

Table S5: Sequences of mRNA siRNAs, primers of genes and gDNA, sgRNA Related to STAR Methods		
Name	Sense (5'-3')	Antisense (5'-3')
ZFP90 siRNA	GCAGCAGGAUGUAUCAGAATT	UUCUGAUACAUCUGCUGCTT
NFATC1 siRNA	GGUCAUUUUCGUGGAGAAATT	UUUCUCCACGAAAAUGACCTT
NFATC2 siRNA	CCAUUAAACAGGAGCAGAATT	UUCUGCUCCUGUUUAAUGGTT
NFATC3 siRNA	GGUUGUGACUGGAUCUAAUTT	AUUAGAUCCAGUCACAACCTT
NFAT5 siRNA	GUACCUUGUAAAUCACGAATT	UUCGUGAUUUUACGAGGUACTT
PRDM1 siRNA	GGAAAGGACCUCUACCGUUTT	AACGGUAGAGGUCCUUUCCTT
BMP4 siRNA	GCCAGGAAGAAGAAUAAAGATT	UCUUUUUUUUUUUCCUGGCTT
sgRNA	Top (5'-3')	Bottom (5'-3')
HCT116 ZFP90-KO	AGAAGAGCCATGGATATCAG	CTGATATCCATGGCTCTTCT
DLD1 ZFP90-KO	TCCTCTGAGCAGGGTCGACA	TGTCGACCCTGCTCAGAGGA
△S3-5 sgRNA6	CCTCAGTATATCTTTAATCCCTT	AAGGGATTAAAGATATACTAGG
△S3-5 sgRNA11	CCATGGAGCATTCTGCAAGAG C	GCTCTGCAGAAATGCTCCATGG
△S2 sgRNA3	CCACCTGGATTGGCTTCCAACC	GGTTGGAAGCCAATCCAGGGTGG
△S2 sgRNA8	CCCGCAGCACTCATTTAACCCC	GGGGTTAAAATGAGTGCTGCGGG
△RR sgRNA1	ATCTCCTGTGGTGGTAGCA	TGCTACCACCACAAGGAGAT
△RR sgRNA9	ACACGTAATGACTGTCATAG	CTATGACAGTCATTACGTGT
SNP-rs7198799_CT to TT sgRNA9	GCATGGTGTTGGTTATGTGA	TCACATAACCAACACCATGC
SNP-rs7199991_TG to GG sgRNA3	CTGTCAATGATGTGTCTATC	GATAGACACATCATTGACAG
SNP-rs7198799_CT to CC sgRNA9	GCATGGTGTTGGTTATGTGA	TCACATAACCAACACCATGC
Zfp90 Global Knockout Mice sgRNA1	TTCGACAGAATCGTACACGC	GCGTGACGATTCTGTGCGAA
Zfp90 Global Knockout Mice sgRNA2	CCGCTACAATAGTGAGACCT	AGGTCTCACTATTGTAGCGG
Zfp90 Conditioned Knockout Mice sgRNA1	GCTATCTAATAGTTACTGT	ACAGTAACCTATTAGATAGC
Zfp90 Conditioned Knockout Mice sgRNA2	CCGCCCCAAGTCAATTTTAC	GTAAAATTGACTTGGGGCGG
Primers of 3C-seq inverse PCR	Forward	Reverse
ZFP90 TSS	ACGCCACCACACCCTGCTAA	GGTGCAAAGCTGTCAGATGG
rs9929218(RR)	CCATGCCTGGCTTGT	TACCTGGACTGTTCCCATTT
rs7198799(RL)	AACAATGCCTTAGTGAATAACC	AAGCTCTTTATGCTCTGCA
Primers of 3C-qPCR	Forward	Reverse
SNP region (RL+RR) (ZFP90 TSS bait)		
P1	CAGGGACACTGCCTTTCTTAT	TTCCAGGCTGAAGAACTGAA
P2	GGCTGACTTCAGACTTGTACT	AACTGCAGGTGCATAAGGG
P3 (rs7198799, RL)	GCTAGCACAACAATGCCTTAG	TTCCAGGCTGAAGAACTGAA
P4 (rs7198799 RR)	CCCATCCCACATTGCTGTTA	TCCAGGCTGAAGAACTGAAG
