Title	DNAase Treatment		
Protocol Number	MOLBIO20002	Written by	Duha A.
Adapted from	MO Lab and promega	Version	1.1
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Reagents:

- RQ1 RNase-Free DNase (Cat.# M6101)
- RQ1 RNase-Free DNase 10X Reaction Buffer
- RQ1 DNase Stop Solution
- RNAase free water

Protocol:

1. Calculate the amount of µLs of RNA needed to achieve a total of 5µg RNA to be cleaned
2. Based on µL of RNA, digestion reaction should follow:

Reagent	**Volume** (Final volume, F_v = 10)	**Volume** (Final volume, F_v = 20)
RNA in water or TE buffer	1-8 µL	9-13 µL
RQ1 RNase-Free DNase 10X Reaction Buffer	1µL	2µL
RQ1 RNase-Free DNase	1 unit per µg of RNA	1 unit per µg of RNA
Nuclease-free water	To a final volume of 10 µL	To a final volume of 20 µL

Note: Use 1 unit of RQ1 RNase-Free DNase per microgram of RNA. For smaller amounts of RNA, use 1 unit of RQ1 RNase-Free DNase per reaction.
Note: reaction can be scaled up if the amount of RNA exceeds 8µl

3. Incubate at 37°C for 30 mints
4. Add 1µl (for every 10µl in the F_v) of RQ1 DNase Stop Solution to terminate the reaction.
5. Incubate at 65°C for 10 minutes to inactivate the DNase.
6. Proceed to clean up the RNA.

Note: check promega's protocol for sources of contamination that could affect RT-PCR