

**Supplementary information, Table S3 Plasmids and siRNA used in this study**

<b>PLASMID</b>	<b>SPECIES</b>	<b>TAG</b>	<b>VECTOR</b>	<b>IDENTIFIER</b>	<b>SOURCE</b>
$\alpha$ -MHC WT	Human	1XMyC	GV172	GOSE0270372	GeneChem (China)
$\alpha$ -MHC K1897R	Human	1XMyC	GV172	GOSE0270369	GeneChem (China)
$\alpha$ -MHC $\Delta$ TMPIT	Human	1XMyC	GV172	GOSE0324668	GeneChem (China)
$\alpha$ -MHC $\Delta$ Class II domain	Human	1XMyC	GV172	GOSE0324663	GeneChem (China)
$\alpha$ -MHC $\Delta$ SH3	Human	1XMyC	GV172	GOSE0324662	GeneChem (China)
$\alpha$ -MHC $\Delta$ SPEC	Human	1XMyC	GV172	GOSE0324664	GeneChem (China)
$\alpha$ -MHC $\Delta$ mmCoA	Human	1XMyC	GV172	GOSE0324665	GeneChem (China)
$\alpha$ -MHC $\Delta$ MIT-CorA	Human	1XMyC	GV172	GOSE0324666	GeneChem (China)
LDHA	Human	1XMyC	GV172	GOSE0338080	GeneChem (China)
Titin A80-82	Human	6XHis	GV172	GOSE0301069	GeneChem (China)
Titin I1065-1108	Human	6XHis	GV172	GOSE0301072	GeneChem (China)
Titin A84-86	Human	6XHis	GV172	GOSE0301071	GeneChem (China)
Titin A77-78	Human	6XHis	GV172	GOSE0301036	GeneChem (China)
SIRT1	Human	1XFlag	Pcdna3.1		
SIRT2	Human	1XFlag	Pcdna3.1		
SIRT3	Human	1XFlag	Pcdna3.1		A gift from Prof.Chuangui Wang
SIRT4	Human	1XFlag	Pcdna3.1		(China Medical University,
SIRT5	Human	1XFlag	Pcdna3.1		Shenyang, China)
SIRT6	Human	1XFlag	Pcdna3.1		
SIRT7	Human	1XFlag	Pcdna3.1		
GCN5	Human	1XMyC			A gift from Prof.Qunying Lei
P300	Human	1XFlag			(Shanghai Medical College,
CBP	Human	1XFlag			Shanghai, China)
PCAF	Human	1XFlag			A gift from Prof. Weiguo Zhu
					(Shenzhen University, Shenzhen,
					China)
<b>siRNA</b>	<b>SPECIES</b>	<b>TARGET SEQUENCE</b>		<b>SOURCE</b>	
siLDHA 001	Human	GAGGTAGCTTGGAACCTAA		RIBOBIO (China)	
siLDHA 002	Human	GCCACTATGTGGTAGTTAA		RIBOBIO (China)	
siLDHA 003	Human	GACAGAGCCTCAGATTACA		RIBOBIO (China)	