hydrolase Family 106
	BACOVA_02700	
	BACOVA_02701	
	BACOVA_02702	Polysaccharide Lyase Family 11
	BACOVA_02703	susD-like
	BACOVA_02704	susC-like
	BACOVA_02705	
	BACOVA_02706	
	BACOVA_02707	susD-like
	BACOVA_02708	susC-like
	BACOVA_02709	
	BACOVA_02710	Glycoside Hydrolase Family 2
	BACOVA_02711	Glycoside Hydrolase Family 88
	BACOVA_02712	
	BACOVA_02713	
	BACOVA_02714	Glycoside Hydrolase Family 28
	BACOVA_02715	Glycoside Hydrolase Family 95
	BACOVA_02716	

50 ECF	BACOVA_02717	Glycoside Hydrolase Family 2
	BACOVA_02718	Glycoside Hydrolase Family 105
	BACOVA_02719	Polysaccharide Lyase Family 11
	BACOVA_02727	
	BACOVA_02728	
	BACOVA_02729	susC-like
	BACOVA_02730	susD-like
	BACOVA_02731	
	BACOVA_02732	
	BACOVA_02733	
51 HTCS	BACOVA_02734	
	BACOVA_02735	
	BACOVA_02738	Glycoside Hydrolase Family 3
	BACOVA_02739	
	BACOVA_02740	
	BACOVA_02741	Glycoside Hydrolase Family 16
	BACOVA_02742	susC-like
	BACOVA_02743	susD-like
	BACOVA_02744	
	BACOVA_02745	Glycoside Hydrolase Family 3
52 HTCS	BACOVA_02746	
	BACOVA_02747	
	BACOVA_02748	Carbohydrate Esterase 6
	BACOVA_02749	
	BACOVA_02750	
	BACOVA_02751	susD-like
	BACOVA_02752	susC-like
	BACOVA_02753	Glycoside Hydrolase Family 3
	BACOVA_02754	
	BACOVA_02755	Glycoside Hydrolase Family 36
53 SusR	BACOVA_02756	
	BACOVA_02757	
	BACOVA_02782	
	BACOVA_02783	Glycoside Hydrolase Family 31
	BACOVA_02784	Glycoside Hydrolase Family 66
	BACOVA_02785	

	BACOVA_02786	susD-like
	BACOVA_02787	susC-like
	BACOVA_02788	
54 HTCS	BACOVA_02795	Glycoside Hydrolase Family 2
	BACOVA_02796	
	BACOVA_02797	Glycoside Hydrolase Family 43
	BACOVA_02798	
	BACOVA_02799	Glycoside Hydrolase Family 51
	BACOVA_02800	
	BACOVA_02801	
	BACOVA_02802	
	BACOVA_02803	susC-like
	BACOVA_02804	susD-like
	BACOVA_02805	susC-like
	BACOVA_02806	Glycoside Hydrolase Family 43
	BACOVA_02807	
	BACOVA_02808	
	BACOVA_02809	
	BACOVA_02810	
	BACOVA_02811	
55 unknown	BACOVA_02816	
	BACOVA_02817	susC-like
	BACOVA_02818	susD-like
	BACOVA_02819	
56 ECF	BACOVA_02845	
	BACOVA_02846	
	BACOVA_02847	susC-like
	BACOVA_02848	susD-like
	BACOVA_02849	
	BACOVA_02850	
	BACOVA_02851	
	BACOVA_02852	
	BACOVA_02853	
57 HTCS	BACOVA_02857	
	BACOVA_02858	Carbohydrate Esterase 6
	BACOVA_02859	susC-like



