

Additional file 16: Table S5. All primers or oligonucleotides used in this study.

1) Primers used for construction of HA-KHSRP and Flag-KHSRP

hKSRP	Primer	sequences (5'-3')
HA-KHSRP aa 68-712	Forward	ccggaattcggaaatccgcaaggacgcttccg
	Reverse	gctctagatcattgagcctgctgctccctgc
HA-KHSRP	Forward	ccggaattcatgctggactacagcacggaggac
	Reverse	gctctagatcattgagcctgctgctccctgc
Flag- KHSRP	Forward	cggaattcatgctggactacagcacggaggac
	Reverse	ccgctcagtcattgagcctgctgctccctgc

2) Primers used for construction of Flag-SUMO1-KSRP aa 68-712

SUMO1-KHSRP	Primer	sequences (5'-3')
First cycle	Forward	acgcgtcgacggaatccgcaaggacgcttccg
	Reverse	ccgctcagtcattgagcctgctgctccctgc
Second cycle	Forward	cccaagcttctgaccaggaggcaaaccttc
	Reverse	acgcgtcgaccctgtttgtcctgataaactc

3) Primers for point mutation and NLS deletion mutation of KSRP

h KSRP	Primer	sequence (5'-3')
KHSRP K87R	Forward	agaattggaggcgtgctccacga
	Reverse	ggctgcaatctggcggcccctgc
KHSRP K359R	Forward	aggcaagatgacgggacaggcccg
	Reverse	gaactgtatccgcagccagcatca
KHSRP K628R	Forward	aggatcgccagcagccccagcagc
	Reverse	ttgtaatactctccaggccta
KHSRP K244R	Forward	aggccggcctgctcattggcaagg
	Reverse	gcccgcgggatcatgatctcctgc
KHSRP K251R	Forward	agggcggggagaccattaagcagc
	Reverse	gccaatgaccaggccgccttgc
KHSRP K435R	Forward	aggtgtgggctgctcagccgag
	Reverse	gtgagtgggatggagaaggtcatc
KHSRP K473R	Forward	aggtgttcacatccgggttcac
	Reverse	gaagttgggtccccgttgggtggc
KHSRP K494R	Forward	aggatcgaggctctctgccag
	Reverse	ttcctgataagctgctggcgtgg
KHSRP NLS Del	Forward	ctgcttcccaggagactcaatcagttc
	Reverse	ttgcccccaaaacaaatcaggagtgctg
KHSRP S193A	Forward	gccttgacaggagccccagaatctg
	Reverse	cacactgcgctcgggtagccaccgc
KHSRP S193D	Forward	gacttgacaggagccccagaatctg
	Reverse	cacactgcgctcgggtagccaccgc

3) Primers used for constructions of lentiviral KHSRP expression, shRNAs for KHSRP, shRNA for

SENP1

	Primer	Sequence (5'-3')
lentiviral-HA-KSRP	Forward	gctctagagccaccatgtatccttacgacgtccagactatgcaatgctggactacagcacggg
	Reverse	cggaattctcattgagcctgctgctgcctgc
KHSRP -shRNA	Forward	ccggctctgaggataaagcaattcattctcgagaatgaattgctttatcctcagttttg
	Reverse	aattcaaaaactgaggataaagcaattcattctcgagaatgaattgctttatcctcaga
SENP1-shRNA -1	Forward	ccggtagaatactctgcaataccctcgagggtattgcaagagtattctttttg
	Reverse	aattcaaaaaagaatactctgcaataccctcgagggtattgcaagagtattcta
Ubc9-shRNA	Forward	ccggctctacacgattactgccaactcgagttggcagtaaatcgttaggcttttg
	Reverse	aattcaaaaagcctacacgattactgccaactcgagttggcagtaaatcgttaggca

4) Primers for qRT-PCR

miRNAs	Primer	sequence (5'-3')
GAPDH	Forward	atgaggccaccaccctgtt
	Reverse	ctcaaggcctcctgggcta
U6	Forward	cgcttcggcagcacatatac
	Reverse	agggccatgctaattctct
miR-98-5p	RT-primer	gtcgtatccagtcagggtccgaggtattcgactggatacgacaacaat
	Forward	gcctgtgaggtagtagttgta
let-7i-5p	RT-primer	gtcgtatccagtcagggtccgaggtattcgactggatacgacaacagc
	Forward	gcctgtgaggtagtagttg
miR-183-5p	RT-primer	gtcgtatccagtcagggtccgaggtattcgactggatacgacagtgaa
	Forward	gcctgtatggcactgtagaat
miR-182-5p	RT-primer	gtcgtatccagtcagggtccgaggtattcgactggatacgacagtg
	Forward	gcctgttggcaatgtagaactc
pri-let-7a-1	Forward	ttcaccattaccctggat
	Reverse	ccaggccataaacaatgct
pri-let-7a-3	Forward	ttgggtttcctgcagg
	Reverse	aactgagaccagagaga
RT-let-7a	Forward	gtcgtatccagtcagggtccgaggtattcgactggatacgacaactat
RT-U6	Reverse	agggccatgctaattctct
qRT-let-7a	Forward	gcctgtgaggtagtagttg
qRT-Rev primer	Reverse	gtcagggtccgaggt