

Strain	Source	Identifier
<i>Bacteroides thetaiotaomicron</i> VPI-5482	ATCC	ATCC 29148
<i>Bacteroides fragilis</i> NTC9343	ATCC	ATCC 25285
<i>Bacteroides ovatus</i>	ATCC	ATCC 8483
<i>Clostridium scindens</i>	ATCC	ATCC 35704
<i>Ruminococcus gnavus</i>	ATCC	ATCC 29149
<i>E. coli</i> S17-1	Justin Sonnenburg	
<i>E. coli</i> S17-1 pNBU2::Rg-DCA-3epimerase-WT	This Study	
<i>E. coli</i> S17-1 pNBU2::Rg-DCA-3epimerase-CD	This Study	
<i>B.theta</i> attB::Rg-DCA-3epimerase-WT	This Study	
<i>B.theta</i> attB::Rg-DCA-3epimerase-CD	This Study	
<i>B.fragilis</i> attB::Rg-DCA-3epimerase-WT	This Study	
<i>B.fragilis</i> attB::Rg-DCA-3epimerase-CD	This Study	
<i>B. ovatus</i> attB::Rg-DCA-3epimerase-WT	This Study	
<i>B. ovatus</i> attB::Rg-DCA-3epimerase-CD	This Study	
Plasmid	Source	Description
pWW3806: Amp ^{Ri} -ermG-RP4/R6K- P_BfP1E6	Justin Sonnenburg	Upstream half of vector
pWW3810: Term-NBU2-Amp ^{Rii}	Justin Sonnenburg	Downstream half of vector
pDK42: pNBU2-Rg-DCA-3epimerase-WT	This study	Functional copies of <i>Rg02133</i> , <i>Rg00694</i>
pDK43: pNBU2-Rg-DCA-3epimerase-CD	This study	Functional <i>Rg02133</i> , <i>Rg00694</i> Y165F

Table S1 – Bacterial strains and plasmids used in this study.