	BACOVA_02860	susD-like
	BACOVA_02861	Polysaccharide Lyase Family 15
	BACOVA_02862	
	BACOVA_02863	Glycoside Hydrolase Family 88
	BACOVA_02864	
	BACOVA_02865	
58 HTCS	BACOVA_02881	
	BACOVA_02882	
	BACOVA_02883	susD-like
	BACOVA_02884	susC-like
	BACOVA_02885	
	BACOVA_02886	
	BACOVA_02887	
59 ECF	BACOVA_02943	
	BACOVA_02944	
	BACOVA_02945	susC-like
	BACOVA_02946	susD-like
	BACOVA_02947	
	BACOVA_02948	
	BACOVA_02949	Glycoside Hydrolase Family 5
	BACOVA_02950	Glycoside Hydrolase Family 20
60 none	BACOVA_02951	
	BACOVA_02952	
	BACOVA_02953	
	BACOVA_02954	susC-like
	BACOVA_02955	susD-like
	BACOVA_02956	Glycoside Hydrolase Family 43
	BACOVA_02957	
	BACOVA_02958	Glycoside Hydrolase Family 3
	BACOVA_02959	Glycoside Hydrolase Family 97
61 unknown	BACOVA_03062	susD-like
	BACOVA_03063	susC-like
62 unknown	BACOVA_03078	susD-like
	BACOVA_03079	susC-like
	BACOVA_03080	
	BACOVA_03081	

63 HTCS	BACOVA_03082	susC-like
	BACOVA_03083	susD-like
	BACOVA_03096	
	BACOVA_03097	susC-like
	BACOVA_03098	susD-like
	BACOVA_03099	
64 ECF	BACOVA_03100	Glycoside Hydrolase Family 2
	BACOVA_03101	Glycoside Hydrolase Family 50
	BACOVA_03102	Glycoside Hydrolase Family 50
	BACOVA_03118	Glycoside Hydrolase Family 106
	BACOVA_03119	
	BACOVA_03120	Glycoside Hydrolase Family 78
	BACOVA_03121	Glycoside Hydrolase Family 20
	BACOVA_03122	
	BACOVA_03123	
	BACOVA_03124	
	BACOVA_03125	susD-like
	BACOVA_03126	
	BACOVA_03127	susC-like
BACOVA_03128		
BACOVA_03129		
65 unknown	BACOVA_03153	susD-like
	BACOVA_03154	susC-like
66 unknown	BACOVA_03171	
	BACOVA_03172	
	BACOVA_03173	
	BACOVA_03174	
	BACOVA_03175	
	BACOVA_03176	
67 GntR	BACOVA_03251	
	BACOVA_03252	
	BACOVA_03253	susC-like
	BACOVA_03254	susD-like
	BACOVA_03255	
	BACOVA_03256	Glycoside Hydrolase Family 76

bacova\_03153-54 are induced *in vivo* in plant fed mice

	BACOVA_03257	Glycoside Hydrolase Family 76
	BACOVA_03258	Glycoside Hydrolase Family 92
68 ECF	BACOVA_03259	
	BACOVA_03283	
	BACOVA_03284	
	BACOVA_03285	
	BACOVA_03286	
	BACOVA_03287	susC-like
	BACOVA_03288	susD-like
69 unknown	BACOVA_03289	
	BACOVA_03317	
	BACOVA_03318	
	BACOVA_03319	
	BACOVA_03320	susC-like
	BACOVA_03321	susD-like
70 ECF	BACOVA_03322	
	BACOVA_03337	
	BACOVA_03338	
	BACOVA_03339	susC-like
	BACOVA_03340	susD-like
	BACOVA_03341	Glycoside Hydrolase Family 76
	BACOVA_03342	
	BACOVA_03343	
	BACOVA_03344	Glycoside Hydrolase Family 76
	BACOVA_03345	
	BACOVA_03346	Glycoside Hydrolase Family 92
	BACOVA_03347	Glycoside Hydrolase Family 125

71 unknown	BACOVA_03379		bacova_03379-82 are induced <i>in vivo</i> in plant fed mice
	BACOVA_03380	Glycoside Hydrolase Family 3	
	BACOVA_03381	susD-like	
	BACOVA_03382	susC-like	

