

Figure S1. Effect of antibiotic treatment on leukocytes and the gut metagenome in graft recipients. **A.** Aortic grafts were performed from C57Bl/6 donors into syngeneic C57Bl/6 recipients that had been treated with antibiotics for the first 3 weeks of life (ABT). Grafts were harvested at day 7 posttransplantation and stained for neutrophils, CD4 T cells, CD8 T cells, Tregs and macrophages. **B.** Proportion of systemic CD4 and CD8 T cells determined by flow cytometry of splenocytes. **C.** Tregs as a proportion of CD4+ T cells. **D.** Abundance of monocytes ($CD11b^+ CD115^+$) and neutrophils ($CD11b^+ Ly6G^+$) in peripheral blood. **E & F.** Whole genomic shotgun sequencing was performed on fecal samples from untreated (UT) and ABT mice. **E.** Negative-log p-values and log-fold change (LFC) of MetaCyc pathways using Kruskal-Wallis rank-sum test with Benjamin Hochberg correction. Dotted line shows $p = 0.05$. Reactions present only in one group were assigned LFC = 4 or LFC = -4. **F.** Negative-log p-values and log-fold change (LFC) of EC reactions using Kruskal-Wallis rank-sum test with Benjamin Hochberg correction with Benjamin Hochberg correction. Dotted line shows $p = 0.05$. Reactions present only in one group were assigned LFC = 4 or LFC = -4.

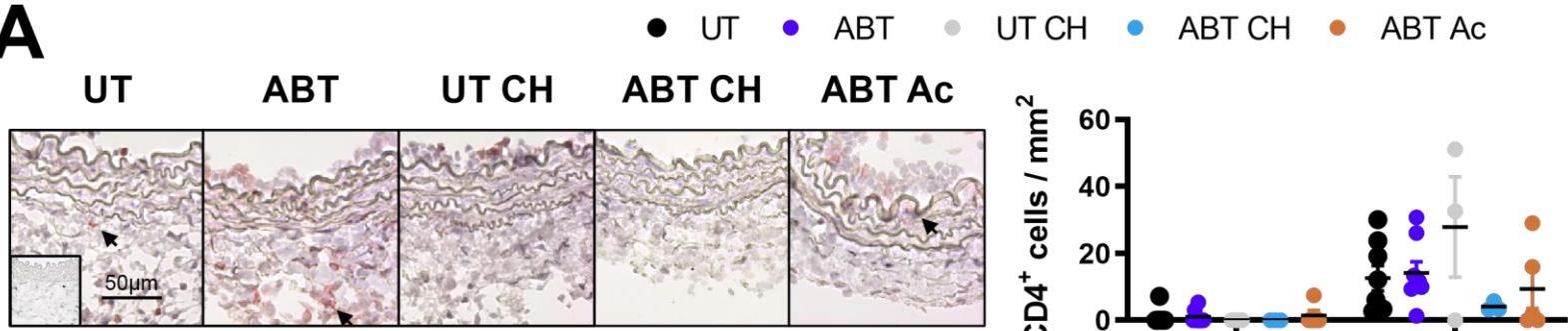
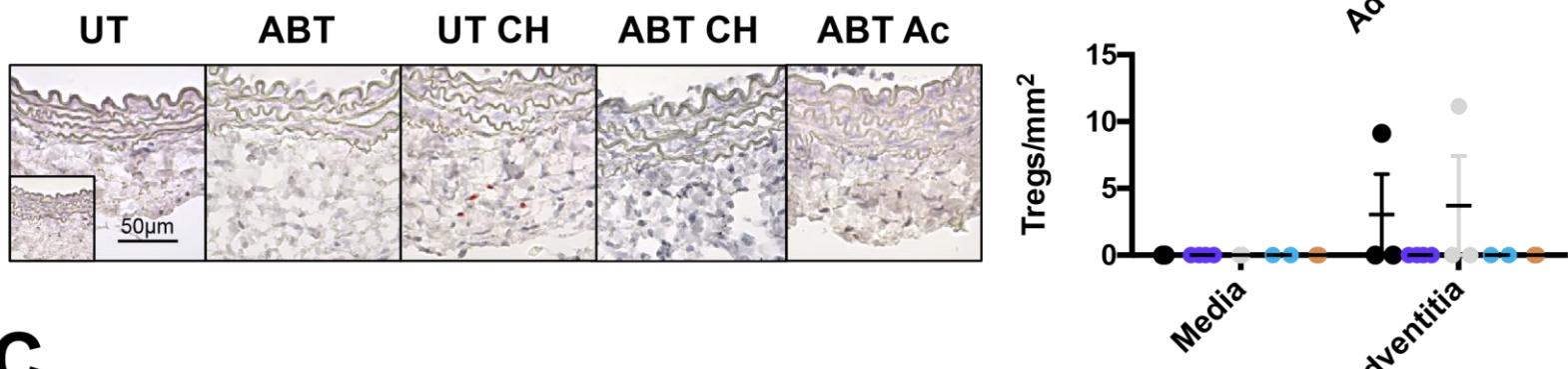
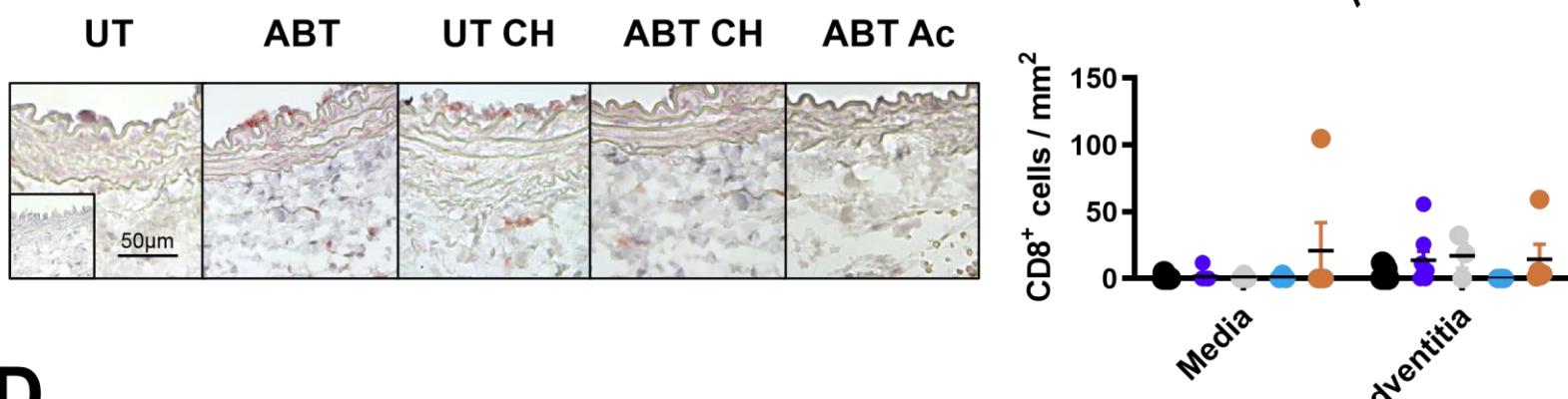
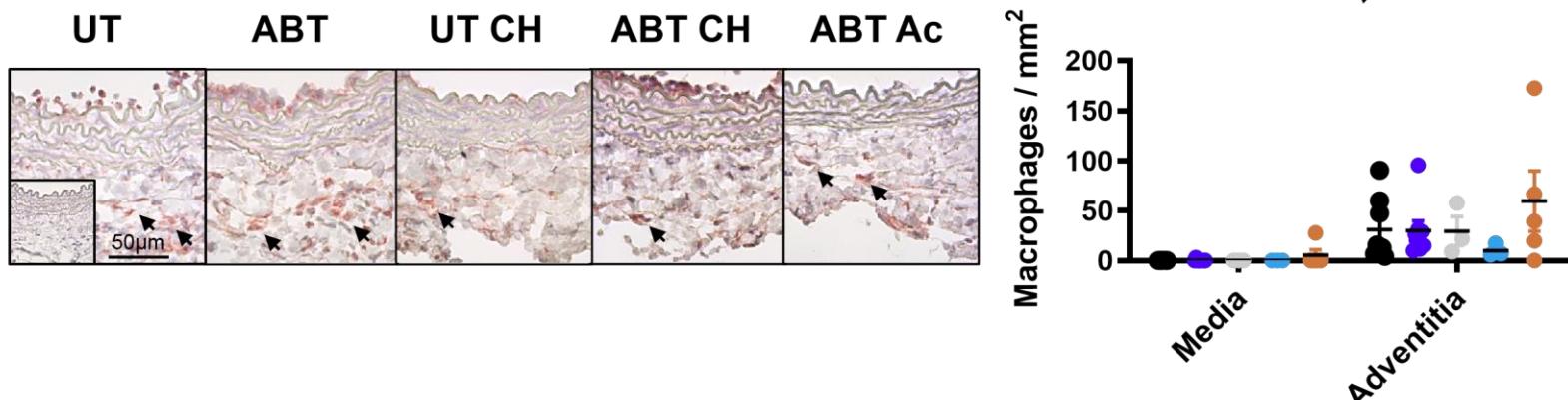
A**B****C****D**

Figure S2. Effect of normalizing the gut microbiota or providing acetate on leukocyte accumulation in aortic grafts. Mice were left untreated or treated with antibiotics for the first three weeks of life (ABT). A group of untreated mice were cohoused with antibiotic treated mice (UT CH and ABT CH). A group of antibiotic treated mice received 100mM magnesium acetate in their drinking water for 14 days prior to transplant and continuing to end point (ABT Ac). Aortic interposition allografts were performed between 8 – 12 weeks of age. Arteries were recovered at 7 days post-transplantation and stained (red) for **A.** CD4 T cells, **B.** Tregs, **C.** CD8 T cells, and **D.** macrophages. Cell counts are normalized to surface area of media and adventitia. Insets isotype control staining. Mag = 400X, scale bar = 50 mm. Arrows denote positive cells.

