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Supplemental Information

Simplified Intestinal Microbiota to Study

Microbe-Diet-Host Interactions in a Mouse Model

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Table S1. Nutritional information of the three mouse diets. Related to STAR methods.

Ingredients (% by weight)	Chow* (Lab Diet 5021)	HF/HS** (Harlan TD.96132)	ZF/HS** (Harlan TD.03314)
Protein	21.0	20.9	20.0
Fat	9.4	20.2	0
Saturated fatty acids	2.7	8.3	-
Trans fatty acids	-	3.4	-
Monounsaturated fatty acids	2.6	7.1	-
Polyunsaturated fatty acids	4.1	1.4	-
Carbohydrates***	33.2	46.3	62.8
Starch	32.1	16.0	-
Sucrose	0.7	18.3	62.8
Maltodextrin	-	12.0	-
Glucose	0.2	-	-
Fructose	0.2	-	-
Neutral detergent fiber	14.8	4.0	11.0
Hemicellulose	10.2	-	-
Cellulose	4.6 ****	4.0	11.0

*Natural ingredient diet; **Purified diet; ***Available carbohydrates; ****Cellulose and lignin.

Table S5. Oligonucleotides, related to KEY RESOURCES TABLE

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Oligonucleotides		
AM1	Sigma-Aldrich	CAGCACGTGAAGGTGGGGAC
AM2	Sigma-Aldrich	CCTTGCGGTTGGCTTCAGAT
Bt1F	Sigma-Aldrich	ATAGCCTTTCGAAAGRAAGAT
Bt1R	Sigma-Aldrich	CCAGTATCAACTGCAATTTTA
Bif164F	Sigma-Aldrich	GGGTGGTAATGCCGGATG
BiADO-2	Sigma-Aldrich	CGAAGGGCTTGCTCCCAGT
AERO-F	Sigma-Aldrich	CTTTCAGCAGGGAAGAGTCAA
AERO-R	Sigma-Aldrich	AGCCATGCACCACCTGTATGG
DSV691-F	Sigma-Aldrich	CCGTAGATATCTGGAGGAACATCAG
DSV826-R	Sigma-Aldrich	ACATCTAGCATCCATCGTTTACAGC
EhalF	Sigma-Aldrich	GCGTAGGTGGCAGTGCAA
EhalR	Sigma-Aldrich	GCACCGRAGCCTATACGG
RrecF	Sigma-Aldrich	GCGGTRCGGCAAGTCTGA
Rrec630mR	Sigma-Aldrich	CCTCCGACACTCTAGTMCGAC
g-Prevo-F	Sigma-Aldrich	CACRGTAACGATGGATGCC
g-Prevo-R	Sigma-Aldrich	GGTCGGGTTGCAGACC
RrecRi630F	Sigma-Aldrich	GTCATCTAGAGTGTCCGGAGG
Erec870R	Sigma-Aldrich	AGTTTTYATTCTTGCGAACG
Rflbr730F	Sigma-Aldrich	GGCGGCYTRCTGGGCTTT
Clep866mR	Sigma-Aldrich	CCAGGTGGATWACTTATTGTGTTAA
UniF	Sigma-Aldrich	GTGSTGCAYGGYYGTCGTCA
UniR	Sigma-Aldrich	ACGTCRTCCMCNCCTTCCTC
27F	Sigma-Aldrich	GTTTGATCCTGGCTCAG
1492 R	Sigma-Aldrich	CGGCTACCTTGTTACGAC