

Supplementary Table 4 represents only positive signals marked in red colour (higher than 1500 RFU; in a range of 0-65535 RFU, RFU - relative fluorescent units) in 9 groups of animals used in this work. Median - is median of 6-8 replicates of particular glycan; Q1 and Q3 - 25% and 75% quartiles as a measure of deviation; measure of "positivity" is a signal that is 5 times greater than the background value, which was not higher than 300 RFU. Measurement of 5-time greater background values is our conventional practice.

Group of animals	sterile conditions were kept											
Mouse ID	1.1			1.2			1.3			1.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
020	6	4	3	1519	122	107	12	9	6	5	3	8
372	53	36	25	18191	6621	2619	27	25	51	17	12	45
497	51	18	38	4202	1175	2999	40	6	57	9	5	21
1220	69	51	7	3228	1070	336	223	148	133	18	13	22

Group of animals	contact to <i>Escherichia coli</i> strain W3110											
Mouse ID	2.1			2.2			2.3			2.4		
	no positive signals were observed											

Group of animals	contact to <i>Bifidobacterium longum</i> strain NCC2705											
Mouse ID	3.1			3.2			3.3			3.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
166	26	10	12	14	7	3	47127	608	1723	19	4	5
362	45	25	79	28	8	26	4302	475	181	321	22	16
363	73	25	23	44	6	12	4634	480	372	28	13	19
392	165	26	35	74	12	5	7040	108	457	841	76	105
437	348	18	24	228	7	8	7644	437	367	604	19	49
1208	4764	308	732	192	2	11	445	85	43	45	6	12
1220	572	68	71	108	10	4	7684	2033	405	3959	818	640
1222	42	10	16	22	9	49	3412	972	357	441	123	95
2101	55	11	4	27	7	2	3250	690	559	157	34	44

Group of animals	contact to <i>Bacteroides thetaiotaomicron</i> strain VPI-5482 (ATCC 29148)											
Mouse ID	4.1			4.2			4.3			4.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
106	30	15	22	2552	537	1582	8	4	3	16	12	11
107	35	6	4	2269	191	543	2	1	2	2	1	0
192	239	32	37	54067	14779	10022	16	7	3	119	113	37
193	827	216	151	6714	3380	3751	14	4	3	414	303	107
194	20	12	32	6295	1340	443	2	1	1	1	0	3
197	20973	2802	2972	43229	12037	18330	26	10	12	1828	554	415
202	2187	582	322	62358	9558	3177	29	5	4	653	364	186
256	9335	8113	6701	182	131	102	12	9	9	1459	1415	1896

268	17450	8789	3574	12	5	9	11	6	4	12	6	11
503	1893	1536	932	4	2	4	6	4	7	207	130	314
1220	1540	210	150	1498	484	373	9	4	3	372	363	366
1610	61536	4776	2972	49251	14108	7835	10575	2662	1307	71	56	85

Group of animals	contact to <i>Lactobacillus reuteri</i> strain SD2112 (ATCC 55730)											
Mouse ID	5.1			5.2			5.3			5.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
020	23	9	4	20	12	40	3343	1086	354	7	2	22
181	491	60	438	2659	763	709	1578	462	421	10965	4092	285
256	24	13	9	55	24	25	29	11	10	3213	550	386
392	197	87	160	986	204	174	548	106	28	3327	284	174
396	104	9	7	87	4	11	70	32	40	3075	486	660
437	376	10	13	748	68	22	450	62	140	2424	474	579
1220	465	145	180	2940	233	103	1922	140	365	8180	602	743
1222	126	20	76	88	9	7	9067	1495	2362	187	61	51
1609	732	470	6779	1855	815	593	86	40	13	110	55	32
1610	1418	89	260	1852	494	202	145	53	33	99	48	29
2101	181	33	48	98	45	28	6139	1131	738	155	34	31