Function	(CH) (RPK)	mice.	Values	are	normalized		reads	per	kilobase						Correc p Value (UT vs ABT)			
					Pathway	UT M ean	ABT S Mean		CH UT M ean	ABT C ean	CH ABT M ean	BH C eted						
Alcohol Amine	Degradation GOLPDLCAT-PWY and GLCMANNAANAUT-PWY Polyamine Degradation	1.46E-06 9.27E-06	1.16E-06 2.20E-06	3.28E-05 6.02E-05	7.33E-06 8.31E-06	0.00E+00 7.27E-06	0.00E+00 2.46E-06	2.58E-07 7.59E-06	2.58E-07 7.59E-06	2.58E-07 7.59E-06	2.39E-06 0.018921024	0.018921024	0.018921024	0.018921024	0.018921024			
Amino	Degradation ARGGSYN-PWY Biosynthesis	2.58E-04	5.41E-05	5.04E-04	3.72E-05	2.58E-04	3.81E-05	3.62E-04	3.09E-05	0.027988983								
Amino Acid	Branched-CHAIN-AA-Biosynthesis SYN-PWY	1.65E-04	4.06E-05	3.74E-04	3.04E-05	2.20E-04	1.83E-05	2.83E-04	9.54E-06	0.018921024								
Amino Acid	PWY-723 Biosynthesis	1.40E-04	3.16E-05	2.32E-04	1.52E-05	1.57E-04	1.36E-05	2.04E-04	1.07E-05	0.040129514								
Amino Acid	SER-GLVGSYN-PWY Biosynthesis	5.77E-05	1.36E-05	1.69E-04	2.00E-05	5.09E-05	1.33E-05	7.07E-05	8.17E-06	0.018921024								
Carbohydrate	Biosynthesis CALVIN-PWY	1.50E-05	2.74E-05	4.11E-04	1.66E-05	1.95E-05	1.75E-05	2.47E-04	6.99E-06	0.018921024								
Carbohydrate	Biosynthesis GLUCONEO-PWY	1.67E-04	1.15E-05	3.61E-05	1.36E-05	2.10E-04	2.85E-05	1.93E-04	1.21E-05	0.018921024								
Carbohydrate	Biosynthesis PWY-5659	6.33E-06	1.67E-06	5.16E-05	1.29E-05	6.13E-06	2.03E-06	1.06E-05	2.36E-06	0.018921024								
Carbohydrate	Biosynthesis PWY-7315	3.88E-05	8.56E-06	1.14E-04	3.59E-05	3.87E-05	1.06E-05	7.55E-05	5.91E-06	0.027988983								
Carbohydrate	Biosynthesis GLYCOGENSYNTH-PWY	5.21E-05	1.46E-05	1.67E-04	1.16E-05	4.84E-05	1.06E-05	9.52E-05	1.28E-05	0.018921024								
Carbohydrate	Degradation PWY-7456	6.74E-06	1.90E-06	0.00E+00	0.00E+00	5.93E-06	2.17E-06	1.00E-05	2.37E-06	0.018921024								
Carrier	Biosynthesis PANTO-PWY	3.88E-04	7.25E-05	1.43E-04	2.10E-05	3.87E-04	5.13E-05	2.59E-04	4.16E-05	0.018921024								
Carrier	Biosynthesis PYRIDINUCSYN-PWY	2.67E-04	3.98E-05	7.60E-05	5.02E-06	2.62E-04	3.46E-05	1.82E-04	3.73E-05	0.018921024								
Cell	Structure PWY-6470 Biosynthesis	0.00E+00	0.00E+00	3.85E-05	9.43E-06	0.00E+00	0.00E+00	1.27E-06	1.27E-06	0.032403795								
Cell	Structure PWY-6471 Biosynthesis	0.00E+00	0.00E+00	7.50E-05	1.33E-05	0.00E+00	0.00E+00	1.51E-06	1.51E-06	0.018921024								
Fatty Acid	WATERS-PWY-1586 Biosynthesis	2.34E-05	5.00E-06	6.23E-05	8.02E-06	2.37E-05	4.26E-06	2.88E-05	4.03E-06	0.018921024								
Cofactor Fatty Acid	Biosynthesis COBALTSYN-PWY	0.00E+00	0.00E+00	4.18E-05	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018921024								
Fatty Acid	PWY-5973 Biosynthesis	2.35E-04	4.66E-05	8.17E-06	4.09E-06	2.61E-04	9.68E-06	2.21E-04	3.04E-05	0.018921024								
Fatty Acid	PWY-7663 Biosynthesis	2.05E-04	4.19E-05	6.58E-06	3.30E-06	2.27E-04	7.23E-06	1.94E-04	2.83E-05	0.018921024								
Fatty Acid	FAO-PWY Biosynthesis	6.13E-06	3.08E-06	2.51E-05	3.21E-06	3.48E-06	1.22E-06	1.42E-05	5.07E-06	0.018921024								
Fatty Acid	Degradation PWY-5136 Biosynthesis	6.04E-06	3.06E-06	2.25E-05	3.34E-06	3.20E-06	1.13E-06	1.35E-05	4.86E-06	0.040129514								
Fatty Acid	PWY-5138 Biosynthesis	4.29E-06	4.29E-06	3.05E-05	7.75E-06	2.86E-06	1.88E-06	4.29E-07	4.29E-07	0.037411469								
Fatty Acid	PWY-7288 Biosynthesis	2.30E-06	2.30E-06	3.08E-05	5.12E-06	1.53E-06	1.13E-06	2.99E-07	2.99E-07	0.018921024								
Fatty Acid	PWY66-391 Biosynthesis	2.30E-06	2.30E-06	2.66E-05	4.64E-06	1.69E-06	1.24E-06	5.28E-07	5.28E-07	0.018921024								
Fermentation	PWY-5100 Degradation	9.71E-05	2.74E-05	2.39E-04	1.88E-05	7.68E-05	1.67E-05	1.40E-04	1.69E-05	0.027988983								
Fermentation	PWY-5676	5.52E-06	3.09E-06	1.25E-04	1.76E-05	4.42E-06	2.61E-06	6.44E-06	2.23E-06	0.018921024								
Fermentation	PWY-6590	1.96E-05	7.51E-06	6.50E-05	4.58E-06	1.43E-05	5.25E-06	3.57E-05	7.05E-06	0.018921024								
Fermentation	PWY412-257	4.05E-06	2.01E-06	2.69E-05	5.39E-06	1.89E-06	1.21E-06	3.15E-06	9.63E-07	0.018921024								
Fermentation	PWY-5022 to Acids	0.00E+00	0.00E+00	6.43E-06	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.032403795								
Fermentation	PWY-7013 to Acids	2.08E-06	1.50E-06	7.82E-05	1.43E-05	2.61E-06	1.77E-06	1.57E-06	1.07E-06	0.018921024								
Inorganic Nutrient	PWY-4984 Metabolism	4.15E-06	2.20E-06	3.82E-05	6.54E-06	2.34E-06	1.46E-06	6.78E-06	2.09E-06	0.018921024								
Nucleoside and Nucleotide	Nucleotide Biosynthesis PWY-6121 and Biosynthetic PWY-7220	3.45E-04	2.09E-05	4.86E-04	4.11E-05	3.20E-04	2.08E-05	3.49E-04	1.84E-05	0.040129514								
Nucleoside and Nucleotide	Biosynthetic PWY-7222 Biosynthesis	2.19E-04	3.91E-05	6.53E-05	1.75E-05	2.11E-04	3.34E-05	1.44E-04	1.56E-05	0.018921024								
Nucleoside and Nucleotide	Biosynthetic PWY-7222 Biosynthesis	2.19E-04	3.91E-05	6.53E-05	1.75E-05	2.11E-04	3.34E-05	1.44E-04	1.56E-05	0.018921024								
Nucleoside and Nucleotide	Biosynthetic PWY-7184 Biosynthesis	1.37E-04	2.20E-05	1.87E-05	3.29E-06	1.73E-04	1.78E-05	9.40E-05	1.72E-05	0.018921024								
Nucleoside and Nucleotide	Biosynthetic PWY-7187 Biosynthesis	1.18E-04	1.84E-05	3.76E-05	6.70E-06	1.54E-04	8.27E-06	1.24E-04	1.43E-05	0.027988983								
Nucleoside and Nucleotide	Biosynthetic PWY-7197 Biosynthesis	8.72E-05	1.46E-05	1.30E-05	2.45E-06	1.15E-04	1.03E-05	6.59E-05	1.15E-05	0.018921024								
Nucleoside and Nucleotide	Biosynthetic PWY-7197 Biosynthesis	5.92E-06	3.10E-06	4.98E-05	1.25E-05	7.99E-06	6.94E-07	1.14E-05	4.04E-06	0.018921024								
Nucleoside and Nucleotide	Degradation PWY-1297 and Degradation PWY-1298 Biosynthesis	6.06E-06	2.28E-06	4.17E-05	9.48E-06	2.24E-06	1.39E-06	4.09E-06	1.33E-06	0.018921024								
Nucleotide	Biosynthesis DENOVOPURIN2-PWY	1.69E-04	2.32E-05	4.46E-05	7.63E-06	2.31E-04	1.07E-05	1.60E-04	2.29E-05	0.018921024								
Nucleotide	Biosynthesis PWY-6125	2.43E-04	5.62E-05	2.97E-05	5.16E-06	2.57E-04	4.03E-05	1.29E-04	2.14E-05	0.018921024								
Nucleotide	Biosynthesis PWY-6126	2.77E-04	2.51E-05	1.21E-04	2.81E-05	2.83E-04	2.91E-05	2.23E-04	1.80E-05	0.018921024								
Nucleotide	Biosynthesis PWY-7196	1.17E-06	1.17E-06	1.94E-05	3.89E-06	1.89E-06	1.89E-06	3.99E-06	2.60E-06	0.018921024								
Nucleotide	Biosynthesis PWY-7208	1.45E-04	2.26E-05	3.49E-05	5.07E-06	2.00E-04	1.97E-05	1.04E-04	1.82E-05	0.018921024								
Nucleotide	Biosynthesis PWY-7211	1.18E-06	1.18E-06	1.33E-05	3.71E-06	2.72E-06	2.72E-06	5.33E-06	3.47E-06	0.048169923								
Nucleotide	Biosynthesis PWY-7228	2.60E-04	6.34E-05	2.60E-05	4.54E-06	2.79E-04	4.42E-05	1.28E-04	2.36E-05	0.018921024								
Nucleotide	Biosynthesis PWY-7229	3.02E-04	2.31E-05	1.64E-04	3.18E-05	3.17E-04	2.88E-05	2.55E-04	1.78E-05	0.018921024								
Nucleotide	Biosynthesis PWY-841 Biosynthesis	2.41E-04	3.50E-05	4.60E-05	7.99E-06	2.74E-04	2.34E-05	1.62E-04	2.43E-05	0.018921024								
Nucleotide	Biosynthesis PWY-166 Biosynthesis	1.59E-04	1.94E-05	3.37E-05	5.75E-06	1.90E-04	1.71E-05	1.25E-04	1.69E-05	0.018921024								
Nucleotide 409	Biosynthesis PWY-66- Biosynthesis	4.75E-06	1.98E-06	2.71E-05	7.00E-06	1.87E-05	5.08E-06	2.94E-05	9.86E-06	0.018921024								
Other	Amino Acid Biosynthesis CITHARADEG-PWY	4.96E-06	2.62E-06	4.44E-05	7.29E-06	2.79E-06	1.74E-06	8.08E-06	2.48E-06	0.018921024								
Other	Amino Acid Biosynthesis GLUTURN-PWY	1.72E-04	4.54E-05	3.79E-04	3.92E-05	1.67E-04	4.02E-05	2.51E-04	2.67E-05	0.027988983								
Other	Amino Acid Biosynthesis GLUTURN-PWY	2.79E-05	1.24E-05	1.86E-04	1.92E-05	1.87E-05	6.93E-06	3.51E-05	2.60E-06	0.018921024								
Proteinogenic	Amino Acids Biosynthesis	2.44E-04	5.77E-05	5.13E-04	3.68E-05	2.47E-04	3.85E-05	3.62E-04	3.27E-05	0.027988983								
Proteinogenic	Amino Acids Biosynthetic LEUSYN-PWY	5.77E-04	3.66E-05	7.65E-04	3.08E-05	5.73E-04	2.60E-05	5.94E-04	2.89E-05	0.018921024								
Proteinogenic	Amino Acids Biosynthetic PWY-2941 Biosynthesis	2.76E-05	5.81E-06	7.87E-05	1.03E-05	2.25E-05	4.80E-06	4.68E-05	5.00E-06	0.018921024								
Proteinogenic	Amino Acids Biosynthetic PWY-5103 Biosynthesis	1.37E-04	3.54E-05	3.26E-04	2.85E-05	1.83E-04	1.70E-05	2.42E-04	8.37E-06	0.018921024								
Proteinogenic	Amino Acids Biosynthetic PWY-7400 Biosynthesis	2.59E-04	5.37E-05	5.02E-04	3.72E-05	2.59E-04	3.79E-05	3.62E-04	3.06E-05	0.027988983								
Proteinogenic	Amino Acids Biosynthetic VALSYN-PWY	5.77E-04	3.66E-05	7.65E-04	3.08E-05	5.73E-04	2.60E-05	5.94E-04	2.89E-05									

Sugars	And Polysaccharides	Degrada	1.53E-04	3.77E-05	3.78E-04	3.02E-05	1.45E-04	3.41E-05	2.43E-04	2.87E-05	0.018921024
PWY-6527	Biosynthesis 1CMET2-PWY	3.41E-04	4.56E-05	2.17E-04	2.18E-05	3.31E-04	3.57E-05	2.52E-04	3.29E-05	0.040129514	
