

Table S4:

Sequences of RNAs used in this study

RNA	Base no. relative to start codon	Sequence (5'-3')	Produced by
<i>ASH1</i> E1	623-701	AAGACUAUGUUAAAAUACGCGAAGAAGUGGCU CAUUUCAAGCCAUUAAGUAUACCCAACUUAAC UAAUAAUCAAAAUAA	<i>in vitro</i> transcription
<i>ASH1</i> E2A	1109-1185	UUGCGAAUAGAGACAUUCUAUCGAACAAUCC AAAUCUAAUGUAAGGAAACCAUCUAAGAACAA AAUCUCAAGCAA	<i>in vitro</i> transcription
<i>ASH1</i> E2B (domain 1)	1263-1320	AUCUUCUCCAUUCUCCUCCACACCGACGA AAAGUGGCAAGAUGAGAUAAGAUA	<i>in vitro</i> transcription
<i>ASH1</i> E3-118	1750-1867	GAGACAGUAGAGAAUUGAUACAUGGAUAACUG AAUCUCUUUCAACUAAUAAGAGACAUUAUCAC GAAACAAUUGUACAUUUCUCUCCUUGUCUGUG CUAAAUAAACUACAAUAAAA	<i>in vitro</i> transcription
<i>ASH1</i> E3-51	1771-1821	AUGGAUAACUGAAUCUCUUUCAACUAAUAAGA GACAUUAUCACGAAACAAU	chemical synthesis (Dharmacon)
<i>EAR1</i>	1572-1621	CGAAGAUGAAAAUGAUCACGAGAGAGAUCCCG AACAAUUUUCAGAAUUUG	chemical synthesis (Dharmacon); 5' biotinylated
<i>WSC2N</i>	430-465	AGUUCAAAAACGUCCACGAAAUUGGACACGAA AACU	chemical synthesis (Dharmacon); 5' biotinylated
HIV-1 TAR (16 bases)		CGAGCCUGGGAGCUCG	chemical synthesis (Dharmacon)
HIV-1 TAR (57 bases)		GGUCUCUCUGGUUAGACCAGAUCUGAGCCUGG GAGCUCUCUGGCUAACUAGGGAACC	<i>in vitro</i> transcription
U1snRNA hairpin II		UUAUCCAUUGCACUCCGGAUGU	chemical synthesis (Dharmacon)
Poly(A) ₂₀		AAAAAAAAAAAAAAAAAAAA	<i>in vitro</i> transcription
Poly(A) ₆₀		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	<i>in vitro</i> transcription
<i>ASH1</i> E3-33-tRNA(Met)*	1780-1812 (underlined sequence)	<u>G</u> GCUACGUAGCUCAGUUGGUUAGAGCAGCGGC <u>CUGAAUCUCUUUCAACUAAUAAGAGACAUUAU</u> <u>CAGGCCGCGGGUCACAGGUUCGAAUCCCGUCG</u> UAGCCACCA	expression and purification from <i>E. coli</i>
<i>ASH1</i> E3-77-tRNA(Met)*	1758-1834	GGCUACGUAGCUCAGUUGGUUAGAGCAGCGGC CGAGAGAAUUGAUACAUGGAUAACUGAAUCUC UUUCAACUAAUAAGAGACAUUAUCACGAAACA AUUGUACAUUUCUCUUGGCCGCGGGUCACAGG UUCGAAUCCCGUCGUAGCCACCA	expression and purification from <i>E. coli</i>
<i>ASH1</i> E3-118-tRNA(Met)*	1750-1867 (underlined sequence)	<u>G</u> GCUACGUAGCUCAGUUGGUUAGAGCAGCGGC <u>C</u> GGAGACAGUAGAGAAUUGAUACAUGGAUAAC <u>U</u> GAAUCUCUUUCAACUAAUAAGAGACAUUAUC <u>ACGAAACAAUUGUACAUUUCUCUCCUUGUCUG</u> <u>UGC</u> UAAAUAACUACAAUAAAAACCGCGGGU CACAGGUUCGAAUCCCGUCGUAGCCACCA	expression and purification from <i>E. coli</i>

* *ASH1* E3 sequences are underlined.