NDRG2 gene copy number is not altered in colorectal carcinoma

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Supplementary material
**Supplementary Table S1 Donor information**

| Diagnostic                                      | Age | Sex |
|-------------------------------------------------|-----|-----|
| Normal                                           |     |     |
| Normal 1                                         | 87  | M   |
| Normal 2                                         | 72  | F   |
| Normal 3                                         | 30  | M   |
| Normal 4                                         | 21  | M   |
| Normal 5                                         | 41  | M   |
| Normal 6                                         | 25  | M   |
| Normal 7                                         | 23  | M   |
| Normal 8                                         | 34  | M   |
| CRC 1                                           | 67  | M   |
| CRC 2                                           | 53  | M   |
| CRC 3                                           | 75  | M   |
| CRC 4                                           | 56  | M   |
| CRC 5                                           | 62  | F   |
| CRC 6                                           | 61  | M   |
| CRC 7                                           | 77  | F   |
| CRC 8                                           | 46  | F   |
| CRC 9                                           | 46  | M   |
| CRC 10                                          | 81  | M   |
| CRC 11                                          | 57  | M   |
| CRC 12                                          | 68  | M   |
| CRC 13                                          | 57  | M   |
| CRC 14                                          | 41  | M   |
| CRC 15                                          | 62  | M   |
| CRC 16                                          | 62  | F   |
| CRC 17                                          | 60  | M   |
| CRC 18                                          | 64  | M   |
| CRC 19                                          | 74  | M   |
| CRC 20                                          | 68  | M   |
| CRC 21                                          | 73  | M   |
| CRC 22                                          | 75  | F   |
| CRC 23                                          | 70  | M   |
| CRC 24                                          | 61  | M   |
| CRC 25                                          | 60  | F   |
| CRC 26                                          | 68  | F   |
| CRC 27                                          | 63  | F   |
| CRC 28                                          | 70  | M   |
| Adenocarcinoma                                  |     |     |
| Adenocarcinoma, Poorly Differentiated           |     |     |
| Adenocarcinoma, (LM ) Moderately Differentiated |     |     |
| Adenocarcinoma, (LM ) Moderately Differentiated |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Moderately Differentiated        |     |     |
| Adenocarcinoma, Mucinous Poorly Differentiated   |     |     |
| Adenocarcinoma, Mucuous Poorly Differentated     |     |     |
| Adenocarcinoma, Mucuous Moderately Differentiated|     |     |
| CRC  | Description                                      | Age | Gender |
|------|--------------------------------------------------|-----|--------|
| 29   | Adenocarcinoma, Tubular Moderately Differentiated | 60  | M      |
| 30   | Adenocarcinoma, Ulcer Poorly Differentiated      | 79  | F      |
| 31   | Adenocarcinoma Ulcer, Moderately Differentiated  | 50  | M      |
| 32   | Adenocarcinoma Ulcer, Moderately Differentiated  | 71  | F      |
| 33   | Adenocarcinoma Ulcer, Moderately Differentiated  | 79  | M      |
| 34   | Adenocarcinoma Ulcer, Moderately Differentiated  | 40  | M      |
| 35   | Adenocarcinoma Ulcer, Moderately Differentiated  | 77  | M      |
| 36   | Adenocarcinoma, Ulcer Well Differentiated        | 47  | M      |
| 37   | Adenocarcinoma, Ulcer Well Differentiated        | 62  | F      |
| 38   | Adenocarcinoma, Ulcer Well Differentiated        | 48  | M      |
| 39   | Adenocarcinoma, Ulcer Well Differentated         | 63  | M      |
| 40   | Adenocarcinoma (Flaffy), Well Differentiated     | 67  | M      |

Donor information provided by BioChain Institute. M = male, F = female.
Supplementary Table S2 ddCt values and corresponding copy numbers for the NDRG2 and MYC genes in colorectal tissue

