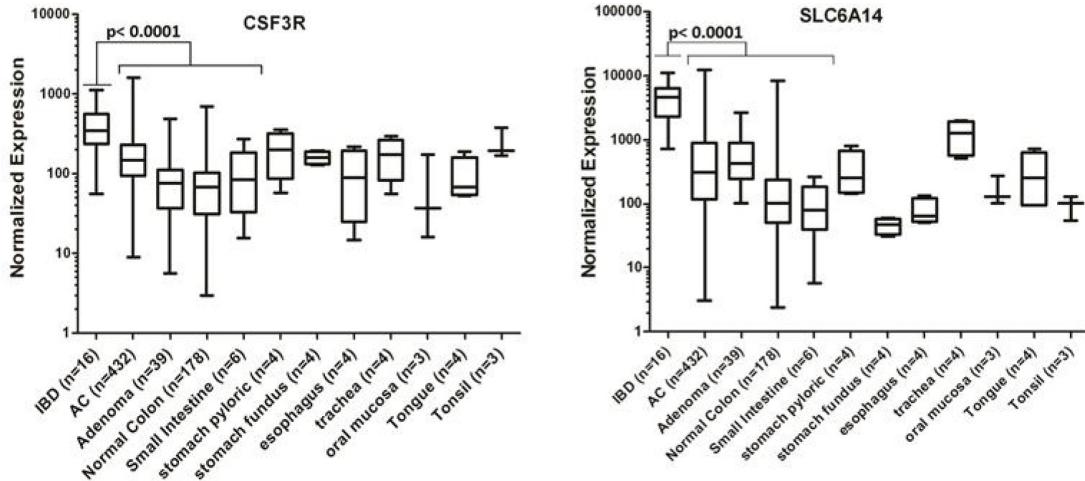
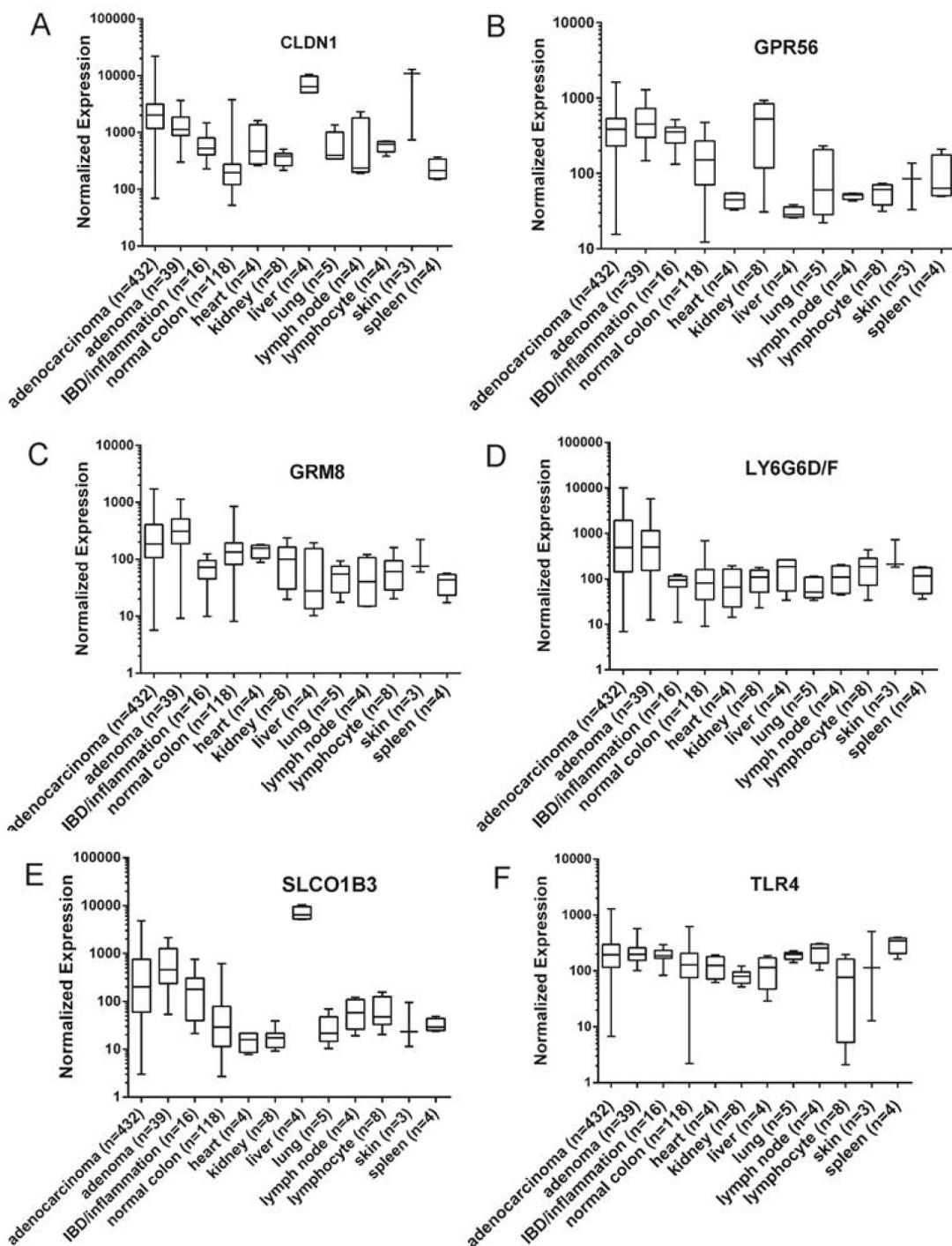