72 AraC	BACOVA_03386
	BACOVA_03387
	BACOVA_03388
	BACOVA_03389

73 HTCS

BACOVA_03390	Glycoside Hydrolase Family 109
BACOVA_03391	
BACOVA_03392	Glycoside Hydrolase Family 109
BACOVA_03393	
BACOVA_03394	
BACOVA_03395	
BACOVA_03396	
BACOVA_03397	Carbohydrate Esterase 9
BACOVA_03398	
BACOVA_03399	Glycoside Hydrolase Family 3
BACOVA_03400	Glycoside Hydrolase Family 26
BACOVA_03401	
BACOVA_03402	susD-like
BACOVA_03403	susC-like
BACOVA_03404	
BACOVA_03405	
BACOVA_03406	
BACOVA_03417	Glycoside Hydrolase Family 43
BACOVA_03418	
BACOVA_03419	Glycoside Hydrolase Family 3
BACOVA_03420	
BACOVA_03421	Glycoside Hydrolase Family 43
BACOVA_03422	Glycoside Hydrolase Family 31
BACOVA_03423	Glycoside Hydrolase Family 97
	Glycoside Hydrolase Family 43-
BACOVA_03424	Carbohydrate Binding Module 6
BACOVA_03425	Glycoside Hydrolase Family 43
BACOVA_03426	susC-like
BACOVA_03427	susD-like
BACOVA_03428	susC-like
BACOVA_03429	susD-like
BACOVA_03430	
BACOVA_03431	Glycoside Hydrolase Family 10
BACOVA_03432	Glycoside Hydrolase Family 30
	Glycoside Hydrolase Family 98-
BACOVA_03433	Carbohydrate Binding Module 35

	BACOVA_03434	Glycoside Hydrolase Family 115	
	BACOVA_03435	Carbohydrate Esterase 6-Carbohydrate Esterase 1	
	BACOVA_03436	Glycoside Hydrolase Family 43-	
	BACOVA_03437	Carbohydrate Binding Module 6	
	BACOVA_03438		
	BACOVA_03439	Glycoside Hydrolase Family 95	
	BACOVA_03440		
	BACOVA_03441		
	BACOVA_03442		
	BACOVA_03443	susC-like	
	BACOVA_03444	susD-like	
	BACOVA_03445		
	BACOVA_03446		
	BACOVA_03447		
	BACOVA_03448		
	BACOVA_03449	Glycoside Hydrolase Family 115	
	BACOVA_03450	Carbohydrate Esterase 6	
74	BACOVA_03466		
	BACOVA_03467		
	BACOVA_03468		
	BACOVA_03469		
75 HTCS	BACOVA_03504		
	BACOVA_03505		
	BACOVA_03506	susC-like	
	BACOVA_03507	susD-like	
	BACOVA_03508	Glycoside Hydrolase Family 16	
	BACOVA_03509		
	BACOVA_03510		
	BACOVA_03511	Glycoside Hydrolase Family 2	
76 SusR	BACOVA_03514	Glycoside Hydrolase Family 13	bacova_03514-20 are induced <i>in vivo</i> in plant fed mice This PUL is homologous to <i>B. thetaiotaomicron</i> starch utilization PUL.
	BACOVA_03515		
	BACOVA_03516		

	BACOVA_03517	susD-like	
	BACOVA_03518	susC-like	
	BACOVA_03519	Glycoside Hydrolase Family 97	
	BACOVA_03520	Glycoside Hydrolase Family 13	
77 ECF	BACOVA_03521		
	BACOVA_03554		
	BACOVA_03555		
	BACOVA_03556	susC-like	bacova_03556-59 are induced <i>in vivo</i> in plant fed mice This PUL is homologous to a <i>B. thetaiotaomicron</i> PUL associated with host glycan utilization <i>in vitro</i> and <i>in vivo</i> .
	BACOVA_03557	susD-like	
	BACOVA_03558 BACOVA_03559	Glycoside Hydrolase Family 18	
78 HTCS	BACOVA_03562		
	BACOVA_03563		
	BACOVA_03564		
	BACOVA_03565	susC-like	
	BACOVA_03566	susD-like	
	BACOVA_03567		
	BACOVA_03568		
	BACOVA_03569	Carbohydrate Esterase 7	
79 none	BACOVA_03576	Carbohydrate Esterase 8	
	BACOVA_03577	Glycoside Hydrolase Family 95	
	BACOVA_03578	susC-like	
	BACOVA_03579	susD-like	
	BACOVA_03580		
	BACOVA_03581	Carbohydrate Esterase 8	
	BACOVA_03582		
80 ECF	BACOVA_03594		
	BACOVA_03595		
	BACOVA_03596	susC-like	
	BACOVA_03597	susD-like	
	BACOVA_03598		
	BACOVA_03599		
81 HTCS	BACOVA_03607		

