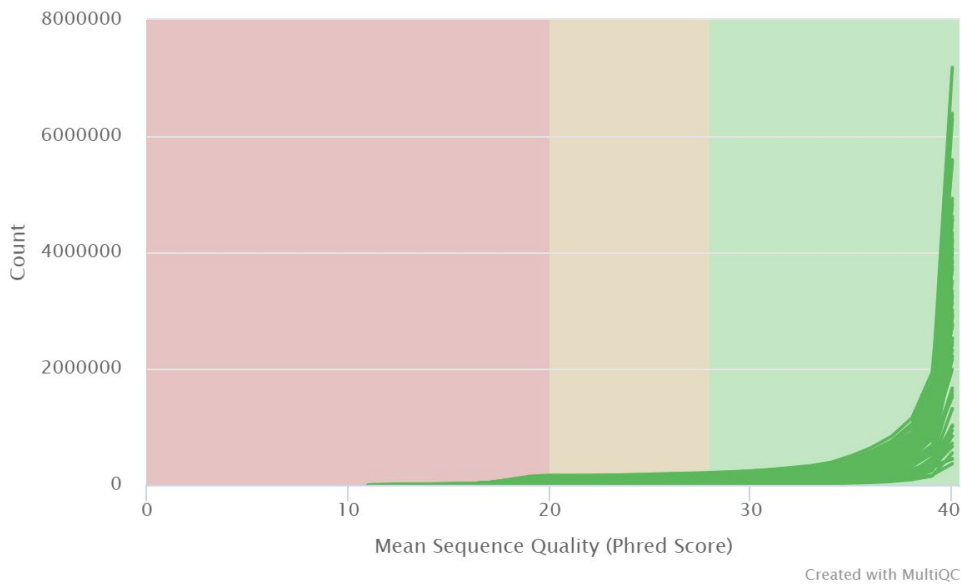


1 **SUPPLEMENTARY FIGURES**

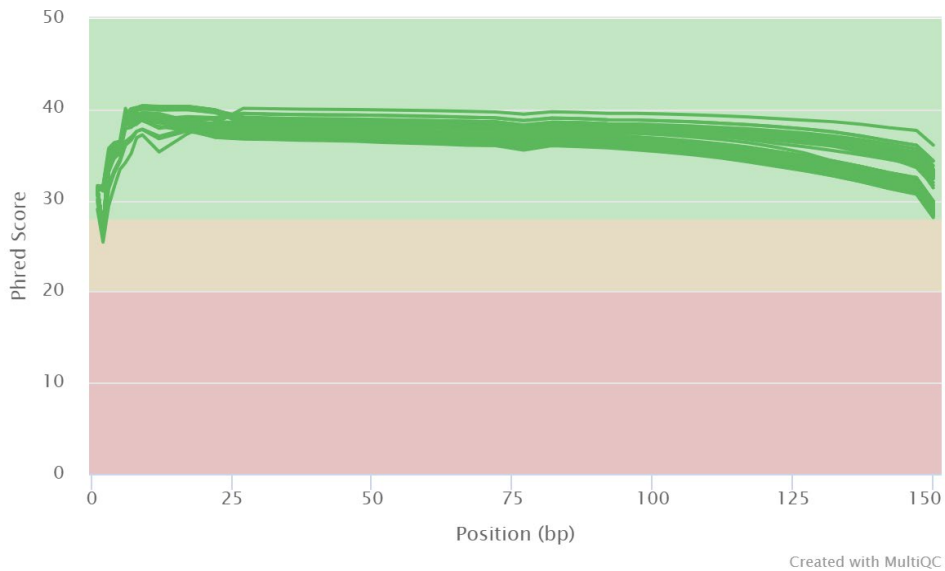
**A**

Per Sequence Quality Scores



**B**

Mean Quality Scores



2  
3  
4  
5  
6

**Supl Figure 1. Quality score from sequencing run.** (A) The per sequence quality score indicate the mean quality score per sequence. (B) The quality scores per position in the sequences.

