

Supplemental Table 1. Patient demographics and characteristics

| Subject # | Group | Gender | Age (yrs) | Duration of GFD or LGD (Low Gluten Diet) (months) | Marsh Grade at diagnosis | Most recent tTG (normal <20 units) | tTG interval ¹ (months) | | |
|-----------|--------|--------|-----------|---|--------------------------------|--|--|-----------------------------------|-----------------------------|
| CD01 | Celiac | F | 25 | 52 | Abnormal (Marsh Grade unknown) | 9 | -10 | | |
| CD02 | Celiac | M | 28 | 25 | Marsh III | 63 | 0 | | |
| CD03 | Celiac | F | 20 | 15 | Abnormal (Marsh Grade unknown) | 19 | 0 | | |
| CD04 | Celiac | F | 61 | 8 | Marsh III | 82 | 1 | | |
| CD05 | Celiac | F | 66 | 56 | Marsh I | 41 | 0 | | |
| CD06 | Celiac | F | 27 | 19 | Marsh III | 4 | 0 | | |
| CD07 | Celiac | F | 72 | 31 | Marsh III | 3 | 0 | | |
| CD08 | Celiac | F | 42 | 28 | Marsh III | 10 | 0 | | |
| CD09 | Celiac | M | 28 | 9 | Marsh III | 26 | 0 | | |
| CD10 | Celiac | F | 18 | 14 | Marsh III | 38 | 0 | | |
| CD11 | Celiac | F | 59 | 60 | Marsh III | >120 | 7 | | |
| CD12 | Celiac | F | 55 | 41 | Marsh III | 108 | 0 | | |
| CD13 | Celiac | F | 32 | 61 | Marsh III | 4 | 0 | | |
| CD14 | Celiac | F | 24 | 3 | Marsh III | 106 | 0 | | |
| CD15 | Celiac | F | 32 | 263 | Abnormal (Marsh Grade unknown) | 5 | 6 | | |
| CD16 | Celiac | F | 22 | 11 | Marsh III | 31 | 0 | | |
| CD17 | Celiac | F | 51 | 76 | Marsh III | 2 | 1 | | |
| CD18 | Celiac | M | 27 | 72 | Abnormal (Marsh Grade unknown) | 43 | 2 | | |
| CD19 | Celiac | F | 22 | 29 | Marsh III | 49 | 0 | | |
| CD20 | Celiac | F | 26 | 15 | Marsh III | 64 | 3 | | |
| CD21 | Celiac | F | 23 | 33 | Marsh III | 19 | 0 | | |
| Means | | | 36.2 | 43.9 | | 36.3 | 0.5 | | |
| SDs | | | 17.0 | 54.8 | | 33.5 | 3.1 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| GI01 | GI | F | 54 | N/A | N/A | 8 | 5 | Diagnosis | Form of IBS (if applicable) |
| GI02 | GI | M | 20 | N/A | N/A | 5 | -22 | autoimmune enteropathy | N/A |
| GI03 | GI | F | 50 | 12 (LGD) | N/A | 7 | 6 | IBS | D |
| GI04 | GI | F | 54 | 33 | N/A | 2 | -26 | IBS | C |
| GI05 | GI | M | 31 | N/A | N/A | N/A | N/A | undefined non-CD | N/A |
| GI06 | GI | F | 27 | 30 | N/A | 1 | 30 | GERD and eosinophilic esophagitis | N/A |
| GI07 | GI | F | 43 | N/A | N/A | 3 | 19 | Gluten sensitivity | N/A |
| GI08 | GI | F | 19 | N/A | N/A | 1 | 4 | GERD | N/A |
| GI09 | GI | F | 54 | N/A | N/A | N/A | N/A | IBS | D |
| GI10 | GI | M | 40 | N/A | N/A | N/A | N/A | GERD | N/A |
| GI11 | GI | F | 60 | N/A | N/A | N/A | N/A | IBS | D |
| GI12 | GI | F | 30 | N/A | N/A | N/A | N/A | GERD | N/A |
| | | | | | | | | | |
| Means | | | 40.2 | 25.0 | | 3.9 | 2.3 | GERD and IBS | D |
| SDs | | | 14.4 | 11.4 | | 2.9 | 20.3 | | |

| Subject # | Group | Gender | Age (yrs) | Duration GFD or LGD | Marsh Grade at diagnosis | Most recent tTG | tTG int. |
|--------------|---------------|--------|-------------|---------------------|--------------------------|-----------------|-------------|
| RCD01 | Refractory CD | F | 52 | 31 | Marsh III | 5 | -1 |
| RCD02 | Refractory CD | F | 65 | 80 | Marsh III | 8 | 0 |
| RCD03 | Refractory CD | M | 26 | 177 | Marsh III | 19 | -2 |
| RCD04 | Refractory CD | F | 50 | 107 | Marsh III | 12 | 0 |
| RCD05 | Refractory CD | F | 53 | 44 | Marsh III | 80 | 1 |
| RCD06 | Refractory CD | M | 62 | 145 | Marsh III | 23 | 0 |
| RCD07 | Refractory CD | M | 71 | 8 | Marsh III | >120 | 0 |
| RCD08 | Refractory CD | F | 54 | 88 | Marsh III | 18 | 0 |
| Means | | | 54.1 | 85.0 | | 23.6 | -0.3 |
| SDs | | | 13.5 | 57.5 | | 25.7 | 0.9 |
| HC01 | HC | M | 27 | N/A | N/A | N/A | N/A |
| HC02 | HC | F | 31 | N/A | N/A | N/A | N/A |
| HC03 | HC | M | 27 | N/A | N/A | N/A | N/A |
| HC04 | HC | M | 27 | N/A | N/A | N/A | N/A |
| HC05 | HC | M | 24 | N/A | N/A | N/A | N/A |
| HC06 | HC | F | 30 | N/A | N/A | N/A | N/A |
| HC07 | HC | F | 28 | N/A | N/A | N/A | N/A |
| HC08 | HC | F | 45 | N/A | N/A | N/A | N/A |
| HC09 | HC | F | 25 | N/A | N/A | N/A | N/A |
| HC10 | HC | F | 24 | N/A | N/A | N/A | N/A |
| HC11 | HC | F | 23 | N/A | N/A | N/A | N/A |
| HC12 | HC | F | 58 | N/A | N/A | N/A | N/A |
| HC13 | HC | F | 24 | N/A | N/A | N/A | N/A |
| HC14 | HC | F | 23 | N/A | N/A | N/A | N/A |
| HC15 | HC | F | 24 | N/A | N/A | N/A | N/A |
| HC16 | HC | F | 28 | N/A | N/A | N/A | N/A |
| HC17 | HC | F | 63 | N/A | N/A | N/A | N/A |
| HC18 | HC | F | 64 | N/A | N/A | N/A | N/A |
| HC19 | HC | F | 69 | N/A | N/A | N/A | N/A |
| HC20 | HC | M | 43 | N/A | N/A | N/A | N/A |
| Means | | | 35.4 | | | | |
| SDs | | | 15.7 | | | | |