

Table S1 A list of all sequences identified from the 40-nt randomized region of the library after
10 rounds of subtractive SELEX against NSE.

Aptamer	Sequence (5'-3')
Apt-1	TAACTCGTCCCTACCGAGCCTCTCTCTGGTCCTTGCAACT
Apt-2	TCTCAGGGTGGGTGGGTGTATCTCCCTTTGATACTTGGGT
Apt-5	TCACACACGGACCTCTCCTACATTAATTGCGCATTTCGTT
Apt-6	TCTCACCTCGACACTCATATCTCTACTCCACCGATAGTA
Apt-9	CCTTGTCGATTCATAATGTTTCGTGGAACCTCGCTCTCGGGA
Apt-10	CTTCTTCTTGTTAAGGCAGCTACACGGCTACCGGATATGA
Apt-11	ATACTGAAACATATGAGATGCCCGCTCGCTATCTAATCGC
Apt-12	TCTCCAACCCAATCCTGTGTTTCGCGCTGAATCCATCTGT
Apt-14	CTAGATCCCACATGCCTTCAGTGTTTGTTGCCGTAAACTC
Apt-15	TAACTCGTCCCTACCGAGCCTCTCTCTGGTCCTTGTAAC
Apt-16	CTCTGATCTCCTGCTTTGGCCTAGACTGCCCGGGTTCCAC
Apt-18	CTTGCCGGGTCATCCGAGAACAGGAGCCCACGATGCGATC
Apt-19	CTTCGAGCCACACTGTTTGTCTTCTGCTCTAATCATCTA
Apt-21	TTCTACCATCGACCCTGTCCGCGTTCGATACCGCCGGAGA
Apt-22	CAGATCTGTGGATGATCCCTCTTGGTTGTTCCCGACCTCG
Apt-24	CCTCCTCTGTTACCATATCGATCGCATCTCTCGCGCCCTA
Apt-25	TCTCCTCTGGCTATTTACCGTTAACAGCTCACGTTTGTGA
Apt-26	GGGTTTAATTGCTCTCAGGTTATTCGTCTGAGGTAATGCG
Apt-28	ATCACGAATGTCGAGGCTCCTTTCCGCCCTGTCTGCTCGT
Apt-30	CTACATCTAGTCCTGATAATGCTAGTTCATTGGGAATCCT