Electronic Supplementary Material (ESI) for Organic & Biomolecular Chemistry.

Table 1S. Annealing temperatures (Ta, at 1°C/min), melting temperatures (Tm, at 0.5°C/min) and calculated values of hysteresis (Tm-Ta) for parallel duplexes and parallel triplexes of **Rp9** at pH 7.2.

9-MERS	**pH 7.2, templates 2'-OMe**								
	annealing temp. Ta (°C)								
components	H9_M	H9LT1	H9LT2	H9LT3	H9LT4	H9LC1	H9LC2	H9LC3	H9LC4
Rp9	35	35	35	40	46	43	53	52	55
Rp9+WC9_M	52	52	52	54	57	54/56[a]	58/61[a]	59/61[a]	61/64[a]
Rp9+WC9	50	50	50	50	54	52	57	57	60
	melting temp. Tm (°C)								
Rp9	39	38	38	43	50	47	57	55	62
Rp9+WC9_M	57	57	58	58	61	58	63	64	67
Rp9+WC9	54	51	53	53	57	55	59	61	65
	hysteresis (Tm-Ta) (°C)								
Rp9	4	3	3	3	4	4	4	3	7
Rp9+WC9_M	5	5	6	4	4	4/2[a]	5/2[a]	5/3[a]	6/2[a]
Rp9+WC9	4	1	3	3	3	3	2	4	5

[a] Annealing was performed at 0.5°C/min.

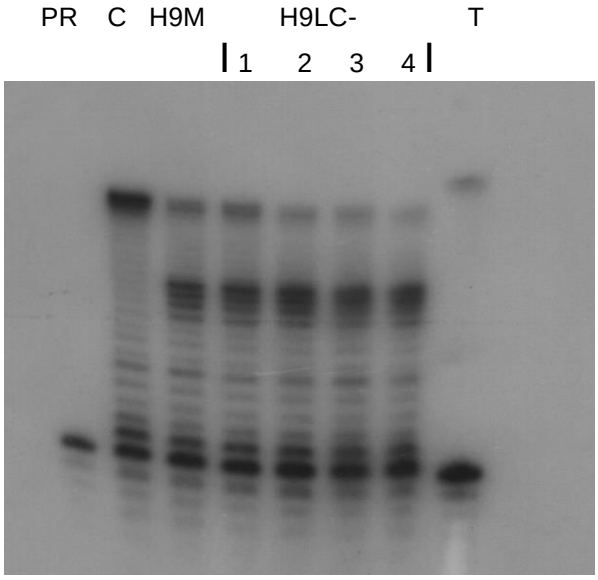

Figure 1S. Autoradiogram of PAGE separated products of reverse transcription performed with AMV RT on the **RNAT1** template. In the consecutive experiments the following components were added: Lane PR: **PR**, no enzyme; Lane C: **PR**, positive control, no inhibitors added; Line H9M: **PR** + **R$_P$9** + **H9_M**; Lines H9Cl-1÷4: **PR** + **R$_P$9** + **H9LC1÷4**, at 1:1:1 ratio. Lane T:, the labeled **RNAT1** template as a marker, no **H9LC1÷4** added.