## Cell-surface markers for colon adenoma and adenocarcinoma

### SUPPLEMENTARY FIGURES AND TABLES



**Figure S1: Microarray mRNA expression profiles of IBD cell-surface markers.** Values are presented as a whiskers/box plot with whiskers representing the full range of values, the box representing 50 percentile and middle line representing the median. Y-axis is log10 scale.



**Figure S2: Microarray mRNA expression profiles of cell-surface markers in CRC and in non-neoplastic normal gastrointestinal tissues and tissues involved in systemic toxicity and clearance.** Values are presented as a whiskers/box plot with whiskers representing the full range of values, the box representing 50 percentile and middle line representing the median. Y-axis is log10 scale.

**Table S1: Normalized mRNA expression in colorectal adenomas, adenocarcinomas and normal colon tissues (sorted by p-value)**

See Supplementary File 1

**Table S2: Proximal vs. Distal location of marker proteins (two sample t-test using the Satterthwaite method)**

Gene/Variable	Location/Class (n)	Mean	LowerCL Mean	UpperCL Mean	StdDev	P value*
CLDN1	distal (42)	5.4048	4.6351	6.1744	2.4699	0.8196
CLDN1	proximal (36)	5.5278	4.7584	6.2972	2.2739	.
GPR56	distal (37)	6.4865	5.6865	7.2865	2.3993	0.0342
GPR56	proximal (30)	7.7000	6.8846	8.5154	2.1838	.
GRM8	distal (40)	4.2750	3.6395	4.9105	1.9870	0.2942
GRM8	proximal (34)	4.7647	4.0719	5.4575	1.9857	.
LY6G6D/F	distal (32)	4.5938	3.6427	5.5448	2.6379	0.0185
LY6G6D/F	proximal (25)	6.1667	5.2376	7.0957	2.2001	.
SLCO1B3	distal (40)	1.7750	1.4636	2.0864	0.9737	0.0375
SLCO1B3	proximal (34)	2.4706	1.8865	3.0547	1.6740	.
TLR4	distal (33)	4.0000	3.1875	4.8125	2.2913	0.2706
TLR4	proximal (25)	4.7200	3.6709	5.7691	2.5417	.
MLH1	Distal (46)	3.7609	2.7706	4.7511	3.3346	0.4992
MLH1	proximal (35)	3.2857	2.2736	4.2978	2.9463	.
PMS1	distal (44)	4.8409	4.0964	5.5855	2.4490	0.5047
PMS1	proximal (34)	5.2059	4.3920	6.0198	2.3326	.
MSH2	distal (47)	5.4468	4.6420	6.2516	2.7411	0.1238
MSH2	proximal (35)	4.6000	3.8492	5.3508	2.1855	.
PMS2	distal (46)	5.6522	5.1201	6.1842	1.7916	0.2912
PMS2	proximal (35)	6.1143	5.4134	6.8152	2.0403	.
MSH6	distal (38)	6.3947	5.4920	7.2975	2.7464	0.0592
MSH6	proximal (33)	7.5455	6.7277	8.3632	2.3061	.

