RNA G-quadruplex within the 5'-UTR of FEN1 regulates mRNA stability under oxidative stress

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Supplemental Information

The following file contains supplementary material for the paper "RNA G-quadruplex within the 5'-UTR of FEN1 regulates mRNA stability under oxidative stress".

This file is composed of:

- Supplementary tables (2 tables)

Table S1. The PQSs of FEN1 5'UTR regions.

Name	location	Sequence
r-PQS1	+55~+108	C**GGG**UGUAGA**GGG**AGCAG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**UG GAGU**GGGG**AC
r-PQS2	+55~+86	C**GGG**UGUAGA**GGG**AGCA**GGGG**CCUGC**GGGG**AC
r-PQS3	+64~+108	A**GGG**AGCAG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**UGGAGU**GGGG**A C
r-PQS4	+71~+108	AG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**UGGAGU**GGGG**AC
r-PQS5	+55~+97	C**GGG**UGUAGA**GGG**AGCAG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**U
r-PQS6	+64~+97	A**GGG**AGCAG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**U
rG4m1		AG**AAA**CCUGC**GGG**GACCUGGUGU**GGG**UGGAGU**GGGG**AC
rG4m2		AG**GGG**CCUGC**AAA**GACCUGGUGU**GGG**UGGAGU**GGGG**AC
rG4m3		AG**GGG**CCUGC**GGG**GACCUGGUGU**AAA**UGGAGU**GGGG**AC
rG4m4		AG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**UGGAGU**AAAA**AC
^{oxo}G20		AG**GGG**CCUGC**GGG**GACCUGGUGU**GGG**UGGAGU**G^{oxo}GGG**AC

Table S2: The primer sequences.

Name	Sequence
qPCR-FEN1-F	5'- ATCCCTTATCTTGATGCACCC -3'
qPCR-FEN1-R	5'- AGTCAGGTGTCGCATTAGC -3'
qPCR-β-actin-F	5'- ACATCCGCAAAGACCTGTAC -3'
qPCR-β-actin-R	5'- TGATCTTCATTGTGCTGGGTG -3'
Sh-hnRNPA1-F	5'- GATCCGGGATGGCTATAATGGATTTGTTCAAGAGACAAAT CCATTATAGCCATCCCTTTTTTGGAAA -3'
Sh-hnRNPA1-R	5'- AGCTTTTCCAAAAAAGGGATGGCTATAATGGATTTGTCTCT TGAACAAATCCATTATAGCCATCCCG -3'
Sh-NC-F	5′- GATCCGCACAAGCTGGAGTACAACTTCAAGAGAGTTGTAC TCCAGCTTGTGCTTTTTTGGAAA -3′
Sh-NC-R	5′- AGCTTTTCCAAAAAAGCACAAGCTGGAGTACAACTCTCTT G AAGTTGTACTCCAGCTTGTGCG -3′