Group of animals	contact to 4 strains of bacteria (<i>E. coli</i> strain W3110, <i>B. longum</i> strain NCC2705, <i>B. thetaiotaomicron</i> strain VPI-5482, <i>L. reuteri</i> strain SD2112)											
Mouse ID	6.1			6.2			6.3			6.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
006	2480	1420	869	57966	22562	3474	18970	7518	2073	71	26	111
020	5309	942	1388	92	71	48	160	75	92	1513	143	604
025	584	101	233	22245	11796	24971	5406	1231	1687	17	4	3
131	2220	107	1060	1057	43	148	483	58	93	3829	555	1127
166	48	9	36	860	476	177	2579	131	199	47	10	19
263	7006	2901	1026	65535	16382	0	64719	3640	768	27	11	13
368	31	16	10	1980	289	1376	1196	721	670	85	35	13
369	43	13	10	2903	274	142	1617	672	921	58	12	17
392	618	156	133	2015	200	355	2073	255	435	2536	36	138
1220	1056	566	601	5399	728	951	6354	1801	388	4955	1388	399
1222	900	303	148	92	12	13	1398	520	95	2435	708	284
1606	3020	1790	2366	56	19	45	8	2	6	44	8	25
2105	2284	861	147	925	60	32	514	202	78	160	63	40

Group of animals	transfer to normal diet (standard granulated food)											
Mouse ID	7.1			7.2			7.3			7.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
181	643	176	167	590	88	48	364	131	75	2702	920	251
193	52	3	11	34	2	12	249	165	192	3869	1915	93
197	615	108	37	30	6	13	1957	1069	668	6190	2013	971
1208	103	10	6	5342	796	229	2	1	3	51	20	24
1220	255	25	14	541	63	99	1492	435	100	1795	510	380

1416	52	12	47	785	125	203	16	3	5	14787	2421	437
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Group of animals	gavage orally of a sample of non-sterile mice feces											
Mouse ID	8.1			8.2			8.3			8.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
011	164	98	21	2151	148	611	70	16	22	71	32	24
013	334	96	76	3716	472	237	448	217	44	193	55	31
019	125	40	15	467	61	38	54	16	9	6728	258	691
020	311	188	1153	14971	3225	1827	898	473	1262	305	291	165
026	62	24	23	155	97	9	7185	1389	2493	11	1	2
074	5385	540	422	115	21	95	73	19	23	26	11	13
075	55	14	31	698	57	107	43	10	31	3794	252	265
080	4393	423	475	169	20	82	49	12	8	398	61	169
115	34	12	14	2277	2021	241	241	98	32	118	42	31
117	105	14	30	6130	1049	1012	5797	443	375	3652	402	1052
123	59	11	11	85	36	14	27	4	4	2804	179	70
139	21	17	20	3405	3361	7712	871	675	430	4	1	7
153	135	33	20	2654	42	417	56	14	18	88	20	36
162	164	70	70	21553	3738	5660	45	17	50	108	55	25
166	52	11	23	120	29	13	30957	2878	5264	370	106	148
178	93	22	34	1950	187	455	68	26	75	127	68	33
179	106	17	32	2005	673	657	61	17	26	102	7	50
180	14	8	26	1610	1584	1859	23	7	4	7	3	3
195	17	14	19	1632	1248	947	13	3	5	5	1	4
256	263	136	64	8710	412	226	241	30	34	355	52	144
263	1274	675	237	203	101	42	108	28	9	4179	2042	412
362	10913	3757	676	18898	1483	1615	1067	60	97	597	37	74
364	1619	59	182	1506	30	69	1376	117	30	1353	47	76
392	11521	1278	3651	11578	426	2815	1220	136	80	932	93	206
396	486	26	16	5840	480	1894	334	9	45	1085	28	118
437	9523	438	1327	8155	224	1434	1516	65	107	717	91	37
503	195	27	42	3400	979	398	1745	521	113	1842	470	301
1002	141	14	11	169	88	72	120	12	38	1597	226	268
1004	4320	1141	803	6545	781	1488	888	113	106	1234	262	160
1008	7746	505	271	26749	1345	1112	360	27	27	2549	67	611
1009	1708	473	100	1031	283	268	68	4	6	267	32	19
1010	488	41	15	2168	239	197	3500	189	447	599	16	89
1013	163	8	27	303	62	33	92	25	15	7621	2005	223
1208	35927	437	1202	43580	1692	1125	13738	684	445	44000	3514	3415
1216	69	17	21	117	24	41	61	13	16	32204	2075	983
1217	1662	381	214	1005	175	118	988	122	14	728	35	174
1220	29080	2987	1849	35445	3838	2082	5218	951	568	5614	1325	1146
1222	1034	261	239	9367	1303	3298	10571	2964	2139	1715	513	191
1232	1688	310	210	175	37	36	11486	5009	1738	50	29	34
1233	226	74	19	6013	1009	223	6160	128	327	500	60	95
1407	35	7	8	2313	340	58	44	7	24	19	6	8
1416	228	21	20	10464	1609	1088	84	16	18	392	21	26
1418	107	20	30	174	14	3	1831	117	77	8907	237	161

