

Supplementary Information

Table 1 DNA oligos and Antibodies

<u>Oligo Name</u>	<u>Oligo sequence</u>	<u>Application</u>	<u>Ref</u>
Control ASO	TAGTGCGGACCTACCCACGA	knockdown	
mRmrp ASO1	GATGACGCCCCGCTGCACGC	knockdown	
mRmrp ASO2	AACATGTCCCTCGTATGTAG	knockdown	
mRmrp ASO3	GCGAAAGGATAAGGAACATG	knockdown	
mRmrp ASO4	CTTGCGGGCTAACAGTGAC	knockdown	
mRmrp ASO5	CCCCTAGGCGAAAGGATAAG	knockdown	
hRmrp ASO	CGCTGAGAATGAGCCCCGTG	knockdown	
Universal 16S F	ACTCCTACGGGAGGCAGCAGT	QPCR	Ref #51
Universal 16S R	ATTACCGCGGCTGCTGGC	QPCR	
SFB 16S F	GACGCTGAGGCATGAGAGCAT	QPCR	Ref #51
SFB 16S R	GACGGCACGGATTGTTATTC	QPCR	
Reg#7: IL17F_Prom_ChIP_F	CCTGGGTATGTCAAACAGCAGTAG	QPCR	Ref #8
Reg#7: IL17F_Prom_ChIP_R	GAGTAGAAACCCTGCATTCGTCAG	QPCR	
Reg#2: IL17A_Prom_ChIP_F	GCAGCAGCTTCAGATATGTCC	QPCR	Ref #8
Reg#2: IL17A_Prom_ChIP_R	AGATGGGAAGGGCAGAAGTT	QPCR	
ActB_Prom_ChIP_F	TTTCAAAGGAGGGGAGAGG	QPCR	
ActB_Prom_ChIP_R	TCGAGCCATAAAAGGCAACT	QPCR	
Reg#1 F	TTGCATGCGCCTCCTAACACATAG	QPCR	
Reg#1 R	TTTCTAGGTGGGTTCCCTCACTGGT	QPCR	
Reg#3 F	AGCAAGGAATGTGGATTCAGAGGC	QPCR	
Reg#3 R	ACAAACACGAAGCAGTTTGGGACC	QPCR	
Reg#4 F	TCCAAGGGTGGCTGTTTATC	QPCR	
Reg#4 R	CACTTCCCCGACCTCACTAA	QPCR	
Reg#5 F	TCGCCTCTTGACAAACAGTG	QPCR	
Reg#5 R	CACGGATTTGAGCTTCTCGT	QPCR	
Reg#6 F	GTGAACGCAAGGGGTACAGT	QPCR	
Reg#6 R	CCTTTGACCTTTCCCACAAA	QPCR	
mGAPDH F	AATGTGTCCGTCGTGGATCT	QPCR	
mGAPDH R	CATCGAAGGTGGAAGAGTGG	QPCR	
mIL17a F	TTTAACTCCCTTGCGCAAAA	QPCR	
mIL17a R	CTTCCCTCCGCATTGACAC	QPCR	
mIl17f F	TCCCCTGGAGGATAAACTG	QPCR	
mIl17f R	GGGGTCTCGAGTGATGTTGT	QPCR	
mRmrpQPCRfwd	CCGCAAGTCACTGTTAGCC	QPCR	

mRmrpQPCRrev	CACTGCCTGCGTCACTATGT	QPCR
m7SK snRNA F	CCCTGCTAGAACCTCCAAAC	QPCR
m7SK snRNA R	TGGAGTCTTGAAGCTTGACT	ChIRP-QPCR
<u>Oligo Name</u>	<u>Oligo sequence</u>	<u>Application</u>
m18S rRNA F	CCTGCGGCTTAATTTGACTC	ChIRP-QPCR
m18S rRNA R	ATGCCAGAGTCTCGTTCGTT	ChIRP-QPCR
mU1 snRNA F	TGATCACGAAGGTGGTTTTCC	ChIRP-QPCR
mU1 snRNA R	GCACATCCGGAGTGCAATG	ChIRP-QPCR
mMalat1 F	GATAGCCCAGGAAAGAGTGC	ChIRP-QPCR
mMalat1 R	CCAGCTAGCTTCATCACCAA	ChIRP-QPCR
mRMRP_1_F	GCTCTGAAGGCCTGTTTCC	ChIRP-QPCR
mRMRP_1_R	CCCCTAGGCGAAAGGATAAG	ChIRP-QPCR
sgRNA_Rmrp_Locus	CACGGGGCTCATTCTCAGCG	CRISPR
HDRdonor_Rmrp		CRISPR

GCTGAGCGGGCGTGCAGCGGGGCGTCATC
CGTCAGCTCACATAGTGACGCAGGCAGTG
CGACCTGGCTCGCACCAACCACACGGGG
CTCATTCTCAGCGCTGCTACACTTTTATTT
ATTTATTTTTGTTTGTGTTTGTATTTGGTTTT
TTGACAGGGTTTCTCTGTGTAGCCCTGGC
TGCCTGGCACTCACTTTGTAGACC

<u>Antibody Name</u>	<u>Clone/catalog number</u>	<u>Company</u>	<u>Application</u>
Anti-Mouse CD3e	145-2C11	eBioscience	flow
Anti-Mouse CD4	RM4-5	eBioscience	flow
Anti-Mouse CD8	53-6.7	eBioscience	
Anti-Mouse CD16/32 Fc Block	2.4G2	Tonbo	flow
Anti-Mouse CD19	1D3	Tonbo	flow
Anti-Mouse CD25	PC61.5	eBioscience	flow
Anti-Mouse CD44	1M7	eBioscience	flow
Anti-Mouse TCRb	H57-597	eBioscience	flow
Anti-Mouse gd TCR	eBioGL3	eBioscience	flow
Anti-Mouse RORgt	B2D	eBioscience	flow
Anti-Mouse/Rat Foxp3	FJK-16s	eBioscience	flow
Anti-Mouse B220	RA3-6B2	eBioscience	flow
Anti-Mouse IL-17A	eBio17B7	eBioscience	flow
Anti-Mouse Il-17F	9D3.1C8	BioLegend	flow
Anti-Mouse IL-22	IL22JOP	eBioscience	flow
Anti-Mouse CD196 (CCR6)	140706	BD	flow
Anti-Human IL-17A	eBio64DEC17	eBioscience	
Anti-Human CD4	OKT4	eBioscience	
Anti-Human/Mouse ROR γ t	AFKJS-9	eBioscience	

<u>Antibody Name</u>	<u>Clone/catalog number</u>	<u>Company</u>	<u>Application</u>
Rabbit anti-βTubulin	2146S	Cell Signaling	Immunoblot
Rabbit anti-GST	2625S	Cell Signaling	Immunoblot
Mouse anti-His	sc-8036	Santa Cruz Bio	Immunoblot
Mouse anti-RNA Pol II	2629S	Cell Signaling	ChIP
Goat anti-DDX5	ab10261	Abcam	RIPseq/IP/ChIP/Immunoblot/microscopy
Rabbit anti-DDX5	sc-26045	Santa Cruz Bio	Immunoblot
Rat anti-RORgt	14-6988-82	eBioscience	RIPseq/IP/ChIP/Immunoblot/microscopy
Rabbit anti-GFP	A-11122	Life Technology	RIPseq
Anti-RORgt (APC conjugated)	AFKJS-9	eBioscience	microscopy
Donkey anti-Goat Alexa Fluor488	A-11055	Molecular Probe	microscopy