| Colorectal tissue | NDRG2 – 5' end | NDRG2 – 3' end | MYC |
|-------------------|----------------|----------------|-----|
|                   | ddCt ± SD      | Copy number    | ddCt ± SD | Copy number |
| Normal 1          | 0.72 ± 0.40    | loss           | 0.93 ± 0.38 | 2          | 1.02 ± 0.25 | 2 |
| Normal 2          | 1.11 ± 0.44    | 2              | 0.96 ± 0.47 | 2          | 0.76 ± 0.56 | 2 |
| Normal 3          | 0.96 ± 0.33    | 2              | 1.10 ± 0.44 | 2          | 0.76 ± 0.39 | 2 |
| Normal 4          | 0.92 ± 0.25    | 2              | 0.80 ± 0.32 | 2          | 0.91 ± 0.52 | 2 |
| Normal 5          | 0.94 ± 0.39    | 2              | 1.14 ± 0.30 | 2          | 0.86 ± 0.38 | 2 |
| Normal 6          | 0.99 ± 0.32    | 2              | 0.99 ± 0.21 | 2          | 1.03 ± 0.34 | 2 |
| Normal 7          | 1.15 ± 0.43    | 2              | 0.93 ± 0.27 | 2          | 1.06 ± 0.38 | 2 |
| Normal 8          | 1.00 ± 0.39    | 2              | 0.83 ± 0.25 | 2          | 1.31 ± 0.48 | 2 |
| CRC 1             | 1.02 ± 0.00    | 2              | 0.86 ± 0.11 | 2          | 1.86 ± 0.85 | 2 |
| CRC 2             | 0.93 ± 0.08    | 2              | 1.11 ± 0.26 | 2          | 1.15 ± 0.27 | 2 |
| CRC 3             | 1.24 ± 0.27    | 2              | 1.25 ± 0.04 | gain       | 1.04 ± 0.14 | 2 |
| CRC 4             | 1.35 ± 0.06    | gain           | 1.25 ± 0.21 | 2          | 0.97 ± 0.15 | 2 |
| CRC 5             | 1.27 ± 0.21    | 2              | 1.23 ± 0.28 | 2          | 1.17 ± 0.00 | 2 |
| CRC 6             | 1.15 ± 0.15    | 2              | 1.18 ± 0.18 | 2          | 1.41 ± 0.62 | gain |
| CRC 7             | 1.09 ± 0.09    | 2              | 1.06 ± 0.13 | 2          | 0.91 ± 0.07 | 2 |
| CRC 8             | 1.14 ± 0.27    | 2              | 1.10 ± 0.23 | 2          | 0.96 ± 0.03 | 2 |
| CRC 9             | 0.87 ± 0.17    | 2              | 1.02 ± 0.11 | 2          | 0.95 ± 0.05 | 2 |
| CRC 10            | 0.96 ± 0.32    | 2              | 0.96 ± 0.14 | 2          | 0.81 ± 0.19 | 2 |
| CRC 11            | 1.20 ± 0.67    | 2              | 1.05 ± 0.17 | 2          | 1.71 ± 0.12 | gain |
| CRC 12            | 1.43 ± 0.09    | gain           | 1.37 ± 0.09 | gain       | 1.29 ± 0.36 | gain |
| CRC 13            | 1.13 ± 0.40    | 2              | 1.17 ± 0.13 | 2          | 0.91 ± 0.00 | 2 |
| CRC 14            | 0.93 ± 0.26    | 2              | 0.86 ± 0.11 | 2          | 0.74 ± 0.05 | loss |
| CRC 15            | 0.85 ± 0.35    | 2              | 0.81 ± 0.03 | 2          | 0.91 ± 0.02 | 2 |
| CRC 16            | 1.03 ± 0.52    | 2              | 1.03 ± 0.04 | 2          | 1.05 ± 0.01 | 2 |
| CRC 17            | 1.19 ± 0.14    | 2              | 0.82 ± 0.03 | 2          | 0.75 ± 0.30 | 2 |
| CRC 18            | 0.95 ± 0.24    | 2              | 0.92 ± 0.02 | 2          | 0.83 ± 0.11 | 2 |
| CRC 19            | 1.84 ± 0.50    | gain           | 1.26 ± 0.06 | gain       | 1.51 ± 0.40 | gain |
| CRC 20            | 1.09 ± 0.41    | 2              | 0.78 ± 0.03 | 2          | 0.55 ± 0.15 | loss |
| CRC 21            | 1.32 ± 0.42    | gain           | 0.86 ± 0.28 | 2          | 0.99 ± 0.44 | 2 |
| CRC 22            | 0.84 ± 0.01    | 2              | 0.70 ± 0.25 | loss       | 1.12 ± 0.75 | 2 |
| CRC 23            | 0.86 ± 0.22    | 2              | 0.82 ± 0.02 | 2          | 1.32 ± 0.88 | gain |
| CRC 24            | 1.38 ± 0.42    | gain           | 0.91 ± 0.03 | 2          | 1.61 ± 0.44 | gain |
| CRC 25            | 0.85 ± 0.09    | 2              | 0.97 ± 0.19 | 2          | 1.84 ± 0.89 | gain |
| CRC 26            | 1.50 ± 0.18    | gain           | 1.16 ± 0.31 | 2          | 1.64 ± 1.01 | gain |
| CRC 27            | 0.83 ± 0.41    | 2              | 1.00 ± 0.41 | 2          | 0.54 ± 0.15 | loss |
| Sample | ddCt | SD  | ddCt | SD  |
|--------|------|-----|------|-----|
| CRC 28 | 1.09 ± 0.09 | 2 | 0.91 ± 0.24 | 2 |
| CRC 29 | 1.02 ± 0.11 | 2 | 1.07 ± 0.43 | 2 |
| CRC 30 | 0.91 ± 0.42 | 2 | 1.25 ± 0.18 | 2 |
| CRC 31 | 0.37 ± 0.02 | loss | 0.38 ± 0.07 | loss |
| CRC 32 | 1.19 ± 0.36 | 2 | 0.79 ± 0.13 | 2 |
| CRC 33 | 1.15 ± 0.11 | 2 | 0.84 ± 0.26 | 2 |
| CRC 34 | 1.37 ± 0.31 | gain | 1.32 ± 0.05 | gain |
| CRC 35 | 1.20 ± 0.06 | 2 | 0.94 ± 0.01 | 2 |
| CRC 36 | 1.08 ± 0.35 | 2 | 1.49 ± 0.85 | gain |
| CRC 37 | 1.08 ± 0.01 | 2 | 1.56 ± 0.79 | gain |
| CRC 38 | 0.69 ± 0.16 | loss | 0.94 ± 0.19 | 2 |
| CRC 39 | 1.09 ± 0.05 | 2 | 0.97 ± 0.06 | 2 |
| CRC 40 | 1.28 ± 0.44 | gain | 0.85 ± 0.02 | 2 |

ddCt = delta delta Ct, SD = standard deviation
All samples were analysed in triplicate. Normal genomic DNA from blood lymphocytes was used as reference DNA and values were normalised to GFAP. Copy number loss is defined as ddCt < 0.75 and a gain is defined as ddCt > 1.25.