Suppl Table 1. Questionnaire information about diet

Mother/ Child pair	BM 3m	BM 6m	BM 9m	BM 12 m	EB F 3m	EB F 6m	Soli ds 0- 3m	Soli ds 3m	Soli ds 4m	Soli ds 5- 6m	Dai ry 6m	Dai ry 9m	Dai ry 12 m
1	1	1	0	0	0	0	0	0	1	0	0	0	1
11	1	1	0	0	0	0	0	0	1	0	1	1	1
16	1	1	1	1	1	0	0	0	0	1	0	1	1
21	1	1	1	1	1	0	0	0	1	0	0	1	1
26	1	1	1	0	1	0	0	0	1	0	1	1	1
31	1	1	0	NaN	1	0	0	0	1	0	1	1	NaN
36	1	1	1	NaN	NaN	0	NaN	0	0	1	1	0	NaN
172	1	1	1	1	1	0	0	1	0	0	1	1	1
177	1	1	1	0	1	0	0	1	0	0	1	1	1
197	1	0	0	0	0	0	0	0	0	0	0	1	1
207	1	1	1	1	1	0	0	0	0	1	1	1	1
217	1	1	1	1	1	0	0	0	0	1	0	0	1
232	1	1	1	1	1	0	0	0	1	0	1	1	1
237	1	1	1	0	0	0	0	0	1	0	0	1	1
41	1	0	0	0	0	0	1	0	0	0	0	1	1
46	1	1	1	0	1	0	0	0	0	1	1	0	0
212	1	1	1	NaN	1	0	0	0	1	0	0	1	NaN
222	1	1	1	0	1	0	0	1	0	0	1	1	1
227	1	0	0	0	0	0	0	0	0	0	0	1	1
242	1	1	1	1	1	0	0	0	1	0	1	0	0
252	1	1	1	1	1	1	0	0	0	0	0	0	1
257	1	NaN	NaN	NaN	1	NaN	0	NaN	NaN	NaN	NaN	0	NaN
267	1	1	1	1	1	0	0	0	1	0	1	1	1
292	1	1	1	0	0	0	0	0	1	0	0	1	1
6	1	NaN	NaN	1	0	NaN	0	NaN	NaN	NaN	NaN	NaN	0
182	1	1	1	NaN	1	1	0	0	0	0	0	1	NaN
187	1	1	1	0	0	0	0	0	1	0	1	1	0
272	1	1	1	1	1	NaN	0	NaN	NaN	NaN	NaN	0	0
282	1	1	1	0	1	0	0	0	0	1	0	0	1
287	1	1	1	1	NaN	0	NaN	0	1	0	0	1	1
302	1	1	1	0	0	0	0	0	1	0	0	1	1
307	1	1	0	0	0	0	0	0	1	0	1	1	1
247	1	1	1	1	1	0	0	0	1	0	0	1	0
277	1	1	1	1	NaN	0	NaN	0	1	0	1	1	1
321	1	1	1	0	1	0	0	0	1	0	0	1	1
329	1	0	0	0	1	0	0	0	0	0	0	0	1
338	1	1	1	0	1	0	0	0	0	1	0	1	1

