Supplemental Materials

Supplemental Figures



Figure S1. Comparison of DNA with or without RBPJ binding motifs in competing the interactions of RBPJ and the Cy5 DNA probe containing an RBPJ binding motif. GST-RBPJ coupled beads were incubated with unlabeled DNA with an RBPJ binding motif or with salmon sperm DNA for 30 minutes at room temperature. The Cy5-labeled DNA probe with an RBPJ binding motif was then added to 90 nM (1x), the reactions were incubated for 60 min at room temperature before flow cytometry analysis. The unlabeled DNA probe with an RBPJ binding motif competed more efficiently than salmon sperm DNA for RBPJ-Cy5 DNA probe interactions. Shown is mean +/-SEM, n=4.



Figure S2. Auranofin treatment does not alter RBPJ protein levels. Western blot analysis showing the RBPJ protein levels in 293T cells with or without 2.5 μ M auranofin treatment for 24 hours.

Table S1. Raw data for Figure 3B. Shown are firefly luciferase activities (top) and renilla luciferase activities (bottom). 293T cells were transfected with 4xRBPJ-firefly luc and TK-renilla luc. Notch-On cells had NICD, and Notch-Off cells contained the empty vector. 48-hr post transfection, cells were treated with varying amounts of auranofin for 24 hours, and luciferase activities were determined.

4xRBPJ-Fluc		Notch Off			Notch ON	
auranofin (uM)	n1	n2	n3	n1	n2	n3
DMSO	93488	91344	120514	492118	462068	459822
1	110964	99623	89956	300263	506446	325391
2	51628	46576	72924	104389	259154	256557
4	99046	132567	100626	141629	275057	270991
6	105792	50476	22119	30036	18645	43223
8	4680	4924	5308	6731	6119	32202
10	3100	3661	4045	7625	6229	6158

TK-Rluc	Notch Off			Notch ON		
auranofin (uM)	n1	n2	n3	n1	n2	n3
DMSO	30839	28059	30073	5012	3913	4163
1	31299	31362	24578	3197	4053	3648
2	10407	10801	16141	2142	2729	2848
4	10533	8136	8529	1534	1725	2773
6	4050	2101	1217	1177	1635	1832
8	1678	957	872	961	968	1184
10	1792	1692	1253	831	1522	1874

Table S2: Primers used in qPCR						
Name of primer set	Primer name	Sequence (5' to 3')				
Primers used for ChIP-qPCR						
hHES1	hHES1_ChIP_F	CCT CCC ATT GGC TGA AAG T				
	hHES1_ChIP_R	CGG ATC CTG TGT GAT CCC TA				
hHEY1	hHey1_pro_F3	CCGCATGAATGGAGAAGAAT				
	hHey1_pro_R3	AGGCTCCGATTACAGGTTCA				
4xCSLbs	4xCSL-LUC_for	AAC AGT ACC GGA ATG CCA AG				
	4xCSL-LUC_rev	TGG TTT GTC CAA ACT CAT CAA				
mHes1	mHes1_for	TCCTCCCATTGGCTGAAAGTT				
	mHes1_rev	ATATCTGGGACTGCACGCGAAC				
m 7fm 0.04	mZfp334_for	AAACGGAAACGCATCCATAG				
IIIZIp554	mZfp334_rev	CAACTCCCTGTGGGAAATGT				
mNanrt1	mNaprt1_for	GCACCAAAGGCAAAACAACT				
Пімаріті	mNaprt1_rev	CTCTAGGGGGCTCTCAGCTT				
mNanog	mNanog_for	GGAGAATAGGGGGTGGGTAG				
	mNanog_rev	CAGCCTTCCCACAGAAAGAG				
m∆otB	mActB_for	GACCAGGCCGTATATGGAGA				
IIIACID	mActB_rev	AGCAGTCTGCAAAGCAGTGA				
primers used for RT-qPCR						
hHEY1	hHES1_RT_F	GCT GTT GCC CTG GAG TTG				
	hHES1_RT_R	ACG CTT TGC CTC TGG TTA AA				
hHES1	hHey1_RT_F	TCA ACA CGA CAC CGG ATA AA				
	hHey1_RT_R	TCA GCT GGC TCA GAC TTT CA				
hTCERG1	hTCERG1_RT_F	ATC CTA ATA TGC CGC CAA TG				
	hTCERG1_RT_R	GAG GCA TGA AAG GTG GTC TC				
hΔTCB	hACTb_RT_F	TCG TGC GTG ACA TTA AGG AG				
IAICD	hACTb RT R	ATG CCA GGG TAC ATG GTG GT				