	BACOVA_03608	susC-like
	BACOVA_03609	susD-like
	BACOVA_03610	
	BACOVA_03611	
	BACOVA_03612	
	BACOVA_03613	Glycoside Hydrolase Family 50
	BACOVA_03614	
	BACOVA_03615	
	BACOVA_03616	Glycoside Hydrolase Family 31
	BACOVA_03617	Glycoside Hydrolase Family 2
	BACOVA_03618	Carbohydrate Esterase 6
82 HTCS	BACOVA_03623	Glycoside Hydrolase Family 92
	BACOVA_03624	
	BACOVA_03625	
	BACOVA_03626	Glycoside Hydrolase Family 125
	BACOVA_03627	Glycoside Hydrolase Family 76
	BACOVA_03628	
	BACOVA_03629	Glycoside Hydrolase Family 92
	BACOVA_03630	
	BACOVA_03631	
	BACOVA_03632	
	BACOVA_03633	Glycoside Hydrolase Family 76
	BACOVA_03634	susC-like
	BACOVA_03635	susD-like
	BACOVA_03636	
83 HTCS	BACOVA_03638	
	BACOVA_03639	Glycoside Hydrolase Family 36
	BACOVA_03640	Glycoside Hydrolase Family 29
	BACOVA_03641	
	BACOVA_03642	
	BACOVA_03643	susD-like
	BACOVA_03644	susC-like
	BACOVA_03645	
	BACOVA_03646	
84 ECF	BACOVA_03855	
	BACOVA_03856	

	BACOVA_03857	susC-like (frameshift w/ _03858)	
	BACOVA_03858	susC-like	
	BACOVA_03859	susD-like	
	BACOVA_03860		
	BACOVA_03861		
	BACOVA_03862	Glycoside Hydrolase Family 18	
85 ECF	BACOVA_04092		
	BACOVA_04093		
	BACOVA_04094		bacova_04094-99 and bacova_04103-111 are induced <i>in vivo</i> in plant fed mice. This PUL is homologous to a <i>B. thetaiotaomicron</i> PUL associated with host glycan utilization <i>in vitro</i> and <i>in vivo</i> .
	BACOVA_04095		
	BACOVA_04096		
	BACOVA_04097	Glycoside Hydrolase Family 18	
	BACOVA_04098	susD-like	
	BACOVA_04099	susC-like	
	BACOVA_04100		
	BACOVA_04101		
	BACOVA_04102		
	BACOVA_04103	susC-like	(part of above PUL)
	BACOVA_04104	susD-like	
	BACOVA_04105	Glycoside Hydrolase Family 18	
	BACOVA_04106		
	BACOVA_04107		
	BACOVA_04108	Carbohydrate Binding Module 32	
	BACOVA_04109		
	BACOVA_04110		
	BACOVA_04111	Glycoside Hydrolase Family 92	
86 HTCS	BACOVA_04114		
	BACOVA_04115	susC-like	
	BACOVA_04116	susD-like	
	BACOVA_04117	Polysaccharide Lyase Family 1	
	BACOVA_04118		
	BACOVA_04119	Glycoside Hydrolase Family 43	
	BACOVA_04120		



	BACOVA_04121	Glycoside Hydrolase Family 78
	BACOVA_04122	Glycoside Hydrolase Family 28
	BACOVA_04123	
	BACOVA_04124	
	BACOVA_04125	
	BACOVA_04126	Glycoside Hydrolase Family 78-
	BACOVA_04127	Glycoside Hydrolase Family 33
	BACOVA_04128	
	BACOVA_04129	Glycoside Hydrolase Family 105
	BACOVA_04130	Glycoside Hydrolase Family 95
	BACOVA_04131	
	BACOVA_04132	
87 ECF	BACOVA_04146	
	BACOVA_04147	
	BACOVA_04148	susD-like
	BACOVA_04149	susC-like
	BACOVA_04150	
	BACOVA_04151	
88 GntR	BACOVA_04181	Glycoside Hydrolase Family 3
	BACOVA_04182	
	BACOVA_04183	
	BACOVA_04184	
	BACOVA_04185	susD-like
	BACOVA_04186	susC-like
	BACOVA_04187	
	BACOVA_04188	Glycoside Hydrolase Family 33
	BACOVA_04189	
	BACOVA_04190	
	BACOVA_04191	
89 unknown	BACOVA_04248	
	BACOVA_04249	
	BACOVA_04250	
	BACOVA_04251	
	BACOVA_04252	susD-like
	BACOVA_04253	susC-like