Vitamin	Biosynthesis PANTOSYN-PWY	3.32E-04	4.78E-05	1.53E-04	1.86E-05	3.21E-04	3.09E-05	2.36E-04	2.96E-05	0.027988983	
Vitamin	Biosynthesis PWY-6168	4.16E-05	1.07E-05	1.16E-04	1.51E-05	5.06E-05	1.17E-05	7.10E-05	8.31E-06	0.040129514	
Vitamin	Biosynthesis PWY-6892	1.47E-05	6.88E-06	8.22E-05	1.65E-05	1.91E-05	6.94E-06	3.15E-05	4.58E-06	0.027988983	
Vitamin	Biosynthesis PWY-7357	3.75E-05	1.12E-05	1.33E-04	1.45E-05	3.39E-05	8.73E-06	6.01E-05	7.18E-06	0.018921024	
Vitamin	Biosynthesis THSYN-PWY	3.83E-05	1.45E-05	0.00E+00	0.00E+00	4.09E-05	7.25E-06	6.79E-05	3.94E-06	0.028850771	
Vitamin	GALACT-GLUCUROCAT- PWY	1.09E-05	4.24E-06	7.58E-05	9.06E-06	1.03E-05	2.73E-06	2.39E-05	3.90E-06	0.018921024	
Vitamin	GLUCARAGALACTSUPER- PWY	0.00E+00	0.00E+00	3.93E-05	9.80E-06	1.23E-06	1.23E-06	1.46E-06	9.46E-07	0.018921024	
	GLYCOLYSIS	1.69E-04	2.22E-05	3.73E-05	1.42E-05	1.89E-04	3.82E-05	1.92E-04	1.10E-05	0.018921024	
	NONOXIPENT-PWY	5.06E-05	1.42E-05	2.22E-04	1.85E-05	5.82E-05	8.18E-06	1.01E-04	7.97E-06	0.018921024	
	PPGPMET-PWY	8.24E-06	2.72E-06	6.38E-08	6.38E-06	6.93E-06	2.77E-06	6.50E-06	2.39E-06	0.018921024	
	PWY-5142	3.44E-05	8.15E-06	5.27E-05	3.85E-05	3.47E-04	1.10E-04	3.77E-04	1.00E-05	0.018921024	
	PWY-5177	1.18E-05	4.65E-06	2.00E-05	1.00E-05	9.93E-06	4.24E-06	2.40E-05	5.28E-06	0.018921024	
	PWY-5188	4.43E-05	1.48E-05	1.88E-04	1.46E-05	5.55E-05	8.03E-06	8.09E-05	3.01E-06	0.018921024	
	PWY-5484	1.66E-04	1.70E-05	2.11E-05	9.31E-06	1.67E-04	3.26E-05	1.50E-04	1.35E-05	0.018921024	
	PWY-5590	1.25E-05	2.75E-06	2.44E-06	1.63E-06	3.38E-05	1.24E-05	3.14E-05	8.68E-06	0.037411469	
	PWY-5913	6.90E-06	4.12E-06	0.00E+00	0.00E+00	8.63E-06	3.83E-06	3.36E-06	1.23E-06	0.028850771	
	PWY-6703	2.55E-04	4.93E-05	2.49E-06	7.03E-07	2.57E-04	3.76E-05	4.42E-05	3.37E-05	0.018921024	
	PWY-6876	4.18E-07	4.18E-07	2.40E-05	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	PWY-7383	5.18E-05	9.91E-06	4.24E-06	2.15E-06	8.81E-05	1.78E-05	5.71E-05	9.59E-06	0.018921024	
	PWY6-400	1.04E-04	2.03E-05	2.51E-05	1.00E-05	1.79E-04	3.23E-05	1.77E-04	1.47E-05	0.018921024	
	PWY6-422	1.16E-04	2.96E-05	2.47E-04	1.15E-05	1.14E-04	2.52E-05	1.83E-04	1.93E-05	0.018921024	
TCA		1.99E-05	4.04E-06	9.49E-07	9.49E-07	4.70E-05	1.43E-05	4.42E-05	1.13E-05	0.02227472	

Supplemental Table	2: significantly co-housed (RPK).	Genes between mice.	related untreated Values	to (UT), are	enzymatic antibiotic normalized	reactions treated reads	that (ABT), per	are and kilobase		
Function	Enzyme	UT	ABT Co EM S Mean	ABT SEM	UT ean	CHUT M H EM	ABT C ean S	CHABT M H EM	BH C ted S	Correc P Value (UT vs ABT)
5-Aminolimidazole otide	6.3.3.1	7.25E-05	1.93E-05	1.46E-04	1.07E-05	7.59E-05	1.52E-05	1.07E-04	1.11E-05	0.027230774
	Ribonuclease									
	Biosynthesis									
is Alanine	4.1.1.11	9.81E-05	1.73E-05	2.74E-05	3.67E-06	1.04E-04	1.66E-05	6.63E-05	1.25E-05	0.019343467
is Alcohol	1.1.1.202	4.73E-07	3.29E-07	6.10E-06	1.58E-06	0.00E+00	0.00E+00	5.99E-08	5.99E-08	0.019343467
on Alcohol	1.1.1.6	4.11E-07	2.13E-07	2.19E-05	6.00E-06	2.59E-07	1.42E-07	2.04E-07	5.36E-08	0.019343467
on Alcohol	2.7.1.30	6.42E-05	1.42E-05	1.54E-04	7.80E-06	5.05E-05	1.32E-05	8.05E-05	8.82E-06	0.019343467
on Alcohol	4.2.1.30	3.41E-06	1.34E-06	2.04E-05	3.62E-06	1.09E-06	4.38E-07	1.86E-06	6.02E-07	0.027230774
on Alkaloid	14.3.16	1.58E-04	4.26E-05	8.73E-06	1.53E-06	1.61E-04	2.88E-05	7.90E-05	2.06E-05	0.019343467
is Alkaloid	2.5.1.72	1.15E-04	1.97E-05	2.66E-05	4.39E-06	1.31E-04	2.05E-05	7.55E-05	1.65E-05	0.019343467
is Amine	and 15.3.1	1.72E-07	1.10E-07	2.28E-06	5.02E-07	4.01E-07	1.23E-07	1.34E-06	3.79E-07	0.019343467
on Amine	and 23.1.57	7.75E-06	3.06E-06	2.54E-05	4.65E-06	8.47E-06	2.13E-06	1.59E-05	4.56E-06	0.037234291
on Amine	and 3.5.1.5	1.24E-04	2.17E-05	1.57E-05	3.57E-06	9.03E-05	1.08E-05	6.77E-05	1.74E-05	0.019343467
on Amine	and 3.5.2.10	1.64E-06	6.88E-07	1.56E-05	3.06E-06	1.74E-06	5.39E-07	3.02E-06	7.57E-07	0.019343467
on Amine	and 3.5.2.5	7.58E-07	4.79E-07	8.89E-06	2.59E-06	4.38E-07	2.94E-07	1.33E-06	5.53E-07	0.027230774
on Amine	and 4.3.1.7	3.27E-06	1.92E-06	3.17E-05	7.87E-06	2.27E-06	6.41E-07	4.38E-06	1.28E-06	0.027230774
on Amine	and 4.3.99.4	8.43E-07	3.46E-07	5.60E-06	1.52E-06	8.59E-07	4.55E-07	5.48E-07	9.53E-08	0.027230774
on Amine	and 6.3.4.6	2.49E-06	4.32E-07	6.91E-07	2.04E-07	2.85E-06	6.67E-07	1.09E-06	2.33E-07	0.027230774
on Amino	Acid 1.1.1.41	0.00E+00	0.00E+00	3.80E-06	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
is Amino	Acid 2.7.9.1	2.06E-04	1.21E-05	1.54E-04	1.10E-05	2.14E-04	1.25E-05	1.86E-04	1.08E-05	0.037234291
is Amino	Acid 2.8.3.17	1.24E-07	1.24E-07	1.59E-06	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.036942327
on Amino	Acid 1.2.1.27	0.00E+00	0.00E+00	4.54E-07	1.01E-07	4.03E-08	4.03E-08	2.13E-07	1.33E-07	0.019343467
on Amino	Acid 1.4.1.13	2.85E-05	7.79E-06	1.18E-04	1.04E-05	2.79E-05	6.33E-06	4.87E-05	5.73E-06	0.019343467
on Amino	Acid 2.3.1.29	3.39E-05	4.28E-06	1.40E-05	2.25E-06	2.73E-05	2.83E-06	2.25E-05	3.97E-06	0.019343467
on Amino	Acid 2.3.8.12	0.00E+00	0.00E+00	1.90E-06	4.67E-07	1.25E-07	1.25E-07	1.73E-06	1.01E-06	0.031375386
on Amino	Acid 3.5.2.7	5.56E-05	1.13E-05	6.89E-06	1.64E-06	4.53E-05	4.68E-06	2.27E-05	5.77E-06	0.019343467
on Amino	Acid 3.5.3.7	0.00E+00	0.00E+00	7.95E-06	2.37E-06	8.17E-08	8.17E-08	7.36E-08	7.36E-08	0.019343467
on Amino	Acid 4.1.1.15	2.26E-05	7.89E-06	2.56E-06	1.54E-06	2.79E-05	5.49E-06	1.59E-05	5.25E-06	0.037234291
on Amino	Acid 4.1.3.16	9.14E-05	1.65E-05	3.20E-05	4.90E-06	9.54E-05	1.60E-05	5.28E-05	9.15E-06	0.019343467
on Amino	Acid 4.2.1.49	7.10E-05	1.54E-05	7.62E-06	1.90E-06	6.43E-05	6.94E-06	3.37E-05	9.02E-06	0.019343467
on Amino	Acid 4.3.1.19	1.81E-05	4.62E-06	5.90E-05	4.35E-06	1.76E-05	4.04E-06	2.71E-05	4.05E-06	0.019343467
on Amino	Acid 4.3.1.3	6.58E-05	1.45E-05	7.87E-06	1.85E-06	6.03E-05	6.78E-06	3.04E-05	8.41E-06	0.019343467
on Antibiotic	1.1.1.100	3.95E-05	7.78E-06	8.80E-05	6.76E-06	4.34E-05	1.99E-06	4.56E-05	3.28E-06	0.019343467
is Antibiotic	2.3.1.180	1.41E-04	1.55E-05	6.95E-05	1.26E-05	1.45E-04	1.25E-05	1.04E-04	9.96E-06	0.027230774
is Antibiotic	2.3.1.183	0.00E+00	0.00E+00	8.74E-07	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031375386
is Antibiotic	6.4.1.2	3.60E-05	9.87E-06	9.10E-05	1.13E-05	4.00E-05	8.12E-06	5.25E-05	7.04E-06	0.019343467
is Aromatic	Compound 1.17.1.5	4.92E-07	3.08E-07	1.19E-05	1.71E-06	2.32E-07	1.06E-07	1.94E-07	6.69E-08	0.019343467
d	Degradati									
on Aromatic	Compound 2.3.1.8	1.26E-05	3.16E-06	4.37E-05	5.36E-06	1.11E-05	1.91E-06	2.11E-05	2.58E-06	0.019343467

	CDP-diacylglycerol	2.3.1.274	1.67E-06	5.85E-07	0.00E+00	0.00E+00	5.79E-06	8.80E-07	5.14E-06	1.48E-06	0.019343467
is	Cell Wall	2.4.2.45	5.32E-07	2.63E-07	2.88E-06	9.20E-07	3.20E-07	1.07E-07	6.51E-07	2.19E-06	0.037234291
is	Cell Wall	5.1.3.2	2.11E-05	6.72E-06	7.36E-05	6.18E-06	2.21E-05	5.76E-06	3.93E-05	5.28E-06	0.019343467
is	Cell Wall	5.4.99.9	1.15E-05	3.77E-06	4.42E-05	2.50E-06	1.07E-05	2.54E-06	2.05E-05	2.38E-06	0.019343467
is	Chlorophyll Biosynthes	1.3.98.3	5.25E-06	1.68E-06	2.51E-05	4.00E-06	5.36E-06	1.53E-06	1.03E-05	7.77E-07	0.019343467
is	Chlorophyll Biosynthes	2.1.1.11	2.28E-07	1.39E-07	2.07E-06	5.37E-07	6.75E-08	6.75E-08	8.93E-07	5.62E-08	0.037234291
is	Cobamide Biosynthes	1.5.1.39	6.28E-07	3.02E-07	1.52E-05	4.06E-06	4.01E-07	1.67E-07	8.98E-07	4.05E-07	0.019343467
is	Cobamide Biosynthes	4.1.1.81	0.00E+00	0.00E+00	3.56E-06	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
is	Coenzyme A Biosynthes	1.1.1.169	1.34E-05	2.97E-06	5.67E-05	9.38E-06	1.73E-05	2.06E-06	2.42E-05	3.91E-06	0.019343467
is	Coenzyme A Biosynthes	2.1.2.11	1.27E-04	2.56E-05	2.41E-05	4.31E-06	1.26E-04	1.56E-05	7.67E-05	1.35E-05	0.019343467
is	Coenzyme A Biosynthes	2.7.1.24	7.06E-05	8.52E-06	3.70E-05	3.30E-06	6.20E-05	3.77E-06	5.04E-05	6.39E-06	0.027230774
is	Coenzyme A Biosynthes	6.3.2.1	8.72E-05	1.59E-05	2.27E-05	3.81E-06	9.20E-05	1.20E-05	6.21E-05	1.11E-05	0.019343467
is	Cofactor, Carrier, and Vitamin Biosynthes	3.5.4.25	1.43E-04	2.78E-05	6.14E-05	8.09E-06	1.49E-04	1.64E-05	9.78E-05	1.16E-05	0.037234291
is	Cofactor, Carrier, and Vitamin Biosynthes	4.99.1.1	9.59E-07	4.50E-07	0.00E+00	0.00E+00	2.11E-06	6.48E-07	7.84E-07	3.85E-07	0.019343467
is	Cofactor, Carrier, and Vitamin Biosynthes	5.5.1.4	2.45E-06	7.24E-07	4.12E-08	4.12E-08	2.45E-06	6.68E-07	9.24E-07	2.52E-07	0.019343467
is	Degradation	1.11.1.6	3.67E-05	9.18E-06	8.65E-06	1.04E-06	3.92E-05	4.29E-06	2.09E-05	4.52E-06	0.019343467
is	Degradation	2.2.1.1	1.15E-05	3.33E-06	5.84E-05	6.04E-06	1.67E-05	2.97E-06	2.68E-05	2.04E-06	0.019343467
is	Degradation	3.5.1.1	3.40E-06	9.39E-07	1.40E-05	1.45E-06	3.18E-06	9.81E-07	3.76E-06	6.13E-07	0.019343467
is	Degradation	3.5.3.2	6.10E-06	1.05E-06	2.02E-05	4.14E-06	7.25E-06	2.78E-06	8.27E-06	1.93E-06	0.027230774