1603	607	132	38	3931	332	170	127	29	18	76	29	19
1606	1299	979	385	1508	602	87	155	62	20	669	146	62
1610	1263	226	232	18771	2269	5012	508	144	76	494	209	40
1613	720	9	47	1350	143	73	400	11	24	3059	357	224
1614	727	13	18	225	40	119	187	21	52	1666	239	163
2006	316	48	22	13669	979	900	143	54	10	81	24	13
2007	99	11	12	9624	539	979	408	127	36	68	54	17
2101	2355	1998	831	9527	752	253	6119	1393	620	892	110	176
2105	1056	113	249	1610	127	108	266	66	15	269	90	35
2209	7485	3090	197	474	378	105	109	3	10	2219	83	362
2210	8763	1722	1183	874	100	288	79	3	1	1123	298	362

Group of animals	conventional controls, CD1 male mice fed with standard granulated food											
Mouse ID	9.1			9.2			9.3			9.4		
Nr	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q	Median	-1st Q	+3rd Q
001	238	55	76	5294	3953	931	400	223	250	1946	1117	250
017	400	119	38	186	65	69	286	44	30	2052	1367	120
019	252	138	134	422	168	276	946	512	228	1737	1025	571
020	1709	805	268	469	183	176	1231	419	294	1450	604	988
024	206	88	161	242	49	20	246	74	221	3322	1748	2636
038	322	24	25	698	530	535	370	109	855	2070	1412	2152
055	6034	2106	2880	5556	154	112	2641	335	703	4670	1114	4179
073	492	87	68	1975	105	115	158	1	7	540	219	62
094	166	57	36	496	374	1526	765	183	111	2888	1686	844
096	100	17	80	226	88	164	1618	1228	2094	3837	2276	1037
113	2202	396	358	80	13	10	628	322	696	520	364	913
115	281	123	112	2516	809	660	183	37	48	894	362	160
117	634	120	95	3704	723	812	166	58	59	1828	648	178
125	1680	362	348	15998	3283	2691	10880	4540	1948	7666	4597	1498
128	1144	61	106	2034	380	324	2027	131	927	1253	532	525
129	142	27	262	380	249	287	1316	518	270	2034	1412	2164
130	169	51	18	1950	343	318	322	40	108	599	110	207
131	570	93	126	3874	716	1152	1534	472	305	3060	846	518
154	923	11	211	510	148	308	1820	647	666	2250	177	386
168	4798	1830	776	255	37	44	170	10	6	194	28	42
169	641	158	100	931	99	21	1778	224	1021	1648	284	350
176	1278	194	700	418	48	90	3139	2381	1031	380	16	52
177	750	62	240	540	90	156	6980	695	843	4450	1321	1268
181	539	154	186	928	87	88	936	216	309	3673	1709	398
189	336	51	93	544	41	72	352	105	114	2857	357	824
192	157	20	29	1634	85	544	162	42	130	452	89	258
193	204	56	110	4937	220	304	109	11	37	166	32	21
198	252	78	529	341	50	91	154	44	22	1810	555	313
216	1356	210	138	1223	44	0	2160	1706	2164	363	197	582
217	5467	732	415	33880	1415	1386	5990	2258	626	43266	16936	6898
227	858	86	110	468	42	55	118	19	90	1721	231	247
233	265	170	448	408	141	66	144	28	20	3566	2763	2012
234	2506	1152	483	356	113	67	683	177	210	15906	5631	6181