90 unknown	BACOVA_04292	
	BACOVA_04293	susC-like
	BACOVA_04294	susD-like
91 HTCS	BACOVA_04356	
	BACOVA_04357	Glycoside Hydrolase Family 29-
	BACOVA_04358	Carbohydrate Binding Module 32
	BACOVA_04359	Glycoside Hydrolase Family 2
	BACOVA_04360	Glycoside Hydrolase Family 20
	BACOVA_04361	susD-like
	BACOVA_04362	susC-like
	BACOVA_04363	
	BACOVA_04364	
	BACOVA_04365	
	BACOVA_04366	
	BACOVA_04367	
	BACOVA_04368	
92 ECF	BACOVA_04376	
	BACOVA_04377	susD-like
	BACOVA_04378	susC-like
	BACOVA_04379	
93 HTCS	BACOVA_04380	
	BACOVA_04385	Glycoside Hydrolase Family 67
	BACOVA_04386	Glycoside Hydrolase Family 43
	BACOVA_04387	Glycoside Hydrolase Family 10
	BACOVA_04388	
	BACOVA_04389	Carbohydrate Esterase6-Carbohydrate Esterase6
	BACOVA_04390	Glycoside Hydrolase Family 10-
	BACOVA_04391	Carbohydrate Binding Module 22
	BACOVA_04392	susD-like
	BACOVA_04393	susC-like
	BACOVA_04394	
94 ECF	BACOVA_04399	
	BACOVA_04400	

	BACOVA_04401		
	BACOVA_04402	susC-like	
	BACOVA_04403	susD-like	
	BACOVA_04404		
	BACOVA_04405		
	BACOVA_04406		
95 unknown	BACOVA_04427	susD-like	
	BACOVA_04428	susC-like	
96 HTCS	BACOVA_04477	Polysaccharide Lyase Family 12	
	BACOVA_04478	susD-like	
	BACOVA_04479	susC-like	
	BACOVA_04480	susD-like	
	BACOVA_04481	susC-like	
	BACOVA_04482	Glycoside Hydrolase Family 29	
	BACOVA_04483		
	BACOVA_04484	Glycoside Hydrolase Family 88	
97 HTCS	BACOVA_04496		
	BACOVA_04497		
	BACOVA_04498		
	BACOVA_04499		
	BACOVA_04500		bacova_04497 and bacova_04500-07 are induced <i>in vivo</i> . This PUL is homologous to <i>B. thetaiotaomicron</i> fructan utilization PUL, but likely has specificity for inulin rather than levan.
	BACOVA_04501	Glycoside Hydrolase Family 32	
	BACOVA_04502	Glycoside Hydrolase Family 91	
	BACOVA_04503	Glycoside Hydrolase Family 91	
	BACOVA_04504	susD-like	
	BACOVA_04505	susC-like	
	BACOVA_04506		
	BACOVA_04507	Glycoside Hydrolase Family 32	
98 ECF	BACOVA_04799		bacova_04799-4811 are induced <i>in vivo</i> in plant fed mice This PUL is homologous to a <i>B. thetaiotaomicron</i> PUL
	BACOVA_04800	Glycoside Hydrolase Family 18	

associated with host glycan utilization *in vitro* and *in vivo*.

	BACOVA_04801	
	BACOVA_04802	Glycoside Hydrolase Family 18
	BACOVA_04803	susD-like
	BACOVA_04804	susC-like
	BACOVA_04805	
	BACOVA_04806	
	BACOVA_04807	Glycoside Hydrolase Family 18
	BACOVA_04808	
	BACOVA_04809	Glycoside Hydrolase Family 92
	BACOVA_04810	Glycoside Hydrolase Family 92
	BACOVA_04811	
	BACOVA_04812	
99 SusR	BACOVA_04813	Glycoside Hydrolase Family 92
	BACOVA_04864	
	BACOVA_04865	
	BACOVA_04866	
	BACOVA_04867	
	BACOVA_04868	Glycoside Hydrolase Family 38
	BACOVA_04869	Glycoside Hydrolase Family 92
		Glycoside Hydrolase Family 2-
		Carbohydrate Binding Module 32
	BACOVA_04870	
	BACOVA_04871	
	BACOVA_04872	Glycoside Hydrolase Family 78
	BACOVA_04873	
	BACOVA_04874	Glycoside Hydrolase Family 31
	BACOVA_04875	
	BACOVA_04876	susC-like
	BACOVA_04877	susD-like
	BACOVA_04878	susC-like
	BACOVA_04879	
	BACOVA_04880	
	BACOVA_04881	
	BACOVA_04882	
	BACOVA_04883	Glycoside Hydrolase Family 92
	BACOVA_04884	Glycoside Hydrolase Family 92

