

Supplementary Table S1 : constructs and primers used in this manuscript

a. Lentiviral shRNAs

Name	Based on	Target	source/reference
pLKO- SPRYD3 shRNA2 puroR	NM_032840.1-710s21c1	CDS	Sigma
pLKO-USP11 shRNA1 puroR	NM_0046512 1800	CDS	Sigma
pLKO-USP11 shRNA5 puroR	Created with GNM151 + GNM152	3'UTR	
pLKO-RAE1 shRNA3 puroR	NM_003610.3-1572s1c1	3'UTR	Sigma
pLKO-PAM shRNA1 puroR	NM_015057.3-14495s21c1	3'UTR	Sigma
pLKO-USP7 shRNA1 puroR	NM_003470 1249	CDS	Sigma/ ¹
pLKO-USP7 shRNA2 puroR	NM_003470 1648	CDS	Sigma/ ¹
pLKO-NuMA shRNA2 puroR	NM_006185.2-5966s21c1	CDS	Sigma
pLKO- ctrl shRNA puroR	SHC002	no mammalian target	Sigma/ ¹
pLKO-ctrl shRNA neoR	SHC002 puroR cassette replaced by neoR	no mammalian target	primers : GNM244/245
pLKO-USP11 shRNA1 neoR	pLKO-USP11 shRNA1 puroR - puroR cassette replaced by neoR	CDS	primers : GNM244/245
pLKO-RAE1 shRNA3 neoR	pLKO-RAE1 shRNA3 puroR - puroR cassette replaced by neoR	3'UTR	primers : GNM244/245

b. Eukaryotic expression plasmids

Name [§]	Description (expression of)	primers	template	destination plasmid
pQHA-RAE1 puroR	HA-tagged RAE1	GNM81 + GNM82	HeLa cDNA	pQHA-puroR ¹
pQFlag-RAE1 puroR	Flag-tagged RAE1	AgeI/BamHI insert from pQHA-RAE1	pQHA-RAE1 (this study)	pQHA-RAE1 (this study)
pQHA-KCTD6 puroR	HA-tagged KCTD6	GNM84 + GNM85	HeLa cDNA	pQHA-puroR ¹
pQFlag-KCTD6 puroR	Flag-tagged KCTD6	AgeI/BamHI insert from pQHA-KCTD6	pQHA-KCTD6 (this study)	pQHA-KCTD6 (this study)
pQFlag-USP11sh1R-hygroR	Flag-USP11 shRNA sh1 resistant	GNM246+GNM247	pQFlag-USP11 puroR	pQFlag-hygroR ²
pQFlag-RAE1-hygroR	Flag-RAE1 shRNA sh3 resistant	AgeI/BamHI insert from pQFlag-RAE1		pQFlag-hygroR ²
pQFlag-BUB3 puroR	Flag-tagged BUB3	GNM280+GNM281	HeLa cDNA	pQFlag-puroR ¹
pQFlag-USP11 ^{WT} puroR	Flag-USP11 ^{WT}			1
pQHA-USP11 ^{WT} puroR	HA-USP11 ^{WT}			1
pQFlag-USP11 ^{WT} hygroR	Flag-USP11 ^{WT}	GNM243 and GNM26	pQFlag-USP11 puroR	pQFlag-hygroR ²
pQ-USP11 ^{WT} puroR	untagged USP11 ^{WT}	GNM13 + GNM26	pQFlag-USP11 ^{WT} puroR	
pQ-USP11 ^{CS} puroR	untagged USP11 ^{CS} (C275S)		pQFlag-USP11 ^{CS} puroR	
pQHis ₆ -Ubiquitin puroR	His ₆ -ubiquitin	NotI/EcoRI digest from pMT107 ³		pQCXIP (Clontech)
pMT107	His ₆ -ubiquitin			3
pGMFlag-SPRYD3	Flag-tagged SPRYD3	GNM86 + GNM87	HeLa cDNA	pGM-Flag ⁴
pCG-GagPol	retroviral packaging plasmid			5
pCG-VsV-G	Vesicular stomatitis Virus G			5
pCMV-Δ8.2	lentiviral packaging plasmid			6

[§] all pQ named plasmids are based on pQCXIP (Clontech) and are retroviral expression plasmids

References

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- 5 Ulm, J.W., M. Perron, J. Sodroski, and C.M. R. 2007. Complex determinants within the Moloney murine leukemia virus capsid modulate susceptibility of the virus to Fv1 and Ref1-mediated restriction. *Virology.* 363:245-255.
- 6 Naldini, L., U. Blomer, F.H. Gage, D. Trono, and I.M. Verma. 1996. Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector. *Proc Natl Acad Sci U S A.* 93:11382-11388.

c. Primer sequences

Primer	Sequence 5'-3'	Description
GNM81	GGCCACCGGTATGAGCCTGTTTGAAC	sense - RAE1 - with AgeI site
GNM82	CCGGCTCGAG CTA CTTCTTATTCCTGGGC	antisense - RAE1 (with stop codon)- BamHI site
GNM84	CCGGACCGGTATGGATAATGGAGACTGGG	sense - KCTD6 - AgeI site
GNM85	GGCCGGATCCTCAGTCGTCTGTCTTCCG	antisense - KCTD6 (with stop codon) - BamHI site
GNM86	GGCCTGATCAATGAGGAGGACGCGG	sense - SPRYD3 - BclI site
GNM87	GGCCGAATTCCTAGCCACTCAAGGGG	antisense - SPRYD3 (with stop codon) - EcoRI site
GNM151	CCGGTCTGAGTTCATGGATGTTAATTCTCGAGAATTAACATCCATGAACTCAGTTTTTTG	sense - USP11 shRNA 5
GNM152	AATTCAAAAAAGTTCATGGATGTTAATTCTCGAGAATTAACATCCATGAACTCAGA	antisense - USP11 shRNA 5
GNM243	GGCCACCGGTATGGCAGTAGCCCCGCGACTG	sense - USP11 (start aa1) - AgeI site
GNM246	CCTGCGGGAGCGCACCCCTGCACGGGATTATAATAATTCATACTACGGCCTGATGCTTTT	sense for mutagenesis -USP11 shRNAsh1 resistant
GNM247	CCAAAAAGCATCAGGCCGTAGTATGAATTATTATAATCCCGTGCAGGGGTGCGCTCCCGC	antisense for mutagenesis -USP11 shRNAsh1 res.
GNM280	GGCCCTCGAG ATGACCGGTTCTAACGAGTTCAAGC	sense - BUB3 - XhoI site
GNM281	GGCCGAATTCCTCAAGTACATGGTGACTTGGGTTTTG	antisense -BUB3 (with stop codon - EcoRI site
GNM13	GGCC GAATTC ATGGCAGTAGCCCCGCG	sense - untagged USP11 - EcoRI site
GNM26	CCGCTCGAGTCAATTAACATCCATGAACTCAGAGC	antisense - USP11 with Stop codon - XhoI site
GNM244	CCGG GGATCC ATGATTGAACAAGATGGATTGCACG	sense neomycin resistance cassette - BamHI site
GNM245	GGCC GGTACC TCAGAAGAACTCGTCAAGAAGGCG	antisense neomycin resistance cassette - stop - KpnI