

Supplemental data

Observed percentages for editing of adenosine pairs within the same substrate molecule, theoretically expected values (based on the editing extents at the individual positions) and the value for correlation (value of 1 corresponds to perfect correlation). All values have a statistical significance of $p < 0.01$.

Table S1 A: ADAR1-L activity on 5' [CG]₆ containing dsRNA substrate.

Adenosine position	5' CG			15' CG			30' CG		
	Observed [%]	Expected [%]	Correlation	Observed [%]	Expected [%]	Correlation	Observed [%]	Expected [%]	Correlation
3, 5	1.40	0.00	0.018	14.30	4.30	0.346	14.60	2.70	0.089
3, 6	1.40	0.10	0.056	6.20	4.30	0.153	6.40	2.10	0.144
3, 7	6.30	3.40	0.198	6.20	4.90	0.111	8.30	3.70	0.051
3, 8	8.30	3.60	0.330	10.10	7.20	0.206	10.50	4.30	0.038
4, 11	4.90	0.80	0.021	0.00	0.00	0.000	6.10	2.10	0.041
4, 12	4.20	0.60	0.026	0.00	0.00	0.000	8.10	1.20	0.484
4, 8	2.80	1.50	0.030	2.50	2.40	0.035	9.0	1.20	0.129
5, 10	1.40	0.00	0.131	5.20	3.80	0.116	0.00	0.00	0.031
5, 11	5.60	1.30	0.421	6.00	0.50	0.201	8.30	3.50	0.381
5, 6	12.50	1.90	0.890	18.00	10.10	0.766	18.60	10.50	0.732
5, 7	11.10	4.40	0.423	21.30	11.50	0.473	22.90	18.20	0.229
5, 8	11.10	4.60	0.408	25.70	16.90	0.437	14.60	8.20	0.364
6, 10	1.40	0.50	0.105	5.20	3.80	0.022	0.00	0.00	0.071
6, 11	5.60	1.60	0.361	2.30	2.10	0.006	6.30	4.70	0.475
6, 12	6.30	0.95	0.608	1.70	0.80	0.011	6.30	1.50	0.428
6, 16	1.40	2.30	0.163	1.70	0.70	0.045	2.00	0.90	0.271
6, 7	11.10	5.40	0.331	18.40	6.90	0.320	20.80	14.10	0.151
6, 8	11.10	5.60	0.316	15.90	10.10	0.437	16.70	16.80	0.301
7, 8	25.70	13.00	0.848	26.80	11.60	0.804	52.10	32.80	0.788
7, 10	3.50	0.10	0.209	3.70	3.80	0.190	0.00	0.00	0.035
7, 11	10.40	3.70	0.460	5.40	2.10	0.225	14.60	4.70	0.044
7, 12	3.50	3.80	0.169	1.70	0.80	0.023	4.20	2.60	0.123
8, 10	2.10	0.20	0.129	7.50	3.80	0.271	0.00	0.00	0.026
8, 11	7.60	3.90	0.258	9.30	3.50	0.225	10.40	5.60	0.054
8, 12	4.20	1.60	0.160	2.90	1.20	0.032	6.30	3.10	0.031

Table S1 B: ADAR1-L activity on 5' [CCGG]₃ containing dsRNA substrate.

<i>Adenosine position</i>	<i>5' CCGG</i>			<i>15' CCGG</i>			<i>30' CCGG</i>		
	Observed [%]	Expected [%]	Correlation	Observed [%]	Expected [%]	Correlation	Observed [%]	Expected [%]	Correlation
1, 2	2.3	0.1	0.812	0.0	0.0	0.000	0.0	0.0	0.000
1, 3	1.1	0.0	0.392	0.0	0.0	0.000	0.0	0.0	0.000
1, 4	1.1	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000
1, 7	1.1	0.0	0.260	0.0	0.0	0.000	0.0	0.0	0.000
1, 8	1.1	0.0	0.159	0.0	0.0	0.000	0.0	0.0	0.000
2, 3	1.1	0.1	0.489	4.9	1.5	0.714	0.0	0.0	0.000
2, 4	0.0	0.0	0.000	1.0	0.1	0.009	0.0	0.0	0.000
2, 5	1.1	0.1	0.001	1.4	0.0	0.012	1.0	0.0	0.268
2, 7	1.1	0.1	0.333	1.4	0.3	0.003	1.0	0.0	0.184
2, 8	1.1	0.2	0.217	1.4	1.1	0.015	1.7	0.1	0.198
3, 4	1.1	0.1	0.703	2.0	0.1	0.400	1.0	0.0	0.396
3, 5	0.0	0.0	0.010	4.4	0.5	0.815	1.0	0.4	0.208
3, 6	0.0	0.0	0.023	5.9	1.0	0.405	0.0	0.0	0.059
3, 8	0.0	0.0	0.048	2.0	0.2	0.218	1.7	0.1	0.127
5, 6	0.0	0.0	0.016	7.9	2.4	0.606	4.2	0.6	0.715
5, 8	0.0	0.0	0.034	6.9	2.1	0.564	2.5	1.6	0.098
6, 10	1.1	0.0	0.489	0.0	0.0	0.062	1.8	0.5	0.334
6, 8	0.0	0.0	0.048	4.4	0.9	0.405	9.3	3.6	0.198
6, 9	1.1	0.0	0.392	0.0	0.0	0.060	0.0	0.0	0.000
7, 10	1.1	0.2	0.331	0.0	0.0	0.000	0.0	0.0	0.000
7, 8	1.1	0.1	0.121	5.7	1.1	0.132	8.5	2.8	0.711
9, 12	1.1	0.2	0.392	0.0	0.0	0.000	0.0	0.0	0.000
9, 13	1.1	0.1	0.388	0.0	0.0	0.000	0.0	0.0	0.000
11, 12	1.1	0.1	0.489	1.0	0.4	0.479	1.7	0.1	0.898
12, 13	1.1	0.1	0.412	0.0	0.0	0.000	0.8	0.4	0.338