is	Degradation	4.2.1.11	1.14E-04	2.86E-05	1.31E-04	4.30E-06	2.23E-05	1.94E-05	1.65E-04	1.77E-05	0.019343467
is	Degradation	5.4.2.11	4.05E-05	8.92E-06	1.55E-05	6.51E-07	4.62E-05	7.82E-06	2.40E-05	6.71E-06	0.019343467
is	Degradation	6.2.1.87	2.29E-06	4.76E-07	1.17E-05	1.09E-06	2.95E-06	2.66E-07	6.00E-06	1.12E-06	0.019343467
is	Electron Biosynthes	2.2.1.9	4.07E-05	9.27E-06	0.00E+00	0.00E+00	3.55E-05	4.94E-06	1.89E-05	5.44E-06	0.019343467
is	Electron Carrier	2.4.1.250	1.33E-07	1.33E-07	4.63E-06	1.42E-06	1.98E-07	1.43E-07	7.44E-08	7.44E-08	0.019343467
is	Electron Carrier	2.5.1.74	4.90E-05	1.13E-05	1.51E-07	1.51E-07	4.99E-05	8.75E-06	2.60E-05	6.93E-06	0.019343467
is	Electron Carrier	2.7.7.18	9.00E-05	1.23E-05	3.64E-05	1.94E-06	9.39E-05	8.80E-06	6.10E-05	8.11E-06	0.019343467
is	Electron Carrier	4.1.3.36	9.14E-05	2.54E-05	3.87E-06	1.23E-06	9.30E-05	1.68E-05	4.53E-05	1.28E-05	0.019343467
is	Electron Carrier Biosynthes	4.2.1.113	3.55E-07	9.54E-08	0.00E+00	0.00E+00	4.43E-07	1.19E-07	3.35E-07	8.99E-08	0.028030807
is	Electron Carrier Biosynthes	6.3.2.31	1.91E-07	1.01E-07	3.64E-06	1.03E-06	1.65E-07	1.10E-07	2.81E-07	7.28E-08	0.027230774
is	Electron Carrier Biosynthes	6.3.4.21	1.01E-04	9.38E-06	1.57E-04	1.08E-05	8.88E-05	1.48E-05	1.07E-04	7.93E-06	0.027230774
is	Enzyme Cofactor Biosynthes	1.3.1.54	2.47E-06	1.32E-06	1.51E-05	4.50E-06	3.50E-06	1.36E-06	4.58E-06	5.81E-07	0.027230774
is	Enzyme Cofactor Biosynthes	2.1.1.130	1.80E-06	7.71E-07	1.19E-05	2.64E-06	2.40E-06	6.83E-07	4.01E-06	5.94E-07	0.027230774
is	Enzyme Cofactor Biosynthes	2.1.1.131	3.95E-06	1.59E-06	1.79E-05	2.77E-06	4.96E-06	1.80E-06	9.35E-06	1.13E-06	0.019343467
is	Enzyme Cofactor Biosynthes	2.1.1.133	2.12E-06	9.74E-07	1.72E-05	3.10E-06	3.05E-06	6.71E-07	6.74E-06	9.11E-07	0.019343467
is	Enzyme Cofactor Biosynthes	5.4.99.61	1.65E-06	5.67E-07	1.01E-05	1.65E-06	3.11E-06	9.39E-07	4.16E-06	8.23E-07	0.019343467
is	Enzyme Cofactor Biosynthes	1.1.1.262	2.74E-06	4.74E-07	7.26E-06	7.66E-07	2.21E-06	5.60E-07	2.51E-06	6.39E-07	0.019343467
is	Enzyme Cofactor Biosynthes	2.4.2.14	1.81E-04	1.39E-05	2.67E-04	1.77E-05	1.72E-04	1.20E-05	1.90E-04	1.39E-05	0.027230774
is	Enzyme Cofactor Biosynthes	2.5.1.129	1.19E-07	1.19E-07	1.70E-06	3.57E-07	3.61E-08	3.61E-08	0.00E+00	0.00E+00	0.019343467
is	Enzyme Cofactor Biosynthes	2.5.1.9	3.40E-06	1.12E-06	1.46E-05	2.94E-06	4.24E-06	1.12E-06	6.72E-06	1.26E-06	0.037234291
is	Enzyme Cofactor Biosynthes	2.6.99.2	9.66E-05	2.26E-05	0.00E+00	0.00E+00	1.02E-04	1.99E-05	5.15E-05	1.49E-05	0.019343467
is	Enzyme Cofactor Biosynthes	2.7.1.49	2.01E-06	8.51E-07	8.95E-06	1.05E-06	1.92E-06	6.30E-07	4.50E-06	4.27E-07	0.019343467
is	Enzyme Cofactor Biosynthes	2.7.1.50	2.51E-05	8.10E-06	7.58E-05	1.17E-05	2.41E-05	7.10E-06	3.28E-05	4.57E-06	0.037234291
is	Enzyme Cofactor Biosynthes	2.7.1.89	0.00E+00	0.00E+00	4.75E-06	1.33E-06	5.94E-08	5.94E-08	0.00E+00	0.00E+00	0.019343467
is	Enzyme Cofactor Biosynthes	2.7.4.16	9.90E-05	2.21E-05	0.00E+00	0.00E+00	1.06E-04	1.84E-05	5.47E-05	1.64E-05	0.019343467
is	Enzyme Cofactor Biosynthes	2.7.4.7	3.24E-06	1.11E-06	1.43E-05	2.22E-06	2.96E-06	8.88E-07	5.67E-06	8.18E-07	0.019343467
is	Enzyme Cofactor Biosynthes	2.7.6.2	5.57E-06	1.66E-06	2.26E-05	3.64E-06	6.42E-06	2.21E-06	9.12E-06	1.65E-06	0.019343467
is	Enzyme Cofactor Biosynthes	2.8.1.10	1.03E-04	2.20E-05	2.74E-05	5.01E-06	1.17E-04	1.64E-05	6.86E-05	1.18E-05	0.019343467
is	Enzyme Cofactor Biosynthes	4.1.99.12	1.50E-04	2.98E-05	6.15E-05	8.12E-06	1.56E-04	1.74E-05	1.01E-04	1.26E-05	0.037234291
is	Enzyme Cofactor Biosynthes	4.1.99.19	1.48E-06	7.27E-07	1.19E-05	2.95E-06	1.88E-06	7.06E-07	3.28E-06	5.19E-07	0.027230774
is	Enzyme Cofactor Biosynthesis	4.3.3.6	1.03E-05	3.12E-06	3.82E-05	6.36E-06	8.66E-06	2.95E-06	2.18E-05	1.45E-06	0.037234291
Fatty Acid and Lipid Biosynthesis	2.3.1.129	1.15E-04	3.15E-05	0.00E+00	0.00E+00	1.15E-04	2.23E-05	5.11E-05	1.31E-05	0.019343467	
Fatty Acid and Lipid Biosynthesis	2.4.1.182	9.53E-05	2.18E-05	2.20E-08	2.20E-08	9.40E-05	1.46E-05	5.06E-05	1.50E-05	0.019343467	
Fatty Acid and Lipid Biosynthesis	2.7.1.130	6.91E-05	1.53E-05	0.00E+00	0.00E+00	7.64E-05	1.22E-05	3.86E-05	1.09E-05	0.019343467	
Fatty Acid and Lipid Biosynthesis	3.5.1.108	1.04E-04	2.75E-05	0.00E+00	0.00E+00	1.10E-04	1.81E-05	5.55E-05	1.61E-05	0.019343467	
Fatty Acid and Lipid Degradation	1.1.1.35	1.93E-06	7.94E-07	7.76E-06	1.57E-06	1.73E-06	8.12E-07	3.98E-06	9.36E-07	0.027230774	
Fatty Acid and Lipid Degradation	1.1.1.50	8.60E-07	1.99E-07	5.93E-06	1.55E-06	8.52E-07	8.52E-07	1.18E-06	7.44E-07	0.037234291	

Fatty	Acid and Lipid Degradation	4.1.1.4	6.09E-08	6.09E-08	3.75E-06	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.019343467	
Fatty	Acid and Lipid Degradation	1.3.8.1	1.09E-05	4.66E-06	8.59E-05	1.52E-05	8.05E-06	2.57E-06	1.86E-05	3.42E-06	0.019343467
Fatty	Acid and Lipid Degradation	2.3.1.16	1.43E-06	7.86E-07	1.05E-05	2.76E-06	9.87E-07	3.56E-07	4.55E-06	2.21E-06	0.027230774
Fatty	Acid and Lipid Degradation	2.3.1.9	6.98E-06	2.14E-06	3.72E-05	4.30E-06	6.35E-06	1.55E-06	1.56E-05	3.35E-06	0.019343467
Fatty	Acid and Lipid Degradation	4.2.1.119	9.98E-07	9.98E-07	1.41E-05	4.20E-06	5.49E-07	3.71E-07	4.52E-08	4.52E-08	0.027214809
Fermentation	to Butanoate	1.1.1.37	9.06E-05	2.28E-05	8.69E-07	4.43E-07	8.67E-05	1.25E-05	4.38E-05	1.25E-05	0.019343467
Fermentation	to Alcohols	1.3.1.44	4.74E-07	1.84E-07	4.21E-06	1.31E-06	7.10E-07	4.75E-07	1.94E-06	3.49E-07	0.019343467
Fermentation	to Butanoate	1.1.1.61	0.00E+00	0.00E+00	1.27E-05	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
Fermentation	to Butanoate	4.2.1.120	3.49E-06	1.34E-06	3.51E-05	7.32E-06	1.83E-06	9.20E-07	4.70E-06	9.61E-07	0.019343467
Fermentation	to Propanoate	1.1.1.27	4.31E-05	1.17E-05	1.05E-04	7.62E-06	5.04E-05	1.28E-05	6.19E-05	7.08E-06	0.019343467
Fermentation	to Propanoate	2.3.1.22	2.70E-05	6.06E-06	6.89E-05	4.94E-06	2.62E-05	5.80E-06	3.12E-05	3.89E-06	0.019343467
Fermentation	to Propanoate	4.2.1.28	3.28E-07	2.39E-07	1.34E-05	2.69E-06	4.15E-07	2.85E-07	2.30E-07	1.57E-07	0.019343467
Fermentation	to Propanoate	5.4.99.2	5.73E-05	1.08E-05	6.86E-06	2.06E-06	5.56E-05	7.37E-06	3.26E-05	9.94E-06	0.019343467
Fermentation	to Propanoate	6.4.1.1	1.42E-06	4.80E-07	8.78E-06	2.23E-06	1.55E-06	3.99E-07	1.34E-06	2.93E-07	0.019343467
Fermentation	to Short-Chain Fatty Acide	4.2.1.2	1.46E-04	3.10E-05	5.75E-05	7.70E-06	1.49E-04	2.02E-05	9.18E-05	1.57E-05	0.019343467
Fermentation	to Short-Chain Fatty Acide	4.2.1.55	5.75E-06	2.58E-06	1.87E-05	1.78E-06	2.46E-06	1.15E-06	4.84E-06	9.45E-07	0.037234291
Glycan	Biosynthesis	2.4.1.21	6.34E-05	1.92E-05	1.57E-04	6.46E-05	6.15E-05	1.27E-05	9.31E-05	1.26E-05	0.019343467
Glycan	Biosynthesis	2.7.3.11	8.85E-06	2.02E-06	3.11E-05	4.65E-05	6.28E-05	1.21E-05	1.22E-05	1.21E-05	0.019343467
Glycan	Pathways	2.7.7.27	1.00E-05	2.71E-05	2.68E-05	1.45E-05	1.03E-04	2.11E-05	1.60E-04	1.75E-05	0.019343467
Glycan	Pathways	2.7.8.6	6.79E-08	5.77E-08	1.67E-07	0.00E+00	0.00E+00	5.94E-08	5.94E-08	0.045005805	
Glycine	Biosynthesis	1.4.4.2	1.64E-04	3.63E-05	2.18E-05	2.74E-06	1.74E-04	2.82E-05	9.22E-05	2.18E-05	0.019343467
Glycine	Biosynthesis	2.1.2.10	7.95E-05	1.64E-05	1.05E-05	1.77E-06	8.94E-05	1.31E-05	4.46E-05	1.20E-05	0.019343467
Hemiterpenes	Biosynthesis	1.17.7.4	1.11E-04	6.81E-05	6.56E-05	5.65E-06	1.10E-04	5.79E-06	9.03E-06	5.63E-06	0.019343467
Hemiterpenes	Biosynthesis	2.7.7.60	8.60E-05	1.08E-05	4.30E-05	6.23E-06	7.20E-05	5.29E-06	5.92E-06	4.69E-06	0.027230774
Hormone	Degradation	1.1.1.1	4.33E-06	1.42E-06	6.78E-05	1.68E-05	6.40E-06	1.89E-06	1.16E-05	2.19E-06	0.019343467
Hydrogen	Oxidation	1.12.1.3	1.74E-07	1.74E-07	1.91E-05	5.69E-06	8.29E-08	5.09E-08	4.16E-07	2.25E-07	0.019343467
Inorganic	Nutrient	1.4.7.1	3.94E-06	1.51E-06	1.33E-05	1.01E-05	3.36E-06	1.07E-06	7.70E-06	1.25E-06	0.019343467
Inorganic	Nutrient Metabolism	1.7.2.2	6.95E-07	8.63E-08	9.64E-08	9.64E-08	4.74E-07	1.56E-07	8.13E-07	1.82E-07	0.022964654
Inorganic	Nutrient Metabolism	1.9.6.1	3.58E-07	6.14E-08	0.00E+00	0.00E+00	3.22E-07	9.20E-08	2.07E-07	5.99E-08	0.019343467
Inorganic	Nutrient Metabolism	2.4.2.7	1.34E-04	2.06E-05	5.59E-05	3.56E-06	1.34E-04	1.40E-05	9.00E-05	6.09E-06	0.019343467
Inorganic	Nutrient Metabolism	2.6.1.37	1.77E-06	7.27E-07	1.37E-05	3.08E-06	1.45E-06	6.60E-07	5.42E-06	1.02E-06	0.019343467
Inorganic	Nutrient Metabolism	2.7.1.25	8.31E-06	2.91E-06	2.13E-05	1.92E-06	5.97E-06	1.26E-06	1.43E-05	1.36E-06	0.027230774
Inorganic	Nutrient Metabolism	2.7.4.1	3.90E-05	1.12E-05	1.11E-04	2.08E-06	4.08E-05	9.73E-06	7.03E-05	6.77E-06	0.019343467
Inorganic	Nutrient Metabolism	2.7.7.4	6.19E-06	2.09E-06	2.24E-05	2.25E-06	9.21E-06	2.85E-06	2.14E-05	3.18E-06	0.019343467