240	367	88	203	1758	272	89	239	51	132	382	66	41
245	1201	344	184	8411	449	795	1190	703	383	2358	300	274
249	1849	192	391	255	98	121	7630	6280	5831	22325	1619	2350
250	1800	250	210	287	137	65	11943	3947	595	18576	4601	1611
251	2704	382	332	86	7	17	122	28	57	280	164	590
253	284	72	313	3491	199	240	1338	1010	535	1690	281	562
255	2258	168	80	156	51	78	163	47	48	268	40	28
256	328	98	62	616	80	42	130	56	146	6086	593	416
259	176	19	5	426	24	67	673	132	156	3393	1289	922
260	2753	145	176	287	80	17	214	35	130	328	58	17
261	262	102	72	517	43	43	2622	759	204	8050	2618	1022
264	149	79	121	52434	21924	13101	7086	1912	1432	30150	8032	3638
300	122	13	21	2140	100	129	105	21	25	112	12	24
304	116	40	186	2116	404	92	176	9	216	211	62	405
306	146	61	128	1816	626	364	227	59	30	357	159	198
319	774	185	35	609	71	71	2852	954	594	800	214	235
320	1122	284	200	2024	139	128	4614	2120	590	1120	164	183
329	1537	330	348	1442	128	139	1845	1464	972	1118	344	258
362	11714	777	2376	5568	275	147	1332	767	803	65535	7525	0
363	3880	1257	1426	344	72	487	529	46	80	9494	5013	1234
364	1872	72	75	1699	159	35	1384	175	41	1131	191	93
368	116	16	15	8434	344	316	3285	469	664	383	214	236
372	2909	249	666	142	33	67	122	8	35	70	6	92
380	670	308	228	5963	738	1325	1558	361	585	2816	1776	968
381	147	48	24	3953	969	544	2699	1376	665	2664	887	1282
386	8888	228	219	16605	1277	163	7840	2364	1749	10940	3376	1496
387	309	27	274	3992	342	560	1580	1136	939	2238	1617	1122
390	280	48	179	218	80	34	558	309	80	1797	178	131
392	8618	1891	1804	10288	447	254	3424	2463	1403	7320	720	1136
396	608	232	178	816	78	76	136	21	68	1820	191	229
399	110	33	206	1727	414	185	418	231	220	287	144	155
437	5980	418	161	6145	384	339	1592	1187	1050	6085	219	663
480	1899	353	47	2184	178	127	2307	419	392	1194	312	128
497	2973	1229	93	527	75	47	452	49	60	494	33	16
1004	2698	408	39	23668	2844	4856	2954	304	694	12210	1586	1529
1016	142	10	27	2110	169	652	310	94	439	218	163	189
1017	307	164	189	364	164	94	366	175	71	1592	1015	606
1023	184	31	31	3986	562	309	876	386	192	5944	3514	1421
1202	452	98	32	696	63	97	505	180	38	1516	566	808
1206	178	68	125	280	176	196	242	48	163	1880	1208	201
1208	63706	9186	1829	4290	374	300	5002	315	1406	24601	9179	2312
1210	132	39	220	268	142	348	320	72	161	1774	1168	520
1212	244	18	68	272	128	101	388	69	415	1854	1062	2677
1214	150	36	160	296	137	174	304	136	368	1867	1208	334
1218	270	93	169	342	70	165	390	95	659	2083	1235	316
1220	7418	2407	1397	16690	2861	4078	5641	1241	2043	26970	11004	3642
1222	1960	690	626	862	26	43	2608	1868	333	938	66	166
1232	176	36	59	65535	4198	0	7811	5839	910	34943	26848	4101
1408	86	14	413	326	83	683	472	171	1477	2212	866	1054
1410	420	282	250	834	281	172	528	335	634	1727	1122	4549

1606	182	105	141	354	24	124	1587	233	327	412	258	45
1610	7958	1900	552	1926	72	116	740	167	172	314	110	46
2003	272	93	75	1612	241	255	902	182	222	2715	1342	853
2004	287	147	52	2101	253	260	169	20	61	183	60	39
2006	616	216	475	2910	479	850	2812	1997	584	1090	248	472
2101	5032	1804	521	612	222	105	3180	1988	606	2339	1606	1945
2105	3956	1149	861	6289	254	945	870	550	310	936	246	158
2106	13386	5111	2111	98	47	32	302	150	28	214	17	86
2107	119	25	34	1896	260	348	192	35	148	230	96	93
2210	154	45	50	642	485	808	899	611	2551	1712	1184	322