

Supplementary data. Table 5. Gene expression fold-change of study groups: Anti-tTG positive FDR, CeD, DC, Anti-tTG negative FDR.

	Genes	ADD3				AGPAT5				RSPRY1				TOM1L1				SLC35F5				FTH			
	Samples	Avg. Target Ct	Avg. Reference Ct	Delta ct	Fold change	Avg. Target Ct	Avg. Reference Ct	Delta ct	Fold change	Avg. Target Ct	Avg. Reference Ct	Delta ct	Fold change	Avg. Target Ct	Avg. Reference Ct	Delta ct	Fold change	Avg. Target Ct	Avg. Reference Ct	Delta ct	Fold change	Avg. Target Ct	Avg. Reference Ct	Delta ct	Fold change
Celiac disease	CeD_1	22.54	11.63	10.91	5.20E-04	31.68	15.66	16.02	1.50E-05	31.02	13.81	17.21	6.60E-06	31.02	13.81	17.21	6.60E-06	30.17	15.41	14.76	3.60E-05	Not detected	15.41	N/A	N/A
	CeD_2	24.18	13.14	11.04	4.75E-04	29.35	13.76	15.59	2.03E-05	27.52	13.95	13.57	8.22E-05	27.52	13.95	13.57	8.22E-05	29.95	13.76	16.19	1.34E-05	27.68	16.23	11.45	3.57E-04
	CeD_3	34.78	22.78	12	2.44E-04	Not detected	27.79	N/A	N/A	Not detected	27.79	N/A	N/A	Not detected	27.79	N/A	N/A	Not detected	27.79	N/A	N/A	Not detected	27.79	N/A	N/A
	CeD_4	24.73	14.26	10.47	7.05E-04	27.83	14.26	13.57	8.22E-05	28.88	13.83	15.05	2.95E-05	28.88	13.83	15.05	2.95E-05	26.4	14.26	12.14	2.22E-04	Not detected	21.92	N/A	N/A
	CeD_5	26.52	17.63	8.89	2.11E-03	28.51	17.63	10.88	5.31E-04	31.98	17.99	13.99	6.15E-05	31.98	17.99	13.99	6.15E-05	29.85	17.63	12.22	2.10E-04	Not detected	24.3	N/A	N/A
	CeD_6	26.11	18.77	7.35	6.14E-03	Not detected	18.77	N/A	N/A	31.43	16.66	14.77	3.58E-05	31.43	16.66	14.77	3.58E-05	30.73	18.77	11.96	2.51E-04	Not detected	18.77	N/A	N/A
	CeD_7	25.33	15.85	9.48	1.40E-03	27.85	15.85	12	2.44E-04	29.4	16.81	12.59	1.62E-04	29.4	16.81	12.59	1.62E-04	29.09	15.85	13.24	1.03E-04	29.21	20.38	8.83	2.20E-03
	CeD_8	34.28	21.83	12.46	1.78E-04	32.24	21.83	10.41	7.35E-04	33.99	21.83	12.16	2.19E-04	33.29	21.83	11.46	3.55E-04	32.68	21.83	10.85	5.41E-04	25.69	19.28	6.41	1.18E-02
Anti-tTG negative FDR	FDR_1	31.07	10.88	20.19	8.36E-07	33.38	10.88	22.5	1.69E-07	Not detected	12.19	N/A	N/A	34.34	11.92	22.42	1.78E-07	34.37	10.88	23.49	8.49E-08	Not detected	12.19	N/A	N/A
	FDR_2	33.51	12.34	21.17	4.24E-07	Not detected	13.02	N/A	N/A	Not detected	14.83	N/A	N/A	33.8	12.15	21.65	3.04E-07	Not detected	28.35	N/A	N/A	Not detected	28.35	N/A	N/A
	FDR_3	Not detected	14.65	N/A	N/A	Not detected	14.3	N/A	N/A	Not detected	17.05	N/A	N/A	Not detected	14.3	N/A	N/A	Not detected	15.46	N/A	N/A	Not detected	17.05	N/A	N/A
	FDR_4	Not detected	17.56	N/A	N/A	Not detected	19.47	N/A	N/A	Not detected	16.56	N/A	N/A	Not detected	19.47	N/A	N/A	33.43	15.46	17.97	3.89E-06	Not detected	16.19	N/A	N/A
	FDR_5	Not detected	16.4	N/A	N/A	Not detected	24.01	N/A	N/A	Not detected	16.4	N/A	N/A	Not detected	16.4	N/A	N/A	Not detected	24.01	N/A	N/A	33.39	15.96	17.44	5.62E-06
	FDR_6	Not detected	16.75	N/A	N/A	Not detected	16.75	N/A	N/A	Not detected	15.56	N/A	N/A	Not detected	13.93	N/A	N/A	Not detected	15.46	N/A	N/A	29.89	14.65	15.24	2.58E-05
	FDR_7	Not detected	13.9	N/A	N/A	Not detected	13.9	N/A	N/A	Not detected	22.23	N/A	N/A	Not detected	13.24	N/A	N/A	Not detected	15.46	N/A	N/A	32.06	13.24	N/A	N/A

