

Additional file 2

for the article “Non-coding RNA derived from a conservative subtelomeric tandem repeat in chicken and Japanese quail somatic cells”, Molecular Cytogenetics, Irina Trofimova, Darya Popova, Elena Vasilevskaya, Alla Krasikova*, Saint-Petersburg State University, alla.krasikova@gmail.com

Table S1. Results of fluorescent *in situ* hybridization with PO41pos and PO41neg probes before or after treatment of MDCC-MSB1 interphase cells with different RNases.

Probe	Without RNases treatment	RNase A	RNase III	RNase H	RNase H*
PO41pos	One or two bright foci in the nucleus or signals dispersed in interchromatin space	No signals in the nucleus	One weak focus in the nucleus. No dispersed signals in the nucleus	One or multiple foci in the nucleus. No dispersed signals in the nucleus	No signals in the nucleus
PO41neg	One or two bright foci in the nucleus or signals dispersed in interchromatin space	No signals in the nucleus	One to three small compact foci. No dispersed signals in the nucleus	One or two bright foci in the nucleus. No dispersed signals in the nucleus	No signals in the nucleus

* In case RNase H treatment performed after RNA-FISH.

Table S2. Results of fluorescent *in situ* hybridization with PO41pos and PO41neg probes after treatment of dividing MDCC-MSB1 cells with different RNases.

PO41pos probe, C-rich transcripts				
RNase	Prophase	Metaphase	Anaphase	Telophase
RiboShredder RNase blend	Without signals	Without signals	Without signals	Without signals
RNase A	Without signals	Without signals	Without signals	Without signals
RNase H*	Without signals	Without signals	Without signals	Without signals
RNase H	Without signals or with week signals	Predominantly without signals, rarely with one week signal	Without signals	Without signals
RNase III	Two signals	Predominantly without signals, rarely with one week signal	Without signals	Without signals
PO41neg probe, G-rich transcripts				
RNase	Prophase	Metaphase	Anaphase	Telophase
RiboShredder RNase blend	Without signals	Without signals	Without signals	Without signals
RNase A	Without signals	Without signals	Without signals	Without signals
RNase H*	Without signals	Without signals	Without signals	Without signals
RNase H	Without signals	Predominantly without signals, rarely with one week signal	Without signals	Without signals
RNase III	Without signals	Predominantly without signals, rarely with one signal	Without signals	Without signals

* In case RNase H treatment performed after RNA-FISH.

Table S3. Results of fluorescent *in situ* hybridization with PO41pos and PO41neg probes on cryosections of chicken somatic tissues.

Tissue	PO41pos probe			PO41neg probe		
	RNA FISH	DNA FISH	RNase A + RNA FISH	RNA FISH	DNA FISH	RNase A + RNA FISH
Muscles	One to three foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	No signals in the nuclei	One to three foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	No signals in the nuclei
Oviduct	One or two foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	No signals in the nuclei	One or two foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	No signals in the nuclei
Cerebellum	One or two foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	No signals in the nuclei	One or two foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	RNase A-stable foci, especially in large nuclei of Purkinje cells
Telencephalon	One foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	No signals in the nuclei	One foci in nuclei of all cell layers	Multiple foci in nuclei of all cell layers	RNase A-stable foci in nuclei of all cell layers
Small intestine	One or two foci in nuclei of mucous membrane	Multiple foci in nuclei of all cell layers	No signals in the nuclei	No signals in the nuclei. Cytoplasmic granules in mucous membrane	Multiple foci in nuclei of all cell layers	Cytoplasmic granules in mucous membrane
Large intestine	One foci in nuclei of mucous membrane	Multiple foci in nuclei of all cell layers	No signals in the nuclei	No signals in the nuclei. Cytoplasmic granules in mucous membrane	Multiple foci in nuclei of all cell layers	Cytoplasmic granules in mucous membrane