

Table S1A:

First treatment

Viral Loads

Treatment week	-3	-2	1	2	3	4	5	1	2	3	4	
Week post infection	4	5	7	8	9	10	11	12	13	14	15	
Non-infected	J411	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	
	J412		<60	<60	<60	<60	<60	<60	<60	<60	<60	
	average	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	
Non-treated	J377	4.71E+04	2.11E+05	1.15E+05	8.12E+04	7.08E+04	5.55E+05	6.61E+04	3.68E+04	2.76E+04	6.64E+04	4.01E+03
	J378	1.95E+05	4.22E+04	2.89E+05	2.45E+05	1.51E+05	1.66E+05	7.62E+04	2.60E+04	5.19E+04	1.54E+05	8.01E+03
	J379	3.13E+05	1.43E+05	1.88E+05	7.08E+04	1.78E+04	1.61E+06	*	2.32E+04	8.75E+03	6.19E+04	4.68E+03
	J380	2.40E+04	4.86E+05	1.39E+05	5.01E+04	1.15E+05	1.60E+04	4.02E+04	1.65E+03	4.12E+04	1.90E+05	1.09E+05
	J381	9.91E+04	2.91E+05	2.35E+04	1.07E+05	5.01E+04	1.00E+00	2.54E+05	9.87E+02	2.07E+04	2.87E+04	1.73E+04
	J383	3.14E+04	1.85E+05	1.57E+05	5.76E+04	5.76E+04	9.12E+05	*	1.17E+04	2.32E+04	4.07E+04	3.19E+03
	J389	4.11E+04	1.43E+05	1.77E+05	6.61E+04	8.70E+04	*	5.55E+05	5.82E+04	3.28E+04	1.34E+05	4.03E+04
	J390	2.74E+04	2.11E+05	1.39E+05	5.01E+04	6.61E+04	2.91E+03	1.98E+04	1.31E+04	2.60E+04	6.64E+04	1.87E+04
	average	9.72E+04	2.14E+05	1.53E+05	9.09E+04	7.69E+04	4.66E+05	1.69E+05	2.14E+04	2.90E+04	9.26E+04	2.57E+04
	log ave	6.28E+04	1.78E+05	1.29E+05	7.85E+04	6.61E+04	2.51E+04	9.09E+04	1.16E+04	2.60E+04	7.70E+04	1.27E+04
Naked siRNAs (cocktails)	J431	1.60E+04	7.52E+04	*	3.55E+04	1.07E+05	3.55E+04	4.79E+03	9.81E+03	3.89E+04	1.34E+05	2.18E+05
	J432	2.56E+04	2.11E+05	1.23E+04	4.50E+03	4.08E+04	4.50E+03	2.19E+03	3.11E+03	1.74E+04	1.43E+05	1.27E+04
	J433	1.83E+04	4.86E+05	7.52E+03	3.55E+04	4.37E+04	3.55E+04	2.12E+04	1.31E+04	1.85E+04	3.54E+04	4.33E+03
	J434	5.79E+03	1.63E+05	7.99E+03	2.70E+04	1.45E+04	2.70E+04	3.61E+03	9.32E+02	7.36E+03	7.64E+04	3.73E+04
	J435	1.30E+05	3.71E+04	2.72E+04	7.80E+03	6.35E+03	7.80E+03	1.98E+04	2.08E+03	3.70E+03	3.79E+04	5.04E+02
	average	3.91E+04	1.94E+05	1.37E+04	2.21E+04	4.25E+04	2.21E+04	1.03E+04	5.80E+03	1.72E+04	8.53E+04	5.46E+04
	log ave	2.24E+04	1.36E+05	1.19E+04	1.64E+04	2.81E+04	1.64E+04	6.92E+03	3.78E+03	1.28E+04	7.22E+04	1.18E+04
A-1-stick-cocktailed siRNA conjugates	J472	1.82E+05	1.43E+05	1.00E+00	2.42E+03	3.41E+03	8.45E+03	1.60E+04	1.75E+03	1.00E+00	1.87E+03	4.34E+03
	J473	1.13E+05	1.98E+05	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	2.64E+02
	J474	2.40E+04	1.98E+05	9.03E+03	1.60E+03	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.51E+02
	J475	8.65E+04	2.25E+05	1.35E+03	1.00E+00	1.00E+00	3.87E+03	5.92E+03	1.00E+00	2.34E+03	4.99E+03	5.35E+03
	J481	3.36E+04	1.85E+05	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	2.64E+02	2.14E+02
	J482	1.21E+05	4.22E+04	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.24E+03	1.75E+03	1.42E+04
	J483	1.70E+05	1.43E+05	4.08E+03	3.66E+03	1.00E+00	8.18E+04	4.16E+03	7.36E+03	9.26E+03	4.04E+03	9.36E+03
	J484	4.40E+04	5.82E+04	1.63E+03	2.11E+03	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.17E+03	4.99E+03	8.73E+03
	average	9.69E+04	1.49E+05	2.01E+03	1.22E+03	4.28E+02	1.18E+04	3.26E+03	1.14E+03	1.75E+03	2.24E+03	5.33E+03
	log ave	7.75E+04	1.30E+05	5.48E+01	4.83E+01	2.76E+00	3.58E+01	2.81E+01	7.74E+00	4.87E+01	3.11E+02	1.97E+03

*Sample did not have enough plasma for QRTPCR

Table S1B:

Re-treatment

Viral Loads

Non-treated

Treatment week	11	12.5	13.5	14	14.5	15	16	17	18	19
Week post infection	22	23.5	24.5	25	25.5	26	27	28	29	30
J377	7.28E+03			Dead						
J378	3.99E+03			3.02E+03	1.67E+03	1.82E+03	9.89E+01	1.87E+02	4.53E+02	3.95E+02
J379	1.23E+04			9.12E+03	4.63E+02	6.36E+01	4.29E+02	1.63E+02	3.69E+02	1.00E+00
J380	7.64E+02			5.97E+02	1.09E+03	6.90E+02	1.86E+03	2.02E+03	4.88E+03	2.65E+03
J381	1.29E+03			1.00E+03	1.35E+03	9.30E+02	1.00E+00	1.00E+00	1.00E+00	1.00E+00
J383	5.25E+02			4.13E+02	6.26E+01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
J389										
J390										

A-1-stick-cocktailed siRNA conjugates

J472	8.88E+02			1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
J473	1.39E+03			1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
J474	7.09E+02			not used						
J475	3.43E+03			1.00E+00	1.00E+00	1.00E+00	1.15E+02	1.00E+00	1.00E+00	1.00E+00
J481	1.75E+03			1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
J482	5.66E+02			not used						
J483	1.00E+00			not used						
J484	3.60E+02			not used						

Table S1C:

Viral Loads – First Treatment

Comparison			p-value
Uninfected Control	vs	Naked cocktailed DsiRNA	P = 0.0107
Uninfected Control	vs	Non-Treated	P = 0.0010
Uninfected Control	vs	Aptamer-stick-cocktailed DsiRNA conjugates	P = 0.0001
Naked cocktailed DsiRNA	vs	Non-Treated	P = 0.0102
Naked cocktailed DsiRNA	vs	Aptamer-stick-cocktailed DsiRNA conjugates	P = 0.1059
Non-Treated	vs	Aptamer-stick-cocktailed DsiRNA conjugates	P = 0.0030

Overall p-value = 0.0005

Table S1D:

Viral Loads –Re-treatment

Comparison			p-value
Non-Treated	vs	Aptamer-stick-cocktailed DsiRNA conjugates	P = 0.0143

Overall p-value = 0.0143