\*Rows with significant values are shaded grey.

**Table S3: Pearson Correlation Coefficients analysis for marker and mismatch repair proteins**

	Pearson Correlation Coefficient	p value*	Number of Observations
	GPR56	LY6G6D/F	SLCO1B3
<b>MLH1</b>	0.17277	0.21819	0.22770
	0.1722	0.1202	0.0599
	64	52	69
<b>PMS1</b>	0.10902	0.35373	0.08314
	0.3912	0.0101	0.5003
	64	52	68
<b>MSH2</b>	0.03401	-0.00463	-0.00849
	0.7964	0.9740	0.9456
	60	52	67
<b>PMS2</b>	0.46501	0.53076	0.25184
	0.0001	<.0001	0.0368
	64	52	69
<b>MSH6</b>	0.54341	0.43072	0.27499
	<0.0001	0.0010	0.0212
	66	55	70

\*Significant p values are shown in red font.

**Table S4: List of cell-surface, plasma-membrane associated and secreted Affymetrix probesets**

See Supplementary File 2

**Table S5: Antibodies and dilutions for IHC, Western blot and ICC**

<b>Antibody</b>	<b>Product</b>	<b>Species</b>	<b>Dilution</b>	<b>Control Tissue</b>	<b>Size kDa</b>
CLDN1	LS Bio C104910, LifeSpan BioSciences, Inc.	Monoclonal Mouse	1:600	Colon (N)	95
TLR4	Mab 14783, R&D Systems	Monoclonal Mouse	1:200	Prostate Cancer	75
LY6G6D/F	HPA008053, Sigma Aldrich	Polyclonal Rabbit	1:20	Normal testis	102
GPR56	TM7XN1/GPR56, Thermo Scientific	Polyclonal Rabbit	1:100	Brain GBM	18
GRM8	Ab53094, Abcam	Polyclonal Rabbit	1:100	Brain	78
SLCO1B3	HPA004943, Sigma Aldrich	Polyclonal Rabbit	1:1250	HepatoCa	37

\*Note: LY6G6D is a truncated form of LY6G6F and the antibody used cross-reacts with both isoforms.

**Table S6:** Primer sets for qRT-PCR

Target Gene	Accession No.	Primer	Sequence (5' to 3')	Product Size (bp)
<b>TLR4</b>	NT_008470.19	forward reverse	tgg cca ttg ctg cca aca tca t tca aag ata cac cag cgg ctc t	113
<b>GPR56</b>		forward reverse	agt tct ggg cct ttg gca ttc a agc aca atg caa ggc aca cag t	
<b>GRM8</b>	AY608335	forward reverse	tgt gtt tca gct atg cag ccc t act tgg gcg ctg tga cag att t	90
<b>CLDN1</b>	NM_021101.4	forward reverse	tgg aaa ggg tgt tgg cat tgg gca gcc aaa tgc ctt gct caa	92
<b>SLC01B3</b>	NM_019844	forward reverse	ttg gct ttg cac tgg gat ctc t aac caa gcc acc aag ctc caa	121
<b>LY6G6D</b>	NM_021246	forward reverse	atc ttg ctc agc tcc ctg ct tca cgg cct ctt tgc aag aac t	97