202	1	1	1	1	1	0	0	0	1	0	0	0	1
262	1	1	1	0	0	0	0	0	0	1	0	1	1
297	1	1	1	1	0	0	0	0	1	0	1	1	1
312	1	1	1	1	1	0	0	0	0	1	0	0	1
317	1	1	0	0	1	0	0	0	1	0	0	1	1
333	1	1	1	1	1	0	0	1	0	0	0	1	1
51	1	1	0	0	1	0	0	0	1	0	1	1	1
325	1	1	1	NaN	0	0	0	1	0	0	1	1	NaN
346	1	1	1	0	1	0	0	0	1	0	1	1	1
358	0	0	0	0	0	0	1	0	0	0	0	0	0
342	1	1	1	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1	1
354	1	1	1	0	1	0	0	0	1	0	1	1	1
362	1	1	0	0	0	0	0	0	1	0	1	1	0
367	1	1	1	1	1	0	0	0	1	0	0	1	1
56	1	1	1	1	1	0	0	0	1	0	0	1	1
61	1	1	1	0	1	0	0	0	0	1	0	0	0
66	1	1	1	1	1	0	0	0	1	0	1	1	1
192	1	1	1	1	NaN	0	NaN	NaN	NaN	NaN	NaN	1	1
350	1	1	1	1	1	0	1	0	0	1	1	1	1
371	1	1	1	1	1	0	0	0	1	0	1	1	1
380	1	1	1	1	1	0	0	0	1	0	0	1	1
71	1	1	1	0	1	0	0	0	0	1	1	1	0
376	1	1	1	0	1	0	0	1	0	0	1	1	1
385	1	1	0	0	0	0	0	0	1	0	0	1	1
395	1	NaN	NaN	NaN	1	NaN	0	NaN	NaN	NaN	NaN	NaN	NaN
405	1	1	1	1	1	0	0	0	0	1	0	0	1
410	1	1	0	0	1	0	0	0	1	0	0	0	1
390	1	NaN	0	0	1	NaN	0	NaN	NaN	NaN	NaN	1	NaN
415	1	1	1	1	1	0	0	0	1	0	1	1	1
420	1	1	0	0	0	0	0	0	0	1	0	1	1
425	1	1	1	1	1	0	0	0	0	1	0	1	0
435	1	1	1	1	1	0	0	0	1	0	1	1	1
445	1	1	1	0	1	0	0	0	0	1	0	1	1
430	1	1	0	0	1	0	0	0	1	0	0	0	0
440	1	1	1	1	1	0	0	0	1	0	1	1	1
450	1	0	0	0	0	0	0	0	0	0	0	1	1
76	1	1	1	1	1	0	0	0	0	1	1	0	1
81	1	1	1	0	1	0	0	0	0	1	1	1	1
400	1	NaN	NaN	NaN	1	NaN	0	NaN	NaN	NaN	NaN	NaN	NaN
455	1	NaN	0	0	0	NaN	0	NaN	NaN	NaN	NaN	1	1
460	1	1	1	0	1	0	0	0	1	0	0	1	1
465	1	1	1	1	1	0	0	0	0	1	0	1	1
470	1	1	1	0	1	0	0	0	0	1	1	1	1

475	1	1	1	1	1	0	0	0	0	1	0	1	1
480	1	1	1	1	0	0	0	0	1	0	1	1	1
92	1	1	1	1	1	0	0	0	1	0	1	1	1
87	1	1	1	1	0	0	0	0	1	0	0	0	1
97	1	1	1	0	NaN	0	NaN	0	1	0	0	1	1
102	1	0	0	0	0	0	0	0	0	0	0	1	1
107	1	1	1	1	1	0	1	0	1	0	1	1	1
112	1	1	1	1	0	0	0	0	0	1	0	1	1
117	1	1	0	0	1	0	0	1	0	0	1	1	1
122	1	1	1	1	0	0	0	0	1	0	1	NaN	1
127	1	1	1	1	0	0	0	1	0	0	0	0	0
132	1	1	1	1	1	0	0	1	0	0	1	1	0
137	1	1	1	1	0	0	0	0	0	1	1	1	0
142	1	1	1	1	1	0	0	0	1	0	0	1	1
147	1	1	1	1	1	0	0	0	0	1	0	1	1
152	1	1	1	0	0	0	0	0	1	0	1	1	1
157	1	1	0	0	0	0	0	0	1	0	0	1	NaN
167	1	1	0	0	0	0	0	0	0	1	0	1	1
162	1	0	0	0	0	0	0	0	0	0	0	NaN	1
86	1	1	1	1	1	0	0	0	1	0	1	NaN	1