Inorganic	Nutrient Metabolism	3.11.1.1	0.00E+00	0.00E+00	5.43E-06	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
Inorganic	Nutrient Metabolism	2.8.1.1	7.13E-08	5.22E-08	3.88E-06	1.37E-06	2.95E-08	2.95E-08	6.27E-08	2.70E-08	0.019343467
Inorganic	Nutrient Metabolism	3.1.3.2	4.45E-05	1.11E-05	0.00E+00	0.00E+00	3.30E-05	3.65E-06	1.32E-05	4.63E-06	0.019343467
Inorganic	Nutrient Metabolism	3.6.1.1	2.36E-05	7.01E-06	6.11E-05	7.97E-06	2.57E-05	8.02E-06	3.33E-05	3.85E-06	0.027230774
Inorganic	Nutrient Metabolism	4.1.1.82	6.26E-07	3.30E-07	8.46E-06	1.04E-06	8.05E-07	3.65E-07	2.70E-06	6.58E-07	0.019343467
Inorganic	Nutrient Metabolism	4.4.1.11	1.10E-05	3.79E-05	3.20E-05	3.73E-06	1.01E-05	2.39E-06	1.78E-05	2.83E-06	0.019343467
L-arginine	Biosynthesis	2.1.3.9	2.83E-06	8.70E-07	1.00E-05	2.77E-06	6.54E-07	9.72E-07	3.13E-07	0.019343467	
L-arginine	Biosynthesis	2.3.1.35	4.06E-05	1.37E-05	1.08E-04	7.74E-06	4.04E-05	1.02E-05	6.92E-06	8.69E-06	0.019343467
L-arginine	Biosynthesis	2.6.1.11	3.47E-05	1.11E-05	8.85E-05	8.05E-06	3.39E-05	1.05E-05	5.40E-05	7.35E-06	0.027230774
L-alanine	Biosynthesis	1.4.1.1	2.79E-05	8.41E-06	4.00E-05	0.00E+00	2.22E-05	7.05E-06	7.22E-05	7.05E-06	0.019343467
L-histidine	Biosynthesis	2.6.1.9	7.11E-05	4.72E-05	9.41E-05	3.81E-06	7.70E-05	2.88E-06	7.31E-05	1.34E-05	0.037234291
L-histidine	Biosynthesis	3.1.3.15	4.41E-05	1.19E-05	2.09E-05	4.54E-07	4.77E-05	9.45E-06	2.08E-05	5.73E-06	0.019343467
L-histidine	Biosynthesis	5.3.1.16	5.08E-05	5.16E-05	3.48E-05	4.24E-05	5.36E-05	5.17E-06	3.82E-05	4.22E-06	0.046095542
Lipoate	Biosynthesis	2.3.1.181	1.30E-05	3.57E-04	2.00E-08	2.05E-08	2.05E-08	2.25E-05	4.34E-06	1.86E-05	0.019343467
Lipoate	Biosynthesis	2.8.1.8	2.59E-05	5.85E-05	2.05E-08	2.05E-08	2.05E-08	2.25E-05	4.34E-06	1.86E-05	0.019343467
L-isoleucine	Biosynthesis	1.3.1.2	1.35E-04	1.35E-04	2.23E-04	1.56E-05	1.35E-04	1.29E-06	9.55E-06	2.64E-06	0.019343467
L-isoleucine	Biosynthesis	1.3.1.18	3.04E-05	1.01E-05	8.85E-05	8.22E-06	4.53E-05	8.22E-06	6.79E-06	5.00E-06	0.019343467
L-isoleucine	Biosynthesis	1.7.1.18	3.41E-05	1.21E-05	8.85E-05	8.22E-06	4.53E-05	8.22E-06	6.79E-06	5.00E-06	0.027230774
L-isoleucine	Biosynthesis	2.3.1.19	2.31E-07	2.31E-07	7.81E-06	2.02E-05	6.52E-06	6.52E-07	1.35E-07	1.35E-07	
L-isoleucine	Biosynthesis	2.3.1.39	2.04E-06	5.27E-06	5.12E-06	9.13E-07	1.41E-06	3.90E-07	3.86E-06	5.18E-07	0.037234291
L-isoleucine	Biosynthesis	3.5.1.18	1.04E-05	4.78E-06	4.24E-05	8.36E-06	3.28E-07	1.50E-07	9.03E-07	1.88E-07	0.019343467
L-isoleucine	Biosynthesis	3.5.1.47	4.27E-07	3.10E-07	5.70E-06	1.64E-06	1.01E-06	4.06E-07	3.01E-07	2.09E-07	0.027230774
L-isoleucine	Biosynthesis	4.1.1.20	5.74E-05	8.19E-06	2.79E-05	1.54E-06	7.54E-05	9.47E-06	4.60E-05	7.08E-06	0.019343467
L-lysine	Biosynthesis	4.2.1.36	1.37E-06	2.15E-06	7.03E-07	9.80E-07	6.25E-08	1.20E-07	5.33E-08	0.019343467	
L-methionine	Biosynthesis	1.2.1.11	1.34E-04	2.41E-05	6.64E-05	4.24E-06	1.33E-04	1.07E-05	9.08E-05	1.13E-05	0.019343467
L-methionine	Biosynthesis	2.3.1.46	1.07E-05	1.07E-05	1.30E-05	7.21E-07	1.07E-05	0.00E+00	0.00E+00	9.36E-05	0.031375886
L-phenylalanine	Biosynthesis	4.2.1.41	1.87E-06	1.87E-06	2.37E-06	4.02E-06	5.81E-06	1.31E-09	1.32E-05	8.12E-07	0.019343467
L-selenocysteine	Biosynthesis	2.7.9.3	1.11E-05	3.56E-06	2.20E-05	1.79E-06	9.13E-06	2.91E-06	1.70E-05	3.49E-06	0.037234291
L-selenocysteine	Biosynthesis	2.9.1.11	1.34E-06	3.03E-05	1.09E-05	1.86E-06	1.28E-06	3.18E-07	2.29E-06	4.06E-07	0.019343467
L-selenocysteine	Biosynthesis	6.1.1.11	2.35E-05	5.81E-05	3.88E-05	1.11E-06	2.93E-05	3.15E-06	4.20E-05	1.32E-06	0.019343467
L-serine	Biosynthesis	1.11.1.29	1.25E-06	4.48E-07	1.74E-05	2.58E-06	1.44E-07	4.40E-07	2.20E-06	3.65E-07	0.019343467
L-serine	Biosynthesis	1.1.1.95	3.98E-06	9.80E-07	2.85E-05	4.94E-06	3.52E-06	2.89E-07	6.08E-06	9.15E-07	0.019343467
L-serine	Biosynthesis	3.1.3.18	5.37E-07	1.05E-05	2.90E-06	5.89E-07	1.95E-07	1.18E-06	3.15E-07	0.019343467	
L-threonine	Biosynthesis	4.2.3.31	1.53E-06	5.53E-06	5.57E-06	5.17E-06	1.61E-05	2.29E-06	2.85E-06	3.22E-06	0.019343467
L-tryptophan	Biosynthesis	5.3.24.24	8.48E-06	2.01E-05	3.01E-06	5.17E-05	2.09E-06	2.05E-05	2.05E-05	1.40E-06	0.019343467
L-valine	Biosynthesis	2.2.1.16	2.18E-06	3.64E-05	4.89E-04	1.41E-05	2.23E-04	2.70E-05	3.26E-04	2.38E-05	0.019343467
Molybdenum-Containing Cofactor	Biosynthesis	4.1.99.22	2.04E-06	6.74E-07	1.42E-05	3.14E-06	3.06E-06	1.46E-06	3.25E-06	6.14E-07	0.027230774
Molybdenum-Containing Cofactor	Biosynthesis	4.6.1.17	5.50E-06	1.46E-06	2.64E-05	3.63E-06	7.86E-06	2.24E-06	8.69E-06	1.35E-06	0.019343467
Nitrogen-Containing Secondary Biosy.3.1.30	Compound	7.36E-05	1.02E-05	1.31E-04	1.13E-05	8.16E-05					

Nucleoside	and Nucleotide Degradation	4.38E-08	4.38E-08	6.76E-06	1.69E-06	0.09E+00	0.00E+00	7.13E-08	4.38E-08	0.019343467
Nucleoside	2.7.1.100 and Nucleotide Degradation	2.02E-06	9.17E-07	7.17E-06	7.78E-07	1.48E-06	7.70E-07	2.65E-06	4.63E-07	0.027230774
Nucleoside	2.7.1.83 and Nucleotide Degradation	5.74E-05	1.22E-05	1.51E-06	8.13E-07	5.21E-05	6.11E-06	2.33E-05	6.82E-06	0.019343467
Nucleoside	3.1.3.5 and Nucleotide Degradation	3.69E-05	8.76E-06	0.00E+00	0.00E+00	4.46E-05	1.06E-05	2.16E-05	6.38E-06	0.019343467
Nucleoside	3.5.1.10 and Nucleotide Degradation	7.97E-07	5.00E-07	6.23E-06	1.21E-06	6.81E-07	3.12E-07	1.70E-06	3.72E-07	0.019343467
Nucleoside	3.5.4.3 and Nucleotide Degradation	1.47E-07	6.12E-08	1.96E-06	6.69E-07	6.02E-07	1.63E-07	1.13E-06	4.21E-07	0.019343467
Nucleoside	3.5.4.4 and Nucleotide Degradation	2.06E-05	6.58E-06	5.09E-05	7.73E-06	1.86E-05	4.76E-06	2.96E-05	3.84E-06	0.037234291
Nucleoside	3.5.1.23 and Nucleotide Degradation	3.50E-05	1.15E-05	9.30E-05	4.22E-06	3.96E-05	1.04E-05	5.91E-05	7.41E-06	0.019343467
Peptidoglycan	Biosynthesis	5.17E-06	1.45E-06	2.49E-05	3.00E-06	5.13E-06	1.18E-06	8.41E-06	1.85E-06	0.019343467
Phosphatidylserine	3.4.16.4 Biosynthesis	6.96E-05	1.91E-05	1.01E-06	2.39E-07	6.93E-05	1.47E-05	2.45E-05	6.44E-06	0.019343467
Plant	Hormone Biosynthesis	1.32E-04	1.84E-05	5.75E-05	4.73E-06	1.26E-04	1.07E-05	9.05E-05	1.51E-05	0.027230774
Polymeric	5.66E-05	1.86E-05	1.49E-04	4.67E-06	5.05E-05	1.48E-05	8.45E-05	1.35E-05	0.019343467	
Polymeric	2.4.1.25 Compound Degradation	9.94E-05	2.04E-05	6.41E-07	3.31E-07	1.21E-04	2.30E-05	6.02E-05	1.51E-05	0.019343467
Polymeric	3.1.1.11 Compound Degradation	2.41E-07	1.30E-07	2.01E-06	6.99E-07	3.30E-07	2.10E-07	8.03E-07	1.41E-07	0.037234291
Polymeric	3.2.1.179 Compound Degradation	4.52E-06	1.74E-06	1.94E-05	4.74E-06	5.14E-06	1.50E-06	9.46E-06	2.55E-06	0.037234291
Polymeric	3.2.1.37 Compound Degradation	1.22E-06	4.18E-07	1.13E-05	3.34E-06	7.15E-07	1.84E-07	1.95E-06	4.84E-07	0.037234291
Polymeric	3.2.1.4 Compound Degradation	3.76E-05	1.14E-05	0.00E+00	0.00E+00	4.05E-05	9.02E-06	1.48E-05	2.88E-06	0.019343467
Polyprenyl	3.2.1.78 Biosynthesis	1.02E-06	5.08E-07	5.31E-06	1.27E-06	1.22E-06	4.79E-07	1.46E-06	4.94E-07	0.037234291
Polyprenyl	2.5.1.10 Biosynthesis	2.33E-06	3.25E-07	1.36E-05	1.48E-06	3.13E-06	6.85E-07	2.11E-06	3.97E-07	0.019343467
Polyprenyl	2.5.1.30 Biosynthesis	2.32E-06	1.19E-06	0.00E+00	0.00E+00	1.99E-06	4.24E-07	1.22E-06	5.14E-07	0.019343467
Proteinogenic	5.3.3.2 Amino Acid Biosynthesis	7.37E-05	1.26E-05	1.21E-04	6.72E-06	7.97E-05	6.09E-06	1.03E-04	7.18E-06	0.019343467
Proteinogenic	4.3.2.1 Amino Acid Biosynthesis	5.71E-05	1.58E-05	1.68E-04	8.17E-06	6.14E-05	1.29E-05	1.03E-04	8.76E-06	0.019343467
Purine	6.1.1.23 Nucleotide Salvage	2.34E-05	6.89E-06	7.44E-05	4.31E-06	2.09E-05	5.24E-06	3.90E-05	4.87E-06	0.019343467
Purine	2.4.2.22 Nucleotide Salvage	1.31E-06	9.20E-07	0.00E+00	0.00E+00	1.61E-06	7.22E-07	5.74E-07	2.27E-07	0.028030807
Putrescine	4.1.1.19 Biosynthesis	9.59E-05	2.41E-05	9.34E-06	4.08E-06	1.04E-04	2.07E-05	4.94E-05	1.25E-05	0.019343467
Pyrimidine	7.66E-05	2.14E-05	1.71E-04	1.02E-05	8.10E-05	1.38E-05	1.10E-04	7.90E-06	0.019343467	
Pyrimidine	2.4.2.9 Nucleotide Salvage	1.24E-04	1.96E-05	2.83E-05	5.64E-06	1.25E-04	1.55E-05	7.65E-05	1.53E-05	0.019343467
Pyrimidine	2.7.1.21 Nucleotide Salvage	9.01E-05	1.39E-05	4.13E-05	4.80E-06	9.77E-05	1.35E-05	5.77E-05	1.00E-05	0.037234291
Pyrimidine	2.7.1.48 Nucleotide Salvage	5.73E-08	5.73E-08	4.12E-06	1.19E-06	9.13E-08	9.13E-08	2.12E-07	1.39E-07	0.019343467
Pyrimidine	2.7.4.14 Nucleotide Salvage	1.02E-04	1.04E-05	6.10E-05	6.17E-06	9.62E-05	6.70E-06	7.45E-05	8.21E-06	0.027230774
Pyrimidine	2.7.4.25 Nucleotide Salvage	6.43E-06	1.68E-06	1.14E-06	3.01E-07	5.11E-06	1.49E-06	5.19E-06	1.45E-06	0.019343467
Pyruvate	Fermentation	3.94E-07	1.37E-07	0.00E+00	0.00E+00	1.13E-07	1.13E-07	7.02E-07	2.19E-07	0.028030807
	Acetoin	1.1.1.304								
Secondary	Metabolite Degradation	1.11E-05	2.95E-06	4.73E-05	9.29E-06	8.75E-06	1.43E-06	1.40E-05	2.46E-06	0.037234291