P5	CAGTGAAGACAGAGACGATACA TAA	TTCCAGGCTGAAGAACTGAA
ZFP90 TSS (rs7198799, RL bait)		
P1	CCTGGGTGAAAGAGTGAAACT	ACATTGGTGCCTCTAAGCC
P2	GGACTCAAAGAGTGAGCAGTAG	ACATTGGTGCCTCTAAGCC

P3	CTGCTCTGCTCACTCTCTTATC	ACATTGGTGCCTCTAAGCC
P4 (ZFP90 TSS)	GTAAGTAGATGGCTACGGTTCTG	ACATTGGTGCCTCTAAGCC
P5	GTGGCAGAAGCTTGTGTTTG	GTTCAGAGAGAGAAAGCCACAG
P6	AAGACCAGCCTCCCTTCT	GGTTCAGAGAGAGAAAGCCACAG
ZFP90 TSS (rs9929218, RR bait)		
P1	CCTGGGTGAAAGAGTGAAACT	AAATGGGAACAGTCCAGGTAAA
P2	GAGTGAGCAGTAGCAAGGTTTA T	CATTTCTGCAAGAGCAGCAAC
P3	CTCACTCTCTTATCCCTCACTCT	AACAGTCCAGGTAAATGCC
P4 (ZFP90 TSS)	ACGGTTCTGAAATGGAGATGG	AAGAGCAGCAACCAGGAAA
P5	TGTTGTTACTGGGCCAAAGAG	CATTTCTGCAAGAGCAGCAAC
P6	CCTCCCTTCTCAAGCTTTCC	AAGAGCAGCAACCAGGAAA
Primers of PCR		
△S3-5		
HR (homologous recombination) allele PCR screening		
CL-WFZ-003-L-GT-F/PU△TK-GT-F	AGCACTCCCTCCTTATCCTTCCTC C	CTCGACTGTGCCTTCTAGTTGCCAG
Neo-GT-R/CL-WFZ-003-R-GT-R	CAGAGGCCACTTGTGTAGCG	ACAGGAAAGCCGTTGTGGAATTCAG
FS(Frameshift) allele PCR screening		
CL-WFZ-003-FS-F1/CL-WFZ-003-FS-R1	CTTCATTCTCCACCCTCCTCCACA C	TCCCTTCTCAGGCCATCTGGAAACA
Del (Deletion) allele PCR screening		
CL-WFZ-003-Del-F/CL-WFZ-003-Del-R	CTTCATTCTCCACCCTCCTCCACA C	GAGTGACCCACAGGTGCCAGAATC
△S2		
HR (homologous recombination) allele PCR screening		
CL-WXH-001-L-GT-F/PU△TK-GT-F	GTCAGAAGGCAGGAAGTTCTCT GGG	GTCGACTGTGCCTTCTAGTTGCCAG
SV40pro-R/CL-WXH-001-R-GT-R	GAATAGCTCAGAGGCAGAGG	CCTGTCACAGTTGGTGGGAACATTT
FS(Frameshift) allele PCR screening		
CL-WFZ-001-FS-F1/CL-WFZ-001-FS-R1	CATCCCCAGCTGAAACCCTCTCA T	GTAGATCACTTGAAATCAGCCTGGCC
Del (Deletion) allele PCR screening		
CL-WFZ-001-Del-F/CL-WFZ-001-Del-R	CATCCCCAGCTGAAACCCTCTCA T	CAGGTGTAGTGGCATGCTCCTGT

SNP-rs7198799 CT to TT		
CL-LS-002-L-GT-F	GTGTGCTCTTTAAAGACAGATTC TTCCC	
CL-LS-002-ΔTK-R		GCCACGCTACTGCGGGTTTATATAG
CL-LS-002-ΔTK-F	CGGCATAAGGCATGCCATTGTT ATC	
CL-LS-002-R-GT-R		GCAAGTGCAAAGCAGTGCTATCTTTTG
SNP-rs7199991 TG to GG		
CL-LJL-015-L-GT-F	GGTCATCAGATTGCAACCCTGAG AATG	
Puro-GT-F		GCAACAGATGGAAGGCCTCCTGGCG
Puro-GT-R(LJL)	TAAGTCATCGGCTCGGGTACGTA GA	