100 HTCS

BACOVA_04900	Glycoside Hydrolase Family 105
BACOVA_04901	Carbohydrate Esterase8
	Carbohydrate Esterase12-
BACOVA_04902	Carbohydrate Esterase 8
BACOVA_04903	
BACOVA_04904	
BACOVA_04905	Polysaccharide Lyase Family 1
BACOVA_04906	Polysaccharide Lyase Family 1
BACOVA_04907	Polysaccharide Lyase Family 1
BACOVA_04908	Carbohydrate Esterase 8
BACOVA_04909	
BACOVA_04910	susD-like
BACOVA_04911	susC-like
BACOVA_04912	
BACOVA_04913	
BACOVA_04914	
BACOVA_04915	
BACOVA_04916	Polysaccharide Lyase Family 1
BACOVA_04917	
BACOVA_04918	
BACOVA_04919	
BACOVA_04920	Polysaccharide Lyase Family 1
BACOVA_04921	susC-like
BACOVA_04922	susD-like
BACOVA_04923	
BACOVA_04924	
BACOVA_04925	Carbohydrate Esterase 8
BACOVA_04926	Glycoside Hydrolase Family 28
BACOVA_04927	Glycoside Hydrolase Family 3
BACOVA_04928	
	Glycoside Hydrolase Family 43-
BACOVA_04929	Carbohydrate Binding Module 6
BACOVA_04930	
BACOVA_04931	
BACOVA_04945	Glycoside Hydrolase Family 106
BACOVA_04946	Glycoside Hydrolase Family 28

101 HTCS

BACOVA_04947	
BACOVA_04948	Glycoside Hydrolase Family 28
BACOVA_04949	Carbohydrate Esterase12
BACOVA_04950	Glycoside Hydrolase Family 2
	Glycoside Hydrolase Family 43-
BACOVA_04951	Carbohydrate Binding Module 32
BACOVA_04952	Glycoside Hydrolase Family 42
BACOVA_04953	
BACOVA_04954	Glycoside Hydrolase Family 28
BACOVA_04955	
BACOVA_04956	susD-like
BACOVA_04957	susC-like
BACOVA_04958	
BACOVA_04959	
BACOVA_04960	
BACOVA_04961	
BACOVA_04962	susC-like
BACOVA_04963	susD-like
BACOVA_04964	susC-like
BACOVA_04965	susD-like
BACOVA_04966	Polysaccharide Lyase Family 11
BACOVA_04967	
BACOVA_04968	
BACOVA_04969	
BACOVA_04970	
BACOVA_04971	
BACOVA_04972	Carbohydrate Esterase12
BACOVA_04973	Glycoside Hydrolase Family 105
BACOVA_04974	Polysaccharide Lyase Family 11
BACOVA_04975	Glycoside Hydrolase Family 105
BACOVA_04976	
BACOVA_04977	
BACOVA_04978	Carbohydrate Esterase 4
BACOVA_04979	Glycoside Hydrolase Family 105
BACOVA_04985	
BACOVA_04986	