Secondary	1.1.1.14 Metabolite Degradation	1.41E-06	5.25E-07	6.95E-06	2.56E-06	1.28E-06	1.15E-07	3.86E-06	7.75E-07	0.037234291
Secondary	1.1.1.140 Metabolite Degradation	2.48E-06	8.97E-07	1.74E-05	3.00E-06	3.48E-06	1.72E-06	5.11E-06	1.09E-06	0.037234291
Secondary	1.1.1.57 Metabolite Degradation	6.32E-05	1.41E-05	2.10E-05	2.64E-06	7.39E-05	1.32E-05	4.15E-05	5.24E-06	0.019343467
Secondary	1.1.1.58 Metabolite Degradation	3.09E-06	1.24E-06	1.83E-05	4.24E-06	2.95E-06	1.41E-06	3.50E-06	1.16E-06	0.019343467
Secondary	1.1.1.60 Metabolite Degradation	0.00E+00	0.00E+00	9.64E-07	1.18E-07	0.00E+00	0.00E+00	2.42E-08	2.42E-08	0.019343467
Secondary	1.1.7.5.2 Metabolite Degradation	1.80E-06	5.57E-07	7.86E-06	1.70E-06	2.05E-06	4.97E-07	4.25E-06	6.54E-07	0.037234291
Secondary	2.3.1.245 Metabolite Degradation	3.95E-05	1.18E-05	8.32E-05	9.07E-06	3.81E-05	7.69E-06	5.07E-05	5.12E-06	0.027230774
Secondary	2.7.1.144 Metabolite Degradation	3.13E-07	1.30E-07	2.36E-06	5.56E-07	2.94E-07	1.81E-07	7.58E-07	1.34E-07	0.019343467
Secondary	2.7.1.189 Metabolite Degradation	4.36E-07	2.10E-07	4.84E-06	1.37E-06	9.86E-07	4.37E-07	2.18E-06	4.45E-07	0.019343467
Secondary	3.1.1.83 Metabolite Degradation	9.58E-06	1.65E-06	5.40E-05	8.89E-06	9.24E-06	1.30E-06	1.17E-05	1.31E-06	0.019343467
Secondary	3.2.1.21 Metabolite Degradation	4.69E-07	2.54E-07	4.47E-06	9.09E-07	2.55E-07	1.58E-07	7.90E-07	2.44E-07	0.019343467
Secondary	3.2.1.31 Metabolite Degradation	7.92E-07	3.45E-07	7.20E-06	1.60E-06	1.18E-06	1.89E-07	2.50E-06	5.14E-07	0.019343467
Secondary	3.2.1.31 Metabolite Degradation	1.07E-05	1.93E-06	5.23E-05	6.90E-06	9.96E-06	1.42E-06	2.00E-05	3.07E-06	0.019343467
Secondary	3.5.3.1 Metabolite Degradation	4.69E-07	2.54E-07	4.47E-06	9.09E-07	2.55E-07	1.58E-07	7.90E-07	2.44E-07	0.019343467
Secondary	4.1.2.20 Metabolite Degradation	1.27E-06	6.04E-07	1.67E-05	5.61E-06	1.67E-06	5.91E-07	2.60E-06	4.76E-07	0.019343467
Secondary	4.2.1.36 Metabolite Degradation	3.31E-06	1.29E-06	2.66E-05	6.79E-06	3.35E-06	5.35E-07	7.12E-06	2.19E-06	0.019343467
Secondary	4.2.1.42 Metabolite Degradation	1.58E-05	5.60E-06	4.26E-05	3.05E-06	1.51E-05	5.59E-06	2.30E-05	3.95E-06	0.019343467
Secondary	4.2.1.44 Metabolite Degradation	3.87E-07	2.40E-07	7.64E-06	1.63E-06	4.76E-07	1.29E-07	1.32E-06	3.67E-07	0.019343467
Secondary	4.2.1.65 Metabolite Degradation	9.48E-07	4.49E-07	1.87E-05	3.93E-06	4.86E-07	3.35E-07	1.80E-06	3.36E-07	0.019343467
Secondary	4.2.1.8 Metabolite Degradation	1.27E-04	4.86E-06	1.83E-04	1.30E-05	1.13E-04	2.76E-06	1.05E-04	4.07E-06	0.019343467
Secondary	4.2.1.8 Metabolite Degradation	1.27E-04	4.86E-06	1.83E-04	1.30E-05	1.13E-04	2.76E-06	1.05E-04	4.07E-06	0.019343467

Secondary	Metabolite Degradation	9.76E-05	8.63E-06	5.67E-05	3.73E-06	9.04E-05	5.09E-06	6.98E-05	3.27E-06	0.019343467
Secondary	5.3.1.17 Metabolite Degradation	6.08E-05	1.76E-05	1.54E-04	8.97E-06	6.01E-05	1.44E-05	9.18E-05	1.07E-05	0.019343467
Single	5.4.2.10 Carbon Cycle	6.24E-05	1.05E-05	2.04E-05	3.29E-06	5.31E-05	5.73E-06	3.90E-05	5.87E-06	0.019343467
Stearate	4.1.2.25 Biosynthesis	8.99E-05	2.02E-05	8.50E-07	4.26E-07	1.06E-04	1.76E-05	5.79E-05	1.55E-05	0.019343467
Stickland	1.31.9 Fermentation (Oxidative Branch)	1.82E-05	5.48E-06	4.64E-05	4.75E-06	2.53E-05	3.28E-06	3.59E-05	1.65E-06	0.019343467
Stickland	2.6.1.42 Fermentation (Reductive Branch)	0.00E+00	0.00E+00	6.68E-06	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
Sugar	1.31.95 Alcohol Biosynthesis	2.54E-07	1.59E-07	8.51E-06	2.11E-06	2.71E-07	1.18E-07	3.38E-07	1.01E-07	0.019343467
Sugar	1.39.28 Nucleotide Biosynthesis	9.91E-05	8.31E-06	5.40E-05	3.58E-06	1.05E-04	7.50E-06	7.95E-05	1.03E-05	0.019343467
Sugar	1.1.1.22 Nucleotide Biosynthesis	5.08E-05	9.79E-06	1.67E-06	4.55E-07	6.40E-05	9.99E-06	3.81E-05	1.13E-05	0.019343467
Sugar	2.5.1.55 Nucleotide Biosynthesis	4.19E-06	1.43E-06	1.77E-05	6.78E-06	4.89E-06	1.53E-06	9.82E-06	2.12E-06	0.027230774
Sugar	2.5.1.57 Nucleotide Biosynthesis	5.71E-06	1.41E-06	1.85E-05	6.48E-06	5.86E-06	1.79E-06	1.20E-05	1.10E-06	0.027230774
Sugar	2.6.1.59 Nucleotide Biosynthesis	3.21E-07	1.65E-07	7.89E-06	2.54E-06	3.07E-07	8.46E-08	9.77E-07	6.70E-08	0.037234291
Sugar	2.6.1.98 Nucleotide Biosynthesis	3.73E-07	7.83E-08	1.29E-05	2.62E-06	1.04E-06	3.57E-07	2.23E-06	6.83E-07	0.019343467
Sugar	2.7.1.12 Nucleotide Biosynthesis	1.15E-05	2.24E-06	1.67E-06	6.59E-07	1.07E-05	9.06E-07	7.96E-06	2.65E-06	0.019343467
Sugar	2.7.7.38 Nucleotide Biosynthesis	6.09E-06	1.89E-06	2.39E-05	9.34E-06	6.75E-06	2.02E-06	1.36E-05	2.18E-06	0.037234291
Sugar	4.2.1.15 Nucleotide Biosynthesis	3.09E-06	1.11E-06	2.13E-05	4.96E-06	3.23E-06	7.57E-07	8.49E-06	2.02E-06	0.019343467
Sugar	4.2.1.45 Nucleotide Biosynthesis	6.83E-05	7.56E-06	1.09E-04	7.11E-06	7.27E-05	5.25E-06	9.11E-05	4.42E-06	0.037234291
Sugar	4.2.1.46 Nucleotide Biosynthesis	1.81E-05	3.22E-06	4.78E-05	5.57E-06	1.59E-05	1.63E-06	2.26E-05	1.53E-06	0.019343467
Sugar	5.1.3.14 Nucleotide Biosynthesis	1.07E-07	6.94E-08	3.47E-06	9.10E-07	7.35E-08	7.35E-08	2.42E-07	1.17E-07	0.037234291
Sugar	5.3.1.13 Nucleotide Biosynthesis	6.45E-06	1.92E-06	2.15E-05	2.11E-06	6.04E-06	1.42E-06	1.25E-05	1.78E-06	0.019343467
Sulfur-Containing	Secondary Biosynth2.14.1 Compound	6.72E-07	2.15E-07	0.00E+00	0.00E+00	5.08E-07	1.51E-07	3.59E-07	1.05E-07	0.019343467
Teichoic Acid Biosynthesis	2.7.1.107	5.68E-07	2.34E-07	7.94E-06	1.72E-06	5.42E-07	1.60E-07	1.37E-06	2.35E-07	0.019343467
Teichoic Acid Biosynthesis	2.7.8.5	9.23E-06	2.33E-06	4.26E-05	5.13E-06	9.77E-06	1.90E-06	1.54E-05	1.51E-06	0.019343467
Utilization	1.1.1.244	5.69E-07	2.81E-07	1.32E-05	2.98E-05	3.92E-07	2.50E-07	4.15E-07	2.08E-07	0.019343467
Utilization	1.1.1.38	3.93E-06	1.13E-06	1.60E-05	1.02E-05	2.82E-06	1.07E-06	4.52E-06	5.88E-07	0.037234291
Utilization	1.1.2.7.3	0.00E+00	0.00E+00	1.41E-05	3.02E-07	8.30E-08	5.14E-08	0.00E+00	0.00E+00	0.0313902
Utilization	2.6.1.1	1.75E-06	5.77E-06	4.71E-07	2.58E-07	2.01E-05	3.71E-06	8.39E-06	2.01E-06	0.019343467
Utilization	5.3.1.27	7.17E-08	7.17E-08	2.81E-06	7.66E-07	1.03E-07	1.03E-07	2.18E-07	6.10E-08	0.045005805
Utilization	5.3.1.6	1.22E-05	3.09E-06	4.93E-05	7.75E-06	1.25E-05	2.06E-06	2.01E-05	2.34E-06	0.019343467
Utilization	6.3.4.14	3.04E-05	8.14E-06	8.67E-05	1.29E-05	3.49E-05	6.51E-06	4.48E-05	5.94E-06	0.019343467
Vitamin Biosynthesis	2.1.1.45	8.86E-05	8.83E-06	5.03E-05	4.22E-06	9.24E-05	6.59E-06	7.55E-05	7.95E-06	0.019343467
	2.5.1.7	1.25E-04	1.42E-04	2.15E-04	1.29E-05	1.35E-04	8.56E-06	1.59E-04	8.21E-06	0.019343467
	6.3.2.13	1.50E-04	2.23E-05	7.85E-05	8.79E-06	1.53E-04	1.47E-05	1.09E-04	1.24E-05	0.037234291
	6.3.2.4	9.18E-05	1.08E-05	1.37E-04	6.70E-06	9.34E-05	5.99E-06	1.01E-04	3.29E-06	0.037234291
	6.3.2.7	0.00E+00	0.00E+00	4.97E-06	1.36E-06	0.00E+00	0.00E+00	4.81E-08	4.81E-08	0.019343467
	6.3.2.9	1.31E-04	1.36E-05	7.19E-05	1.01E-05	1.31E-04	1.21E-05	9.51E-05	9.11E-06	0.027230774
	11.1.103	1.11E-05	2.62E-06	3.25E-05	6.11E-06	1.62E-05	2.68E-06	1.71E-05	2.40E-06	0.027230774
	11.1.130	1.14E-06	3.51E-07	2.52E-05	7.38E-06	1.18E-06	1.69E-07	1.76E-06	1.66E-07	0.019343467
	11.1.157	1.69E-05	6.39E-06	6.70E-05	4.22E-06	1.62E-05	5.90E-06	2.99E-05	5.64E-06	0.019343467
	11.1.12	1.33E-07	5.64E-08	4.90E-06	1.60E-06	2.26E-07	1.39E-07	4.89E-07	1.10E-07	0.019343467
	11.1.25	8.98E-05	7.27E-06	5.51E-05	2.60E-06	9.69E-05	5.22E-06	6.67E-05	5.18E-06	0.019343467
	114.13.48	5.09E-08	5.09E-08	1.78E-05	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
	11.1.261	4.57E-07	2.42E-07	7.72E-06	2.04E-06	9.66E-07	3.02E-07	2.23E-06	2.31E-07	0.019343467
	11.1.271	1.26E-04	2.02E-05	6.45E-05	8.01E-06	1.48E-04	1.47E-05	1.01E-04	1.08E-05	0.037234291
	2.1.3.6	3.06E-08	3.06E-08	6.25E-07	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.045005805
	11.1.13	4.55E-05	1.23E-05	1.04E-04	8.60E-06	4.91E-05	9.90E-06	7.33E-05	7.19E-06	0.027230774
	11.1.301	4.37E-07	1.39E-07	1.95E-06	3.81E-07	9.54E-07	5.56E-07	1.63E-06	3.02E-07	0.037234291
	11.1.47	8.17E-07	3.29E-07	7.41E-08	5.33E-08	2.40E-07	1.16E-07	1.15E-06	5.46E-07	0.027214809
	11.1.79	6.36E-08	3.90E-08	9.05E-06	2.59E-06	3.15E-07	2.24E-07	1.52E-07	1.18E-07	0.019343467
	11.1.85	1.10E-04	7.60E-06	1.50E-04	6.87E-06	1.14E-04	4.12E-06	1.13E-04	4.76E-06	0.019343467
	3.1.11.5	3.19E-08	3.19E-08	4.38E-06	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
	11.1.91	5.25E-06	1.46E-06	0.00E+00	0.00E+00	5.49E-06	1.45E-06	2.23E-06	7.68E-07	0.019343467
	11.3.15	1.91E-07	1.43E-07	1.23E-05	3.66E-06	1.41E-07	9.28E-08	5.86E-07	1.59E-07	0.019343467
	11.1.11	1.55E-05	3.70E-06	5.97E-05	4.41E-06	1.75E-05	3.94E-06	2.03E-05	2.72E-06	0.019343467
	11.1.15	4.59E-05	1.13E-05	1.51E-05	2.19E-06	4.81E-05	9.09E-06	2.31E-05	4.67E-06	0.024850858
