Supplemental material

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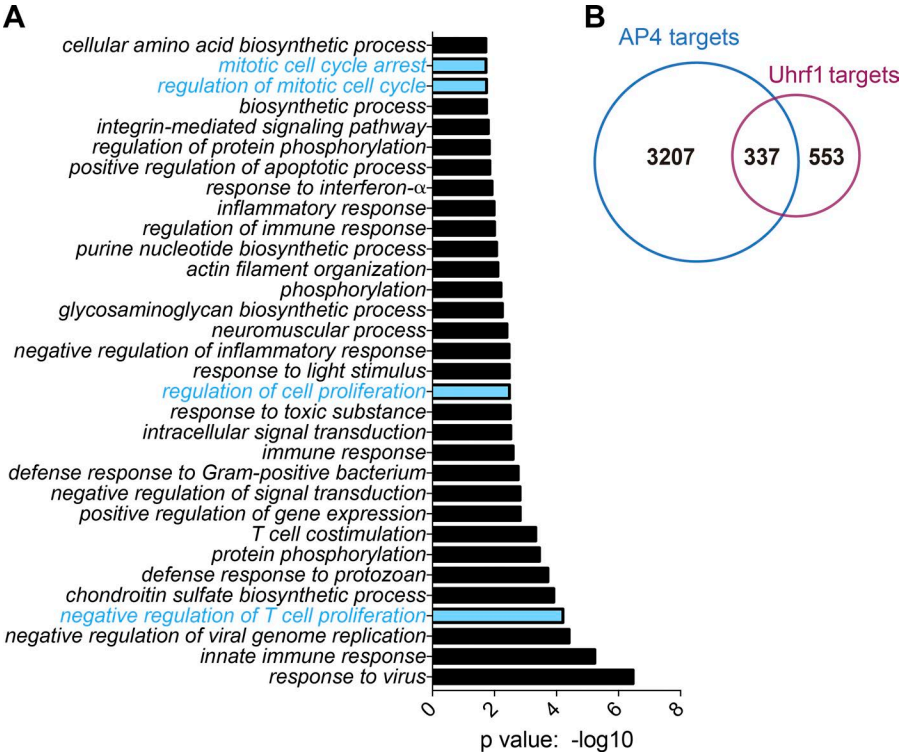

Figure S1. **RNA-seq analysis of Uhrf1 WT and KO GC B cells. (A)** GO-term pathway enrichment analysis of differentially expressed genes (DEGs, $P < 0.05$; fold change > 1.2) between Uhrf1 WT and KO GC B cells. Cell proliferation–associated pathways are highlighted in blue. **(B)** Venn diagram showed the comparison between AP4 targets and Uhrf1 targets. AP4 targets were derived from DEGs of AP4-positive and -negative GC B subsets (GSE80669; $P < 0.05$; fold change > 1.5). Uhrf1 targets were DEGs ($P < 0.05$; fold change > 1.2) of Uhrf1 WT and KO GC B cells from RNA-seq.

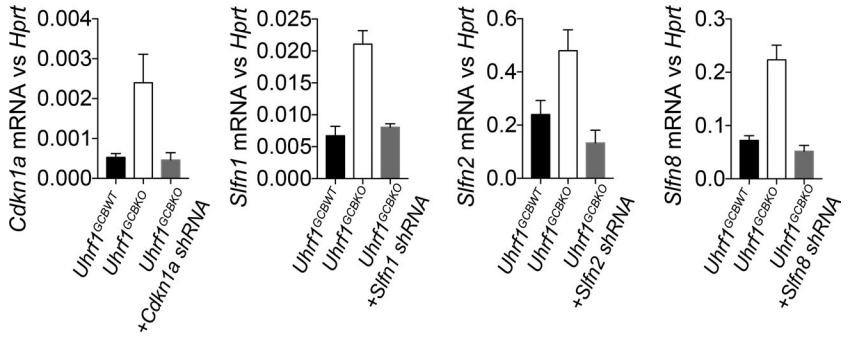

Figure S2. **shRNA knockdown efficiency validation.** shRNA knockdown efficiency of *Cdkn1a*, *Slfn1*, *Slfn2*, and *Slfn8* were quantified by RT-qPCR with FACS-sorted transduced GC B cells from Figs. 5 G and 6 E. Data are representative of two experiments. Error bars show means ± SEM.