CL-LJL-015-R-GT-R		CCCAGGAGTTTGAGTCTGCAGTGAG
ZFP90 ^{+/-} mice		
P1/P2	TGGTGGTGTTGCCTTTAGTCTC A	GCCCTGCTCAAGTCGGAATCAAC
P3/P4	GGGGATAGGAAGGCTTGGTGAT G	GCCTCGCCCTGTGTTTTGTCTT
ZFP90 ^{fl/+} ;Villin-cre/+ mice		
EGE-WNN-007-L-GT-F/cKO-3'-DO-R	AGGTGCCTGGTGTTCCCTTAGT TT	GACGCCTAGATTGTGCTACTCTCAGCT
cKO-5'-DO-F/EGE-WNN-007-R-GT-R	CGTGCTAGATCGACTGCTAGAGT GAC	ATGAGGGAGAAGAGGTGGGTAGCTG
EGE-WNN-007-5'loxP-F/EGE-WNN-007-5'loxP-R	ACTCTGCTCTCGTCCCAGATGTT GA	AGAGTGCCTGTCACATCCAGAGAGT
EGE-WNN-007-3'loxP-F/EGE-WNN-007-3'loxP-R	TCAACCGATGTATCATTCCATTGG C	GAGTTAAGATGGGGGTGAAACAGC
PVillin-cre-P1/PVillin-cre-P2	AGCGATGGATTCCGTCTCTGG	AGCTTGCATGATCTCCGGTATTGAA
Primers of Real-time PCR	Sense (5'-3')	Antisense (5'-3')
<i>ZFP90</i>	GAGAGGGCAAACCTTACCAAAGC	CCTGCTCACAATCATAGGGGT
<i>CDH1</i>	AGAACGCATTGCCACATACACTC	CATTCTGATCGGTTACCGTGATC
<i>NFATC2</i>	GAGGGGCTGTCAAAGCTCC	ACAGTTTTCCCCGTGATTCGG
<i>BMP4</i>	CGTAGCCCTAAGCATCACTACA	GCGCCGGCAGTTCTTATTCT
<i>FXRD4</i>	TTGCCAATAAAGACGATCCCTTC	AGAGCCTGGAGTGATGAGTGG
<i>GATA2</i>	ACTGACGGAGAGCATGAAGAT	CCGGCACATAGGAGGGGTA

<i>CASP10</i>	AGAAACCTGCTCTACGAACTGT	GGGAAGCGAGTCTTTCAGAAG
<i>ST8SIA6</i>	ATGAGTTACGAGGTGGAAAGCA	CCGACCACTGCACACTGATTA
<i>SERPING1</i>	CTGGCTGGGGATAGAGCCT	GAGATAACTGTTGTTGCGACCT
<i>PDE4D</i>	ACGGACCGGATAATGGAGGAG	ATTTTCCACGGAAGCATTGTG
<i>GAPDH</i>	GCATTGCCCTCAACGACCAC	CCACCACCCTGTTGCTGTAG
<i>F. nucleatum</i>	CAACCATTACTTTAACTCTACCAT GTTCA	GTTGACTTTACAGAAGGAGATTATGTA AAAATC
16S rRNA	GGTGAATACGTTCCCGG	TACGGCTACCTTGTACGACTT
Primers of ChIP-qPCR	Sense (5'-3')	Antisense (5'-3')
<i>BMP4-1</i>	CGGCAGCATCTTCGATTAGT	AGTCGCACGCAGCAAATA
<i>BMP4-2</i>	AGGCAACCCGAGTTCTTG	CCCAAAGCCCACTCCAC
<i>GATA2-1</i>	ACGTGTCCAAGCTTTCTG	GCACACCCTGTGCATCC
<i>GATA2-2</i>	CCCGCAAAGTGATGTCGAA	GTGGCGGCAGGCAATAG
<i>SERPING1-1</i>	TGGTTGTGTAAGCTGAGAACT	CTGACCGCTTGGTCTTCTTT
<i>SERPING1-2</i>	CCCGACATTTCACTGCTCTAAG	GGAAATTGCTCACCTCCGTTAT
<i>PDE4D-1</i>	CCCAAAGGAAGGGAAGAAGAA	TCCTTCCACCGAGGCTAT
<i>PDE4D-2</i>	ACAGGTCTGACTCCTGACT	CACCGGAACCCTGATCC
<i>rs7198799 region</i>	CCCTTCCCTCTCCCATCA	GTTACATAACCAACACCATGC