

- 1 **Supplemental Information (SI)**
- 2 **Table S2. Genes encoded by the *Bt* ΔCPS genomic library inserts carrying**
- 3 **putative epitopes recognized by polyreactive gut IgA**

Locus tag(s) within a genomic insert	Predicted molecular mass (kDa)	Predicted function	Predicted protein localization
BT0189; BT0190	38; 127	anti-sigma factor; SusC homolog	P; M
BT1161; BT1162; BT1163	53; 46; 27	aminopeptidase C; hypothetical; TolC family	Ex; M; M
BT1212	51	efflux protein	M
BT1268; BT1269; BT1270	112; 40; 47	AcrB/D/F family transporter; component of multidrug efflux system; putative Na ⁺ /H ⁺ antiporter (part of polyamine transport locus (1))	M; Cy; M
BT1286; BT1287; BT1288	65; 24; 52	two-component system response regulator; hypothetical; spermidine/putrescine ABC	M, Ex; M

		transporter (part of polyamine transport locus (1))	
BT1385; BT1386; BT1387	34; 21; 49	transcriptional regulator; hypothetical; putative Na ⁺ - driven multidrug efflux pump	Cy; Cy; M
BT1438; BT1439; BT1440	52; 55.46; 115	membrane efflux protein; SusD homolog; SusC homolog	M; M; M
BT1760; BT1761; BT1762	59; 50; 64	Glycoside hydrolase 32; SusE homolog; SusD homolog (2)	M; M; M
BT2437	23	hypothetical	M
BT3013; BT3014; BT3015	73; 33;107	SusD homolog; chitobiase; hypothetical	M; M; Unknown
BT3152; BT3153; BT3154; BT3155;	57; 13; 12; 90	ATP-dependent DNA helicase; hypothetical; hypothetical; Glycosyl hydrolase 65	Cy; Cy; M; Ex
BT3328; BT3329; BT3330	95; 69; 38	hypothetical; hypothetical; hypothetical	M; M; M
BT3411; BT3412; BT3413	76; 22, 53	pyrophosphate-energized vacuolar membrane proton	M; Cy; M

		pump; RNase HII; hypothetical	
BT3669; BT3670	21; 117	Hypothetical; SusC homolog	P; M
BT3967; BT3968; BT3969	41; 34;161	putative two-component system sensor; Cation efflux; AcrB/D/F family cation efflux	M; Ex; M
BT4152; BT4153	113; 48	beta-galactosidase I; Exopolygalacturonase precursor	Ex; Ex
BT4191; BT4192; BT4193	48; 31; 84	Hypothetical; lipoyl synthase; dipeptidyl- peptidase IV	M; Cy; Ex
BT4675; BT4676; BT4677; BT4678	42; 16; 19; 44	heparin lyase I precursor; putative periplasmic protein; hypothetical; L-serine ammonia-lyase	Ex; Ex; Ex; Cy

4 M: membrane; Ex: Extracellular; Cy: Cytoplasmic; P: Periplasmic

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9 **Supplementary references**

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12 thetaiotaomicron symbiosis. *Science* **299**:2074-2076.
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15 bacteroides species determines diet-induced microbiota alterations. *Cell*
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