	11.1.276	0.00E+00	0.00E+00	4.37E-06	9.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
	113.12.16	5.52E-06	1.72E-06	2.38E-05	2.79E-06	5.80E-06	1.62E-06	8.28E-06	1.18E-06	0.019343467
	115.1.2	1.28E-07	8.77E-08	4.93E-06	1.40E-06	3.93E-07	1.71E-07	4.12E-08	4.12E-08	0.019343467
	116.3.1	8.15E-06	2.86E-06	0.00E+00	0.00E+00	6.72E-06	2.51E-06	5.89E-06	2.51E-06	0.019343467
	116.3.2	9.17E-05	6.80E-06	5.97E-05	3.28E-06	1.03E-04	9.88E-06	7.14E-05	7.85E-06	0.019343467
	117.4.2	2.54E-05	7.61E-06	7.64E-05	8.66E-06	2.97E-05	4.53E-06	4.68E-05	3.26E-06	0.019343467
	118.6.1	1.51E-07	1.04E-07	6.35E-06	2.16E-06	7.89E-08	7.89E-08	5.23E-08	5.23E-08	0.019343467
	12.1.10	5.59E-07	3.05E-07	5.15E-06	1.50E-06	2.43E-07	1.56E-07	3.93E-07	1.23E-07	0.027230774

1.2.1.58	7.37E-08	7.37E-08	1.26E-06	4.70E-07	9.94E-08	9.94E-08	0.00E+00	0.00E+00	0.019343467
1.1.1.93	0.00E+00	0.00E+00	8.38E-07	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031375386
1.2.1.70	8.29E-06	2.66E-06	3.19E-05	3.11E-06	1.13E-05	1.95E-06	1.51E-05	4.79E-07	0.019343467
1.2.4.2	6.62E-07	1.89E-07	0.00E+00	0.00E+00	4.57E-06	1.16E-06	4.56E-06	1.47E-06	0.019343467
1.2.4.4	0.00E+00	0.00E+00	3.64E-06	7.12E-07	5.59E-07	2.27E-07	1.28E-06	4.28E-07	0.019343467
1.2.99.2	3.28E-06	7.94E-07	1.31E-05	2.25E-06	2.96E-06	6.63E-07	4.33E-06	3.74E-07	0.019343467
1.2.99.5	1.94E-07	8.40E-08	9.01E-07	1.93E-07	7.89E-08	4.83E-08	6.80E-07	2.21E-07	0.037234291
1.2.99.7	1.01E-06	4.98E-07	9.83E-06	1.73E-06	4.67E-07	2.27E-07	1.88E-06	4.76E-07	0.019343467
13.1.1	0.00E+00	0.00E+00	8.69E-07	2.56E-07	5.30E-08	5.30E-08	0.00E+00	0.00E+00	0.031375386
13.1.31	0.00E+00	0.00E+00	4.27E-06	1.25E-06	0.00E+00	0.00E+00	2.69E-08	2.69E-08	0.019343467
13.1.34	6.34E-08	6.34E-08	1.39E-06	4.49E-07	0.00E+00	0.00E+00	9.28E-08	8.28E-08	0.045005805
13.5.1	5.64E-06	1.51E-06	5.58E-08	5.58E-08	9.18E-06	2.23E-06	8.15E-06	2.19E-06	0.019343467
1.16.1.1	0.00E+00	0.00E+00	1.63E-06	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031375386
13.7.9	5.48E-08	5.48E-08	3.66E-06	8.94E-07	7.61E-07	7.61E-07	2.62E-07	1.20E-07	0.019343467
13.99.1	1.37E-05	4.17E-06	8.01E-08	5.11E-08	1.08E-05	3.41E-06	8.82E-06	3.28E-06	0.019343467
13.99.2	6.32E-07	2.35E-07	2.95E-06	4.18E-07	8.23E-07	9.14E-08	1.75E-06	4.15E-07	0.019343467
13.99.22	4.96E-07	1.84E-07	5.86E-06	1.18E-06	6.31E-07	2.70E-07	8.72E-07	3.05E-07	0.019343467
1.18.1.3	0.00E+00	0.00E+00	8.51E-06	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
15.1.36	2.14E-06	1.58E-06	0.00E+00	0.00E+00	3.04E-06	9.80E-07	8.46E-07	4.57E-07	0.028030807
16.5.11	5.67E-04	1.49E-04	2.89E-05	7.26E-06	6.06E-04	1.13E-04	2.87E-04	8.30E-05	0.019343467
16.99.3	1.03E-07	6.58E-08	1.19E-06	2.93E-07	4.04E-07	3.61E-07	0.00E+00	0.00E+00	0.027230774
17.1.13	9.96E-05	1.83E-05	1.93E-05	5.13E-06	1.06E-04	1.39E-05	6.57E-05	1.06E-05	0.019343467
17.1.7	2.41E-06	1.75E-06	0.00E+00	0.00E+00	3.82E-06	1.58E-06	1.08E-06	7.01E-07	0.028030807
17.99.4	4.17E-07	1.58E-07	8.30E-06	3.02E-06	3.28E-07	1.52E-07	4.70E-07	4.75E-08	0.019343467
18.1.14	1.11E-06	4.60E-07	7.49E-06	7.74E-07	1.16E-06	4.81E-07	3.00E-06	6.17E-07	0.019343467
18.4.2	3.05E-06	1.07E-06	0.00E+00	0.00E+00	3.92E-06	5.18E-07	2.04E-06	1.17E-06	0.019343467
15.1.24	0.00E+00	0.00E+00	1.06E-06	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
197.1.4	2.29E-05	6.68E-06	6.17E-05	7.86E-06	2.91E-05	5.02E-06	4.26E-05	2.57E-06	0.027230774
2.1.1.171	4.91E-06	1.78E-06	2.07E-05	2.23E-06	4.61E-06	1.37E-06	7.42E-06	9.79E-07	0.019343467
2.1.1.173	3.38E-06	1.01E-06	8.78E-06	9.80E-07	3.37E-06	8.10E-07	6.48E-06	8.34E-07	0.037234291
2.1.1.176	7.66E-06	2.73E-06	2.71E-05	4.02E-06	8.93E-06	3.11E-06	1.36E-05	1.14E-06	0.027230774
2.1.1.177	8.77E-05	8.66E-06	5.12E-05	5.80E-06	9.76E-05	6.66E-06	6.89E-05	7.88E-06	0.027230774
2.1.1.187	1.24E-07	1.24E-07	7.86E-06	2.75E-06	0.00E+00	0.00E+00	4.76E-07	1.96E-07	0.019343467
2.1.1.189	1.43E-06	4.68E-07	1.15E-05	1.91E-06	1.72E-06	6.63E-07	2.74E-06	7.87E-07	0.019343467
2.1.1.190	1.11E-05	3.65E-06	3.69E-05	9.37E-06	1.15E-05	3.01E-06	2.00E-05	1.42E-06	0.027230774
2.1.1.191	4.88E-06	1.92E-06	2.87E-05	4.20E-06	4.78E-06	1.93E-06	8.82E-06	1.43E-06	0.019343467
2.1.1.193	7.50E-05	8.77E-06	4.41E-05	3.55E-06	8.83E-05	8.58E-06	6.27E-05	7.81E-06	0.037234291
2.1.1.197	2.19E-05	6.35E-06	4.21E-06	1.11E-06	1.32E-05	2.01E-06	4.63E-06	1.02E-06	0.027230774
2.1.1.207	4.65E-05	1.50E-05	9.88E-05	7.09E-06	4.79E-05	1.07E-05	7.47E-05	8.04E-06	0.037234291
2.1.1.208	1.83E-06	7.93E-07	0.00E+00	0.00E+00	1.32E-06	3.46E-07	2.25E-06	4.75E-07	0.019343467
2.1.1.217	0.00E+00	0.00E+00	3.90E-06	1.01E-06	8.55E-08	8.55E-08	0.00E+00	0.00E+00	0.019343467
2.1.1.34	1.25E-05	4.30E-06	1.51E-07	1.06E-07	9.42E-06	3.93E-06	8.87E-06	2.76E-06	0.019343467
2.1.1.79	4.53E-08	4.53E-08	1.67E-06	5.30E-07	4.74E-07	3.74E-07	6.30E-07	3.25E-07	0.027214809
2.1.1.80	1.23E-06	3.88E-07	6.51E-06	8.48E-07	7.13E-07	4.93E-07	1.08E-06	3.78E-07	0.019343467
2.1.2.5	3.65E-06	9.06E-07	0.00E+00	0.00E+00	3.94E-06	7.78E-07	1.85E-06	5.11E-07	0.019343467
2.1.3.3	7.11E-05	2.19E-05	1.66E-04	1.05E-05	6.91E-05	1.50E-05	1.13E-04	1.30E-05	0.027230774
2.2.1.10	6.26E-08	6.26E-08	1.54E-06	6.09E-07	2.88E-07	1.48E-07	5.10E-07	2.44E-07	0.045005805
2.3.1.1	4.06E-05	1.37E-05	1.08E-04	7.74E-06	4.04E-05	1.02E-05	6.92E-05	8.69E-06	0.019343467
2.1.1.132	0.00E+00	0.00E+00	7.52E-07	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
2.1.1.151	0.00E+00	0.00E+00	4.78E-06	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
2.3.1.18	7.46E-07	3.63E-07	9.62E-06	7.48E-07	8.69E-07	2.99E-07	1.98E-06	5.22E-07	0.019343467
2.3.1.266	8.51E-06	3.07E-06	3.36E-05	3.45E-06	6.76E-06	1.58E-06	1.12E-05	1.84E-06	0.019343467
2.3.1.79	5.54E-07	3.49E-07	1.08E-05	2.49E-06	7.23E-07	3.79E-07	2.02E-06	2.36E-07	0.019343467
2.3.1.n2	5.95E-05	1.58E-05	1.18E-04	6.68E-06	5.77E-05	1.10E-05	8.28E-05	5.90E-06	0.019343467
2.3.1.n3	3.56E-05	9.09E-06	7.09E-05	6.88E-06	4.01E-05	5.34E-06	5.97E-05	5.89E-06	0.037234291
2.3.2.2	0.00E+00	0.00E+00	2.29E-06	8.00E-07	0.00E+00	0.00E+00	4.26E-08	4.26E-08	0.031375386
2.3.2.3	1.46E-05	5.31E-06	4.67E-05	4.51E-06	1.74E-05	3.94E-06	2.04E-05	9.79E-07	0.019343467
2.4.1.11	1.07E-04	2.92E-05	2.59E-04	1.24E-05	1.01E-04	2.21E-05	1.61E-04	1.76E-05	0.019343467
2.4.1.20	9.10E-07	3.78E-07	0.00E+00	0.00E+00	2.61E-06	1.31E-06	2.72E-06	1.20E-06	0.028030807
2.4.1.211	1.30E-05	4.17E-06	5.35E-05	5.92E-06	1.02E-05	3.03E-06	1.86E-05	2.38E-06	0.019343467

2.4.1.212	1.83E-06	5.15E-07	1.15E-05	2.05E-06	2.27E-06	4.92E-07	4.75E-06	1.09E-06	0.019343467
2.4.99.17	2.31E-04	2.69E-05	1.23E-04	5.00E-06	2.28E-04	2.08E-05	1.65E-04	2.03E-05	0.019343467
2.5.1.17	2.35E-07	1.64E-07	1.36E-05	3.34E-06	5.08E-07	3.02E-07	5.83E-07	3.72E-07	0.019343467
2.5.1.47	8.51E-05	1.44E-05	1.76E-04	1.21E-05	8.43E-05	1.32E-05	1.16E-04	1.19E-05	0.027230774
2.5.1.54	5.92E-05	1.61E-05	1.44E-04	6.24E-06	6.05E-05	1.26E-05	8.93E-05	9.92E-06	0.019343467
2.5.1.61	1.08E-05	3.69E-06	4.60E-05	4.94E-06	1.37E-05	2.52E-06	2.14E-05	1.46E-06	0.019343467
2.6.1.21	0.00E+00	0.00E+00	2.18E-06	7.71E-07	0.00E+00	0.00E+00	2.55E-07	1.27E-07	0.019343467
2.7.1.156	0.00E+00	0.00E+00	4.13E-06	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
2.7.1.180	8.32E-05	1.07E-05	4.68E-05	3.31E-06	7.67E-05	5.56E-06	5.24E-05	9.90E-06	0.037234291
3.1.1.41	0.00E+00	0.00E+00	7.16E-06	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
2.7.11.1	4.20E-05	1.29E-05	1.02E-04	5.18E-06	4.27E-05	8.96E-06	7.11E-05	7.72E-06	0.019343467
2.7.11.32	1.16E-06	7.49E-07	0.00E+00	0.00E+00	2.21E-06	8.42E-07	6.06E-07	4.17E-07	0.028030807
2.7.13.3	3.60E-04	9.18E-05	1.04E-03	8.41E-05	3.20E-04	6.46E-05	4.71E-04	4.42E-05	0.019343467
2.7.3.9	5.41E-05	1.53E-05	1.41E-04	8.57E-06	5.27E-05	1.10E-05	8.64E-05	9.62E-06	0.019343467
2.7.4.27	1.16E-06	7.49E-07	0.00E+00	0.00E+00	2.21E-06	8.42E-07	6.06E-07	4.17E-07	0.028030807
2.7.4.6	3.87E-05	1.05E-05	2.93E-06	5.55E-07	4.42E-05	8.03E-06	1.72E-05	3.27E-06	0.019343467
2.7.6.5	8.29E-06	2.56E-06	2.74E-05	1.86E-06	8.45E-06	2.13E-06	1.39E-05	2.03E-06	0.019343467
2.7.7.49	8.07E-05	8.54E-06	1.40E-04	1.62E-05	7.18E-05	5.86E-06	6.82E-05	1.04E-05	0.027230774
2.7.7.53	9.04E-07	2.86E-07	5.49E-06	1.43E-06	1.32E-06	3.21E-07	2.20E-06	6.27E-07	0.019343467
2.7.7.65	1.57E-07	1.20E-07	3.91E-06	8.57E-07	6.35E-08	6.35E-08	3.66E-07	1.86E-07	0.027230774
2.7.7.85	1.59E-04	1.58E-05	9.56E-05	6.16E-06	1.64E-04	9.23E-06	1.38E-04	1.26E-05	0.019343467
2.7.8.7	4.09E-06	1.36E-06	1.01E-05	1.06E-06	1.24E-05	1.37E-06	9.00E-06	1.83E-06	0.037234291
3.2.1.18	0.00E+00	0.00E+00	3.26E-06	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
2.8.1.4	5.51E-05	1.64E-05	1.18E-04	7.43E-06	4.81E-05	1.22E-05	7.94E-05	1.09E-05	0.037234291