	BACOVA_04987	
	BACOVA_04988	susD-like
	BACOVA_04989	susC-like
	BACOVA_04990	
	BACOVA_04991	
	BACOVA_04992	Glycoside Hydrolase Family 2
	BACOVA_04993	
	BACOVA_04994	
	BACOVA_04995	Polysaccharide Lyase Family 11
	BACOVA_04996	
	BACOVA_04997	Glycoside Hydrolase Family 28
	BACOVA_04998	
	BACOVA_04999	
	BACOVA_05000	Polysaccharide Lyase Family 9
	BACOVA_05001	
	BACOVA_05002	Glycoside Hydrolase Family 28
	BACOVA_05003	
		Carbohydrate Esterase 6-Glycoside
	BACOVA_05004	Hydrolase Family 105
	BACOVA_05005	Polysaccharide Lyase Family 1
	BACOVA_05006	
	BACOVA_05007	susC-like
	BACOVA_05008	susD-like
	BACOVA_05009	
	BACOVA_05010	
	BACOVA_05011	susC-like
	BACOVA_05012	susD-like
	BACOVA_05013	
	BACOVA_05014	
	BACOVA_05015	Glycoside Hydrolase Family 28
	BACOVA_05016	
		Glycoside Hydrolase Family 20-
	BACOVA_05141	Carbohydrate Binding Module 32
	BACOVA_05142	
	BACOVA_05143	
	BACOVA_05144	
103 ECF		

	BACOVA_05145	
	BACOVA_05146	
	BACOVA_05147	
	BACOVA_05148	susD-like
	BACOVA_05149	susC-like
	BACOVA_05150	
	BACOVA_05151	
104 ECF	BACOVA_05174	
	BACOVA_05175	
	BACOVA_05176	
	BACOVA_05177	
	BACOVA_05178	susC-like
	BACOVA_05179	susD-like
	BACOVA_05180	
	BACOVA_05181	
		Glycoside Hydrolase Family 35-
		Carbohydrate Binding Module 32
105 ECF	BACOVA_05182	
	BACOVA_05183	Glycoside Hydrolase Family 89
	BACOVA_05184	susD-like
	BACOVA_05185	
	BACOVA_05186	susC-like
	BACOVA_05187	
	BACOVA_05188	
	BACOVA_05189	
106 unknown	BACOVA_05278	susC-like
	BACOVA_05279	susD-like
	BACOVA_05280	
107 HTCS	BACOVA_05466	
	BACOVA_05467	
	BACOVA_05468	Polysaccharide Lyase Family 15
	BACOVA_05469	
	BACOVA_05470	
	BACOVA_05471	
	BACOVA_05472	
	BACOVA_05473	Polysaccharide Lyase Family 12
	BACOVA_05474	Glycoside Hydrolase Family 88



	BACOVA_05475	susD-like	
	BACOVA_05476	susC-like	
	BACOVA_05477		
	BACOVA_05478	Polysaccharide Lyase Family 12	
	BACOVA_05479		
	BACOVA_05497	Polysaccharide Lyase Family 13	
108 HTCS	BACOVA_05487	Glycoside Hydrolase Family 2	
	BACOVA_05488	Glycoside Hydrolase Family 53	bacova_05488-91 and bacova_05493 are induced <i>in vivo</i> in plant fed mice.
	BACOVA_05489		
	BACOVA_05490	susD-like	
	BACOVA_05491	susC-like	
	BACOVA_05492		
	BACOVA_05493	Glycoside Hydrolase Family 5	
	BACOVA_05494		
	BACOVA_05495		
109 unknown	BACOVA_05542	susC-like	
	BACOVA_05543	susD-like	
110 ECF	BACOVA_05556		
	BACOVA_05557		
	BACOVA_05558		
	BACOVA_05559	susC-like	
	BACOVA_05560	susD-like	
	BACOVA_05561	Glycoside Hydrolase Family 18	
	BACOVA_05562		
	BACOVA_05563		
	BACOVA_05564		
	BACOVA_05565	Glycoside Hydrolase Family 3	
111 ECF	BACOVA_05573		
	BACOVA_05574		
	BACOVA_05575		
	BACOVA_05576	susC-like	
	BACOVA_05577	susD-like	
	BACOVA_05578		
	BACOVA_05579		
	BACOVA_05580		

112 HTCS

BACOVA\_05581  
BACOVA\_05611  
BACOVA\_05612  
BACOVA\_05613  
BACOVA\_05614  
BACOVA\_05615  
BACOVA\_05616  
BACOVA\_05617  
BACOVA\_05618  
BACOVA\_05619  
BACOVA\_05620  
BACOVA\_05621  
BACOVA\_05622

Glycoside Hydrolase Family 28

Carbohydrate Binding Module 6

susC-like

susD-like