11  
12

**Suppl Table 2. Abbreviation list**

<b>Abbreviation</b>	<b>Full name</b>
tre	Trehalose
sucr	Sucrose
pullulan1200	Pullulan (n = 1200 repeat units, alpha-1,4 and alpha-1,6 bounds)
malt	D-Maltose
lcts	Alpha-Lactose
xyl_D	D-Xylose
pac	Phenylacetic acid
mal_L	L-Malic acid
gln	Gluconic acid
glc_D	D-Glucose
cit	Citric acid
glu_L	L-Glutamic acid
tyr_L	L-Tyrosine
phe_L	L-Phenylalanine
leu_L	L-Leucine
his_L	L-Histidine
asp_L	L-Aspartic acid
arg_L	L-Arginin
orn	Ornithine
asn_L	L-Asparagine
succ	Succinic acid
pro_L	L-Proline
gln_L	L-Glutamine
mnt	D-Mannitol
man	D-Mannose
gal	D-Galactose
fru	D-Fructose
strch1	Starch, Structure 1(1,6{7[1,4-Glc], 4[1,4-Glc]})
rmn	L-Rhamnose
rib_D	D-Ribose
glygn2	Glycogen, Structure 2 (Glycogenin-1,6{7[1,4-Glc], 4[1,4-Glc]})
glyc	Glycerol
raffin	Raffinose
salcn	Salicin
cellb	Cellobiose
ser_L	L-Serin
pyr	Pyruvic acid
melib	TG(18:4(6Z,9Z,12Z,15Z)/18:1(9Z)/20:5(5Z,8Z,11Z,14Z,17Z))
fuc_L	L-Fucose
arab_L	L-Arabinose

arab_D	D-Arabinose
ala_L	L-Alanine
Tn_antigen	Tn Antigen
T_antigen	T-Antigen (Core 1)
sTn_antigen	Sialyl-Tn Antigen
sT_antigen	Sialil-T Antigen
gncore2	GlcNac-Alpha-1,4-Core 2
gncore1	GlcNac-Alpha-1,4-Core 1
dsT_antigen	Disialyl-T Antigen
core8	Core 8
core7	Core 7
core6	Core 6
core5	Core 5
core4	Core 4
core3	Core 3
core2	Core 2
acgam	N-Acetyl-D-glucosamine
trp_L	L-Tryptophan
val_L	L-Valine
thr_L	L-Threonine
inulin	Inulin
cys_L	L-Cysteine
kestotr	Kestotetraose (3 fru, 1 glc inulin-type fructo-oligosaccharide)
kestopt	Kestopentaose (4 fru, 1 glc inulin-type fructo-oligosaccharide)
kesto	Kestose (2 fru, 1 glc inulin-type fructo-oligosaccharide)
galur	D-Galacturonate
acnam	N-Acetylneuraminic acid
ppa	Propionic acid
fum	Fumaric acid
lys_L	L-Lysine
akg	Oxoglutaric acid
pect	Pectin
rhamnogalurI	Potato rhamnogalacturonan I, MW assumed ~200000, 62 galur, 20 rmn, 12 gal, 3 arab-L, 1 xyl-D
pecticgal	Pectic galactan (potato), gal: arab-L: rmn: galur = 78: 9: 4: 9
homogal	Homogalacturonan, 100 galacturonate residues.
ha	Hyaluronic acid
glcur	D-Glucuronic acid
gam	Glucosamine
cspg_c	Chondroitin Sulfate C (GalNac6S-Glca) Proteoglycan
cspg_b	Chondroitin Sulfate B / Dermatan Sulfate (IDoa2S-GalNac4S) Proteoglycan
cspg_a	Chondroitin Sulfate A (GalNac4S-Glca) Proteoglycan

arabinogal	Larch arabinogalactan, gal/ara 6:1, small amount of glcur, MW ~116000
xyluglc	Xyluglucan
lmn30	Laminarin
lichn	Lichenin
levan1000	Levan
hspg	Heparan Sulfate Proteoglycan
glcmannan	Konjac glucomannan
galmannan	Carob galactomannan
dextran40	Dextran 40, 1,6-alpha-D-Glucan
bglc	Beta-Glucans
arabinoxyl	Arabinoxylan
arabinan101	Arabinan
amylose300	Amylose
amylopect900	Amylopectin
xylan	Xylan (Oat spelt)
rhamnogalurII	Wine rhamnogalacturonan II
mannan	Alpha-mannan
starch1200	Starch n = 1200 repeat units (300 repeat units amylose, 900 repeats amylopectin)
but	Butyric acid
cellul	Cellulose
met_L	L-Methionine
chol	Choline
4hpro_LT	4-Hydroxyproline
oxa	Oxalic acid
oaa	Oxaloacetic acid
acgal	N-Acetylgalactosamine