3.2.1.96	0.00E+00	0.00E+00	1.52E-06	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031375386
2.8.3.8	9.11E-07	5.16E-07	3.04E-05	6.69E-06	7.65E-07	4.68E-07	1.05E-06	3.67E-07	0.019343467
3.1.1.2	2.08E-07	1.37E-07	3.73E-06	7.37E-07	4.03E-07	2.53E-07	0.00E+00	0.00E+00	0.019343467
3.4.13.20	0.00E+00	0.00E+00	1.65E-06	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031375386
3.1.1.29	1.54E-04	1.52E-05	8.27E-05	6.88E-06	1.57E-04	9.58E-06	1.15E-04	1.09E-05	0.019343467
3.1.1.61	6.49E-05	2.00E-05	1.42E-04	1.32E-05	5.93E-05	2.01E-05	9.98E-05	1.39E-05	0.027230774
3.1.1.81	0.00E+00	0.00E+00	6.22E-06	1.53E-06	1.83E-07	1.83E-07	2.44E-07	7.80E-08	0.019343467
3.1.1.96	1.20E-04	9.83E-06	9.17E-05	5.63E-06	1.27E-04	1.18E-05	1.01E-04	5.78E-06	0.037234291
3.1.1.12	1.35E-05	4.25E-06	5.46E-05	5.67E-06	1.30E-05	2.64E-06	2.37E-05	2.93E-06	0.019343467
3.1.1.15	2.03E-04	1.99E-05	1.26E-04	9.42E-06	1.94E-04	1.76E-05	1.56E-04	1.71E-05	0.027230774
3.1.1.21	9.95E-06	3.29E-06	6.74E-06	6.02E-05	7.56E-07	1.67E-05	1.47E-06	0.037234291	
3.1.21.4	3.96E-05	4.80E-06	3.34E-06	8.07E-07	4.03E-05	1.52E-06	3.67E-05	4.16E-06	0.019343467
3.1.26.5	1.20E-04	1.24E-05	8.04E-06	7.12E-06	1.13E-04	5.92E-06	1.12E-04	5.63E-06	0.037234291
3.1.3.16	1.97E-06	2.47E-07	2.12E-05	4.47E-06	2.95E-06	8.30E-07	2.76E-06	5.94E-07	0.019343467
3.1.3.16	3.00E-05	1.00E-06	4.14E-06	9.03E-06	2.59E-05	1.00E-06	0.00E+00	0.00E+00	0.031375386
3.1.3.17	9.39E-06	3.81E-06	3.40E-06	3.81E-07	7.45E-06	2.88E-06	7.55E-06	2.41E-06	0.019343467
3.1.3.73	1.14E-05	5.02E-07	1.24E-05	4.05E-06	1.73E-05	7.71E-07	3.66E-07	1.61E-07	0.037234291
3.1.4.52	3.52E-07	3.52E-07	1.19E-05	3.80E-06	6.70E-07	3.75E-07	1.03E-06	2.46E-07	0.027214809
3.1.5.1	1.37E-06	8.10E-07	1.49E-05	2.90E-06	2.17E-06	6.11E-07	1.52E-06	3.76E-07	0.019343467
3.1.7.2	1.54E-06	5.89E-07	9.91E-06	9.91E-07	1.20E-06	5.15E-07	1.20E-06	4.54E-07	0.019343467
3.1.8.1	0.00E+00	0.00E+00	4.09E-06	1.11E-06	0.00E+00	0.00E+00	4.19E-06	4.19E-08	0.019343467
3.2.1.12	2.97E-06	4.72E-06	4.57E-06	4.56E-06	5.83E-06	1.07E-06	1.20E-06	0.00E+00	0.031375386
3.2.1.32	0.00E+00	0.00E+00	1.19E-06	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
3.2.1.169	0.00E+00	0.00E+00	3.28E-06	8.88E-07	0.00E+00	0.00E+00	9.84E-08	9.84E-08	0.019343467
3.2.1.17	1.20E-04	3.09E-05	9.61E-06	2.54E-06	1.16E-04	1.82E-05	4.97E-05	1.51E-05	0.019343467
3.2.1.170	6.23E-07	3.99E-07	3.69E-06	6.17E-07	5.60E-07	3.25E-07	1.79E-06	4.22E-07	0.027230774
3.2.1.177	5.62E-06	2.49E-06	2.16E-05	3.77E-06	8.38E-06	7.71E-07	9.23E-06	2.07E-06	0.037234291
3.2.1.185	1.69E-06	5.79E-06	5.79E-06	7.51E-07	1.76E-06	7.18E-07	1.91E-06	4.02E-07	0.019343467
3.2.1.20	2.75E-06	1.61E-06	6.06E-06	6.02E-06	2.81E-06	1.22E-06	5.42E-06	0.00E+00	0.031375386
3.2.1.39	0.00E+00	0.00E+00	1.99E-06	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019343467
3.2.1.41	2.03E-06	8.41E-07	7.38E-06	1.15E-06	2.37E-06	1.31E-06	4.46E-06	1.30E-06	0.019343467
3.2.1.55	3.90E-06	1.37E-06	1.77E-06	3.77E-06	3.59E-06	1.61E-06	8.55E-06	1.37E-06	0.019343467
3.2.1.89	1.04E-04	1.01E-05	5.89E-05	7.95E-06	1.13E-04	8.23E-06	6.82E-05	1.06E-05	0.037234291
3.2.1.90	4.07E-06	0.00E+00	0.00E+00	9.47E-06	2.06E-06	8.51E-06	2.63E-06	0.00E+00	0.028030807
3.2.2.2	7.31E-07	2.03E-07	0.00E+00	4.59E-06	2.03E-07	1.07E-07	1.07E-06	2.03E-07	0.019343467
3.2.2.4	5.48E-05	1.41E-05	1.63E-06	1.48E-06	5.73E-05	9.68E-06	1.45E-05	2.12E-06	0.019343467
3.2.2.10	1.21E-06	1.75E-06	2.81E-06	2.37E-06	1.22E-06	1.09E-06	1.53E-06	1.09E-06	0.031375386
3.2.2.15	3.41E-06	5.72E-07	1.31E-05	2.61E-06	3.00E-06	9.51E-07	2.76E-06	3.66E-07	0.019343467
3.2.2.16	6.54E-07	3.31E-07	8.38E-06	9.42E-07	6.20E-07	1.94E-07	5.13E-07	2.10E-07	0.019343467
3.2.2.19	1.11E-06	7.08E-07	2.79E-06	9.60E-07	2.30E-07	8.46E-08	8.46E-08	0.027230774	
3.2.2.46	2.24E-06	1.16E-06	0.00E+00	2.39E-06	2.39E-06	8.16E-07	1.14E-06	0.00E+00	0.019343467
3.2.2.47	3.35E-06	8.40E-06	1.95E-06	4.43E-07	2.38E-07	1.35E-07	1.13E-07	0.00E+00	0.019343467
3.2.2.51	0.00E+00	0.00E+00	6.61E-07	2.13E-07	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.019343467
4.1.9.92	0.00E+00	0.00E+00	1.01E-05	3.57E-06	0.00E+00	0.00E+00	4.00E-07	0.00E+00	0.019343467
3.5.1.28	6.38E-06	2.56E-06	4.33E-05	7.56E-06	6.01E-06	1.37E-06	9.45E-06	1.55E-06	0.019343467
3.5.1.44	1.05E-05	3.09E-05	2.46E-04	1.81E-05	2.46E-05	2.80E-05	1.61E-05	2.21E-05	0.027230774
3.5.1.77	4.60E-06	3.56E-06	4.11E-06	1.04E-06	4.30E-07	7.62E-08	1.59E-06	8.07E-07	0.027230774
3.5.1.87	0.00E+00	0.00E+00	2.27E-06	5.13E-07	0.00E+00	0.00E+00	1.12E-07	1.12E-07	0.019343467
3.5.1.91	0.00E+00	0.00E+00	1.39E-06	4.05E-06	0.00E+00	0.00E+00	1.10E-07	0.00E+00	0.019343467
3.5.2.2	7.01E-07	3.53E-07	8.40E-06	1.95E-06	4.43E-07	2.83E-07	1.13E-07	1.13E-07	0.027230774
5.1.3.02	0.00E+00	0.00E+00	8.98E-07	3.54E-07	0.00E+00	0.00E+00	4.00E-07	0.00E+00	0.01375386
5.3.4.32	4.45E-07	2.12E-07	3.35E-06	9.61E-06	0.00E+00	0.00E+00	5.06E-07	1.61E-07	0.019343467
6.3.6.13	1.30E-06	6.21E-07	7.39E-06	1.24E-06	2.40E-06	6.26E-07	4.90E-06	3.22E-07	0.027230774
6.3.6.19	6.90E-08	3.14E-06	1.31E-06	2.68E-07	1.32E-07	5.76E-07	1.45E-07	0.027214809	
6.3.6.22	5.71E-07	4.08E-07	4.08E-06	6.00E-07	6.79E-07	4.21E-07	1.76E-06	6.86E-07	0.019343467
6.3.6.25	1.83E-06	5.38E-06	3.46E-06	1.45E-06	1.83E-06	4.20E-06	2.93E-06	2.93E-06	0.027230774
6.3.6.41	1.85E-06	5.92E-07	1.16E-05	1.59E-06	1.66E-06	5.93E-07	3.81E-0		

4.1.1.70	5.52E-05	1.76E-05	1.43E-04	5.62E-06	5.13E-05	9.62E-06	8.92E-05	1.15E-05	0.019343467
4.1.1.83	2.32E-06	1.05E-06	1.24E-05	3.02E-06	1.17E-06	4.36E-07	3.57E-06	4.62E-07	0.037234291
4.1.2.13	4.42E-05	3.22E-06	8.91E-05	6.41E-06	4.69E-05	2.89E-06	5.47E-05	3.36E-06	0.019343467
4.1.2.48	0.00E+00	0.00E+00	4.27E-06	1.25E-06	0.00E+00	0.00E+00	4.87E-07	3.77E-07	0.019343467
4.1.3.3	1.11E-06	2.96E-07	7.90E-05	1.35E-06	9.14E-07	3.32E-07	9.20E-07	3.08E-07	0.019343467
4.2.1.136	9.72E-05	1.69E-05	2.90E-05	2.64E-06	9.76E-05	1.21E-05	5.75E-05	8.24E-06	0.019343467
4.2.1.24	1.45E-05	5.60E-06	5.32E-05	4.76E-06	1.34E-05	1.74E-06	2.78E-05	2.94E-06	0.019343467
4.2.1.32	3.28E-05	1.22E-06	2.01E-05	1.05E-06	3.20E-05	5.82E-07	1.51E-06	1.51E-06	0.019343467
4.2.1.33	2.46E-04	1.76E-05	3.24E-04	1.28E-05	2.61E-04	8.48E-06	2.61E-04	1.27E-05	0.019343467
4.2.1.53	4.11E-06	1.16E-05	2.37E-05	3.29E-06	4.34E-06	9.06E-07	8.08E-06	1.41E-06	0.019343467
4.2.3.3	8.61E-05	3.53E-06	1.45E-04	1.15E-05	7.79E-05	6.53E-06	8.66E-05	4.43E-06	0.019343467
4.3.1.15	3.95E-06	1.71E-06	1.86E-05	3.28E-06	2.38E-06	1.04E-06	5.38E-06	8.68E-07	0.019343467
4.3.1.17	1.09E-05	3.96E-06	5.05E-05	9.51E-06	1.00E-05	1.70E-06	1.50E-05	2.88E-06	0.027230774
4.3.1.18	6.38E-07	3.11E-07	1.72E-05	5.18E-06	5.14E-07	2.73E-07	1.18E-06	1.78E-06	0.019343467
4.3.3.13	8.93E-05	1.28E-05	3.02E-07	1.11E-06	8.51E-05	8.17E-06	9.58E-05	9.48E-06	0.019343467
4.4.1.8	4.15E-06	1.99E-06	3.22E-05	5.29E-06	2.53E-06	1.17E-06	5.26E-06	4.30E-07	0.019343467
4.59.1.12	1.14E-05	4.25E-06	2.95E-05	3.70E-06	1.35E-05	2.20E-06	1.65E-05	1.23E-06	0.037234291
5.1.1.13	1.17E-06	6.10E-07	7.24E-06	1.81E-06	1.67E-06	8.10E-07	5.13E-07	2.14E-07	0.037234291
5.1.3.8	1.33E-06	3.14E-07	4.11E-06	1.07E-06	4.95E-06	7.96E-07	4.68E-06	1.33E-06	0.037234291
5.1.39.9.6.42E-05	1.72E-05	2.63E-05	2.68E-06	8.81E-05	1.20E-05	4.99E-05	6.95E-06	0.019343467	5.21.8 6.24E-04 8.13E-05 3.16E-04 2.22E-05 6.05E-04 5.04E-05 4.36E-04
4.93E-05	0.027230774								
5.3.1.3	1.85E-06	7.55E-07	2.01E-05	4.89E-06	1.19E-06	6.51E-07	2.78E-06	7.21E-07	0.027230774
5.4.3.8	1.78E-05	5.61E-06	5.42E-05	6.21E-06	1.92E-05	3.61E-06	3.89E-05	2.82E-06	0.019343467
5.4.99.23	4.75E-07	2.24E-07	1.86E-06	5.82E-07	1.01E-06	2.73E-07	9.93E-07	1.54E-07	0.037234291
5.4.99.25	1.01E-04	1.10E-07	5.27E-05	5.94E-06	1.04E-04	8.57E-06	7.63E-05	1.03E-05	0.037234291
6.1.1.12	1.78E-04	1.99E-05	9.40E-05	1.68E-05	1.76E-04	1.45E-05	1.39E-04	1.21E-05	0.037234291
6.1.1.21	1.03E-04	5.88E-05	7.31E-05	6.24E-06	1.05E-04	7.05E-06	9.31E-05	7.60E-06	0.027230774
6.1.1.3	2.19E-04	1.25E-05	1.62E-04	8.45E-06	2.18E-04	8.64E-06	2.02E-04	8.76E-06	0.019343467
6.1.1.5	1.16E-05	9.51E-06	1.24E-05	1.04E-06	1.21E-05	5.42E-06	4.34E-06	1.01E-06	0.019343467
6.3.1.1	0.00E+00	0.00E+00	1.04E-05	3.24E-07	0.00E+00	0.00E+00	3.54E-07	2.17E-07	0.019343467
6.2.1.22	1.74E-06	7.85E-07	9.64E-06	2.37E-06	1.67E-06	3.35E-07	3.81E-06	7.57E-07	0.037234291
6.2.1.3	2.46E-06	9.42E-07	8.31E-06	5.14E-07	2.24E-06	4.25E-07	4.19E-06	1.36E-06	0.019343467
6.3.4.19	6.38E-05	9.25E-06	3.58E-05	4.86E-06	5.51E-05	1.90E-06	4.62E-05	6.35E-06	0.037234291
6.3.4.20	6.87E-05	1.33E-05	8.39E-06	1.28E-06	8.35E-05	1.53E-05	4.92E-05	7.54E-06	0.019343467
6.3.5.7	3.74E-05	1.08E-05	9.50E-05	8.05E-06	4.36E-05	8.80E-06	6.78E-05	4.14E-06	0.019343467
7.2.1.1	4.68E-04	1.12E-04	0.00E+00	0.00E+00	4.45E-04	7.48E-05	2.11E-04	6.43E-05	0.019343467