**Figure A**
LARGE2 (TCGA-COAD)

- **FKPM UQ**
  - Normal: 15
  - Tumor: 20
  - n = 41
  - p < 0.0001

**Figure B**
LARGE2 (TCGA-READ)

- **FKPM UQ**
  - Normal: 10
  - Tumor: 25
  - n = 10
  - p < 0.001

**Figure C**
LARGE2 (TCGA-READ)

- **FKPM UQ**
  - Normal: 10
  - Tumor: 20
  - n = 10
  - p = 0.0020

**Figure D**
LARGE2 (TCGA-COAD)

- **FKPM UQ**
  - Normal: 10
  - Tumor: 25
  - n = 365
  - n = 71

**Figure E**
PDTO

- #1
- #4
- #13

**Figure F**
PDTO

- #7
- #16
- #17

**Figure G**

- PDT010
- PDT016

**Figure H**
KM12-L4a

- **Relative gene expression**
  - LARG2
  - LGR5
  - AXIN2

**Figure I**
KM12-L4a (+ 4-OHT)

- **Relative gene expression** normalized to ERT 0 hrs

**Figure J**

- SW620 - LARGE2 KO (transfected subclones)

- **Relative migration through laminin-111**
  - control
  - clone 5
  - clone 7
  - p < 0.001
Additional File 10: LARGE2/α-DG expression in primary and liver metastatic CRC

A-C) LARGE2 expression analysis on TCGA datasets: (A) comparison of COAD patient-matched normal human mucosa samples and tumor tissues, (B) READ normal tissue and tumor tissue and (C) patient-matched READ tumor and normal samples.

D) LARGE2 gene expression analysis on the TCGA-COAD dataset, comparing tissue samples M0 (not metastatic) and M1 (metastatic) CRC cases.

E,F) Immunoblot analysis of O-glycosylated α-DG in WGA-AE purified glycoprotein fractions from a panel of primary and liver metastatic CRC PDTOs. WCL was used to detect β-DG and tubulin.

G) Immunohistochemistry analysis of O-glycosylated α-DG (IIh6 antibody) on formalin-fixed paraffin-embedded patient derived tissue samples (matching primary tissues to PDTOs 10 and 16).

H) Immunoblot analysis of glycosylated α-DG after KO of LARGE2 via CRISPR/Cas9 in KM12-L4a cells using two different guideRNAs. WCL was used to detect β-DG and tubulin.

I) Gene expression analysis of indicated genes via qRT-PCR from KM12-L4a-NE or -E cells after treatment with 400 nM 4-OHT for 24 hours. Expression was compared to –ERT cells, or to –NE cells without 4-OHT treatment. Mean values ± SD (n=3) are provided. **** p < 0.0001

J) Transwell migration assays of CRC cells through laminin-111 coated membranes. SW620 cell lines harboring a LARGE2 knockout were compared to control cells. ** p < 0.01, *** p < 0.001.