

Supplementary Table 2: The differentially expressed Transcription factor in UC epithelium and colonoid (Relate to Figure 2D)

The differentially expressed transcripton factors between inflamed vs uninflamed in UC epithelium

	p_val	avg_log2FC	pct.1	pct.2	p_val_adj
IRF1	3.220E-15	0.633	0.539	0.249	6.231E-11
STAT1	3.038E-12	0.515	0.359	0.141	5.880E-08
STAT3	6.409E-12	0.281	0.645	0.374	1.240E-07
CEBPD	2.096E-11	0.463	0.465	0.224	4.056E-07
HES6	2.806E-09	0.380	0.335	0.141	5.430E-05
HIF1A	4.056E-09	0.271	0.359	0.166	7.848E-05
XBP1	9.188E-09	0.468	0.722	0.540	1.778E-04
RBCK1	1.525E-08	0.301	0.518	0.300	2.951E-04
ZNF511	2.870E-08	0.298	0.437	0.242	5.555E-04
HMGN3	2.873E-08	0.392	0.539	0.335	5.559E-04
GTF3A	3.519E-08	0.396	0.510	0.300	6.810E-04
NFIC	4.003E-08	0.323	0.363	0.176	7.747E-04
RUNX1	8.142E-08	0.267	0.216	0.074	1.575E-03
FOS	4.606E-07	-0.502	0.902	0.924	8.912E-03
DNMT1	6.881E-07	0.347	0.298	0.145	1.332E-02
EHF	7.749E-07	0.320	0.514	0.339	1.500E-02
HMGA1	8.961E-07	0.430	0.551	0.395	1.734E-02

The differentially expressed transcription factors between TNF treated vs. Untreated in colonoid

	p_val	avg_log2FC	pct.1	pct.2	p_val_adj
Nfic	2.856E-277	0.233	0.631	0.438	4.947E-273
Irf1	8.304E-182	0.126	0.431	0.276	1.438E-177
Hmga1	5.935E-133	0.064	0.251	0.143	1.028E-128
Cebpd	1.804E-91	0.117	0.577	0.451	3.125E-87
Stat1	2.415E-71	0.047	0.224	0.146	4.183E-67
Hes6	1.714E-52	-0.243	0.759	0.725	2.969E-48
Rbck1	3.474E-50	0.040	0.521	0.411	6.016E-46
Ehf	4.427E-49	-0.224	0.779	0.730	7.667E-45
Zfp511	1.930E-45	0.020	0.332	0.252	3.342E-41
Dnmt1	3.571E-45	0.044	0.419	0.329	6.185E-41
Runx1	5.568E-45	0.027	0.395	0.306	9.644E-41
Fos	2.700E-42	0.075	0.634	0.526	4.677E-38
Stat3	4.589E-36	0.031	0.530	0.431	7.947E-32
Xbp1	3.181E-33	0.052	0.811	0.709	5.509E-29
Hif1a	1.047E-25	0.003	0.542	0.449	1.814E-21
Gtf3a	6.862E-07	-0.041	0.711	0.619	1.188E-02
Hmgn3	1.242E-01	-0.003	0.003	0.004	1.000E+00