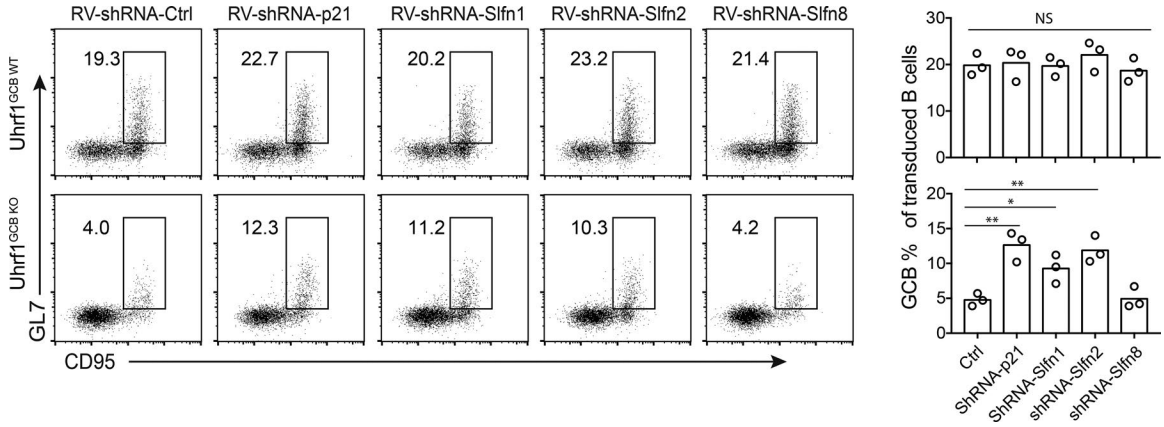

Figure S3. **GC rescue by p21 and Slfns shRNA.** In vitro activated B cells from Uhrf1^{GCBWT} or Uhrf1^{GCBKO} mice were transduced with retroviral shRNA for p21 and Slfns as indicated, adoptively transferred into MD4 BCR transgenic mice, and then immunized with SRBCs for 8 d. GC response of transduced B cells was analyzed by flow cytometry. Data are representative of two experiments. Statistical analysis was done with two-way ANONA. Error bars show means ± SEM. *, P < 0.05; **, P < 0.01; ***, P < 0.001.

Table S1. **Oligonucleotide sequences**

qPCR primers	Sequence (5′–3′)
Slfn1-5QF	CTTTGCCTTACTTCCTCTGG
Slfn1-3QR	AGAATCAGCACAGGGGTCC
Slfn2-5QF	TTTGAAGCAGAGAAGAGCGAT
Slfn2-3QR	AACCTCTTCACACAGCCGC
Slfn8-5QF	TGCGTAAAGGCTATTCTCTCC
Slfn8-3QR	CACAATGCTTCTTTCCAGTCCT
uhrf1-5QF	AGGAGAAGAGCAGGAAGCG
uhrf1-3QR	GCGTTGCCCTTGTCCTCT
Cdkn1a-5QF	AACATTCCAGCCCTTCCCC
Cdkn1a-3QR	ACTGCCAATCACCACACTATCCT
shRNA sequences	For GC B transduction, two shRNA sequences were combined
AP4 sh1F	GATCCGCGAGCAGTTATCGTGAAGTCTTTCAAGAGAAGACTTCACGATAACTGCTCGTTTTTTG
AP4 sh1R	AATTCAAAAAACGAGCAGTTATCGTGAAGTCTTCTCTTGAAAGACTTCACGATAACTGCTCGCG
AP4 sh2F	GATCCGACACAGCTCAAGCGCTTTATCTTCAAGAGAGATAAAGCGCTTGAGCTGTGTTTTTTTG
AP4 sh2R	AATTCAAAAAAACACAGCTCAAGCGCTTTATCTCTCTTGAAGATAAAGCGCTTGAGCTGTGTCG
c-Myc sh1F	GATCCGCTGGAGATGATGACCGAGTTATTCAAGAGATAACTCGGTCATCATCTCCAGTTTTTTG
c-Myc sh1R	AATTCAAAAAACTGGAGATGATGACCGAGTTATCTCTTGAATAACTCGGTCATCATCTCCAGCG
c-Myc sh2F	GATCCGCATCCTATGTTGCGGTCGCTATTCAAGAGATAGCGACCGCAACATAGGATGTTTTTTG
c-Myc sh2R	AATTCAAAAAACATCCTATGTTGCGGTCGCTATCTCTTGAATAGCGACCGCAACATAGGATGCG
P21-shRNA 5F	GATCCGAGTGAGCAGTTGCGCCGTGATCTCGAGATCACGGCGCAACTGCTCACTTTTTTG
P21-shRNA 3R	AATTCAAAAAAGTGAGCAGTTGCGCCGTGATCTCGAGATCACGGCGCAACTGCTCACTCG
Slfn1 sh 1F	GATCCGAGCAAAGAATTGCCAGCCTAATTCAAGAGATTAGGCTGGCAATTCTTTGCTTTTTTTG
Slfn1 sh 1R	AATTCAAAAAAAGCAAAGAATTGCCAGCCTAATCTCTTGAATTAGGCTGGCAATTCTTTGCTCG
Slfn1 sh 2F	GATCCGACATGGAATAGGAGAAGATTTTTCAAGAGAAAATCTTCTCCTATTCCATGTTTTTTTG
Slfn1 sh 2R	AATTCAAAAAAACATGGAATAGGAGAAGATTTTCTCTTGAAAAATCTTCTCCTATTCCATGTCG
Slfn2 sh 1F	GATCCGAGAATGGCACCTGGAGGATTTTTCAAGAGAAAATCCTCCAGGTGCCATTCTTTTTTTG
Slfn2 sh 1R	AATTCAAAAAAAGAATGGCACCTGGAGGATTTTCTCTTGAAAAATCCTCCAGGTGCCATTCTCG
Slfn2 sh 2F	GATCCGATGGGCATCAGTGTTGATCTGTTCAAGAGACAGATCAACACTGATGCCCATTTTTTTG
Slfn2 sh 2R	AATTCAAAAAAATGGGCATCAGTGTTGATCTGTCTCTTGAACAGATCAACACTGATGCCCATCG
Slfn8 sh 1F	GATCCGGCGTATCTCTGTGATTCTAACTTCAAGAGAGTTAGAATCACAGAGATACGCTTTTTTG
Slfn8 sh 1R	AATTCAAAAAAGCGTATCTCTGTGATTCTAACTCTCTTGAAGTTAGAATCACAGAGATACGCCG
Slfn8 sh 2F	GATCCGATCAAATACAGGCCTACTGATTTCAAGAGAATCAGTAGGCCTGTATTTGATTTTTTTG
Slfn8 sh 2R	AATTCAAAAAAATCAAATACAGGCCTACTGATTCTCTTGAAATCAGTAGGCCTGTATTTGATCG