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	FDR_8	Not detected	16.1	N/A	N/A	Not detected	16.1	N/A	N/A	Not detected	17.93	N/A	N/A	Not detected	13.5	N/A	N/A	Not detected	15.46	N/A	N/A	27.05	14.45	12.6	1.61E-04
	FDR_9	Not detected	30.58	N/A	N/A	Not detected	17.22	N/A	N/A	Not detected	14.32	N/A	N/A	Not detected	17.22	N/A	N/A	Not detected	17.22	N/A	N/A	30.48	13.45	N/A	N/A
	FDR_10	Not detected	11.46	N/A	N/A	Not detected	14.48	N/A	N/A	Not detected	23.12	N/A	N/A	Not detected	14.48	N/A	N/A	Not detected	14.48	N/A	N/A	28.3	12.98	15.32	2.44E-05
Disease control	DC_1	26.85	14.35	12.5	1.73E-04	28.33	14.35	13.98	6.19E-05	33.87	15.97	17.9	4.09E-06	24.48	12.78	11.7	3.01E-04	28.69	14.35	14.34	4.82E-05	26.59	11.62	14.98	3.11E-05
	DC_2	31	19.68	11.32	3.91E-04	32.46	19.68	12.78	1.42E-04	33.77	18.56	15.22	2.62E-05	30.11	17.8	12.31	1.97E-04	32.99	19.68	13.31	9.85E-05	24.08	15.17	8.91	2.08E-03
	DC_3	Not detected	15.93	N/A	N/A	33.7	18.76	14.94	3.18E-05	Not detected	23.88	N/A	N/A	26.28	15.13	11.15	4.40E-04	29.04	15.93	13.12	1.13E-04	32.42	15.93	16.5	1.08E-05
	DC_4	27.12	15.18	11.94	2.55E-04	29.98	15.18	14.8	3.51E-05	28.91	15.32	13.59	8.11E-05	28.91	15.32	13.59	8.11E-05	28.81	15.18	13.63	7.89E-05	22.69	15.18	7.51	5.49E-03
	DC_5	25.95	10.4	15.55	2.08E-05	29.7	10.4	19.3	1.55E-06	31.18	12.12	19.06	1.83E-06	31.18	12.12	19.06	1.83E-06	26.48	10.73	15.75	1.81E-05	26.56	13.9	12.66	1.55E-04
	DC_6	25.67	16.62	9.05	1.89E-03	32.87	16.62	16.25	1.28E-05	Not detected	16.78	N/A	N/A	33.34	16.78	16.56	1.04E-05	32.48	16.62	15.86	1.68E-05	25.16	17.25	7.91	4.16E-03
Anti-tTG positive FDR	tTG_FDR_1	33.92	20.04	13.88	6.62E-05	32.65	20.04	12.61	1.60E-04	24.85	13.38	11.47	3.53E-04	24.85	13.38	11.47	3.53E-04	34.84	20.04	14.8	3.50E-05	23.3	14.48	8.82	2.21E-03
	tTG_FDR_2	22.64	14.84	7.79	4.51E-03	26.16	14.84	11.31	3.93E-04	28.04	15.62	12.42	1.82E-04	28.04	15.62	12.42	1.82E-04	25.69	14.84	10.84	5.40E-04	25.69	19.71	5.99	1.58E-02

Note: Average Target Ct = Cycle number at which sample shows detectable expression of target gene

Average Reference Ct = Cycle number at which sample shows detectable expression of reference gene

Delta Ct = Average Target Ct - Average Reference Ct

Fold change = $2^{(-\text{Delta Ct})}$

The Ct values of samples which do not show any detectable gene expression upto 35 cycle is written as ‘not detected’ and their respective delta Ct and fold change is written as N/A