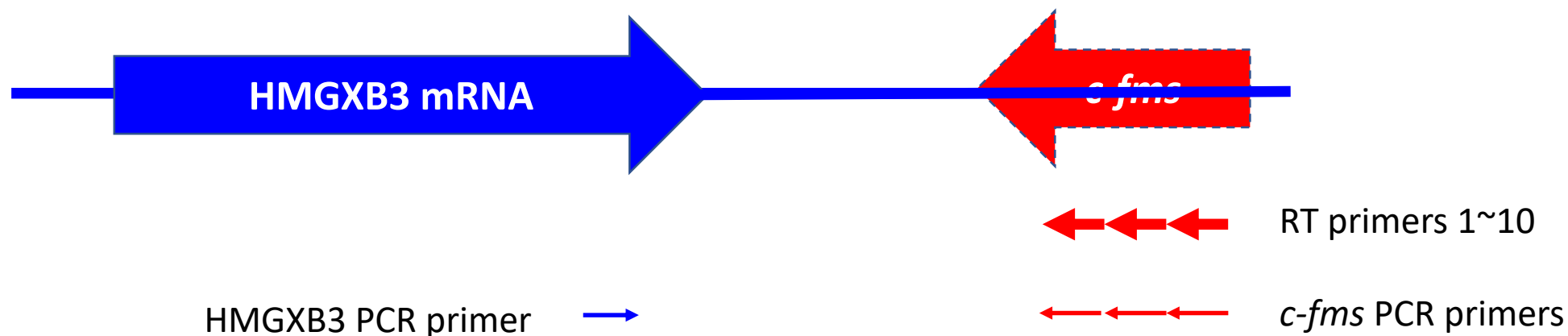
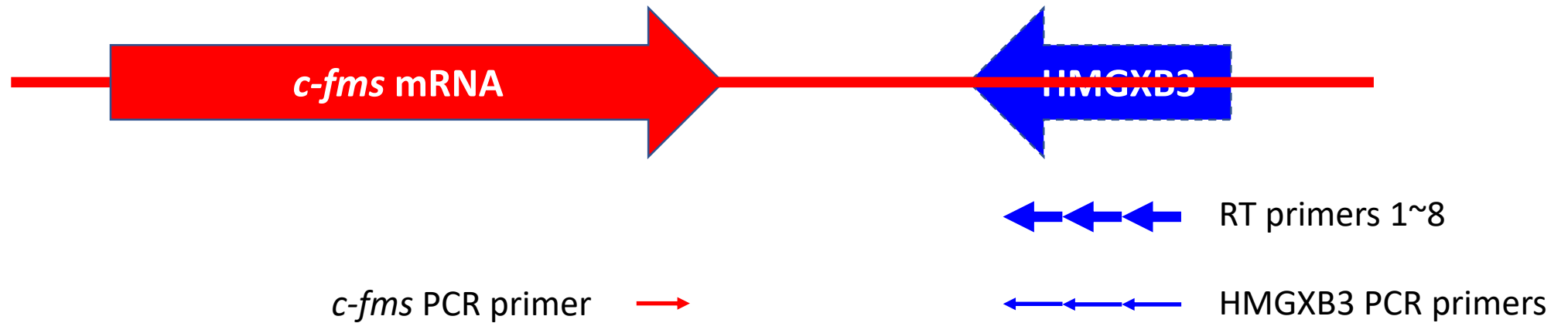


Mapping HMGXB3 mRNA 3'end extension



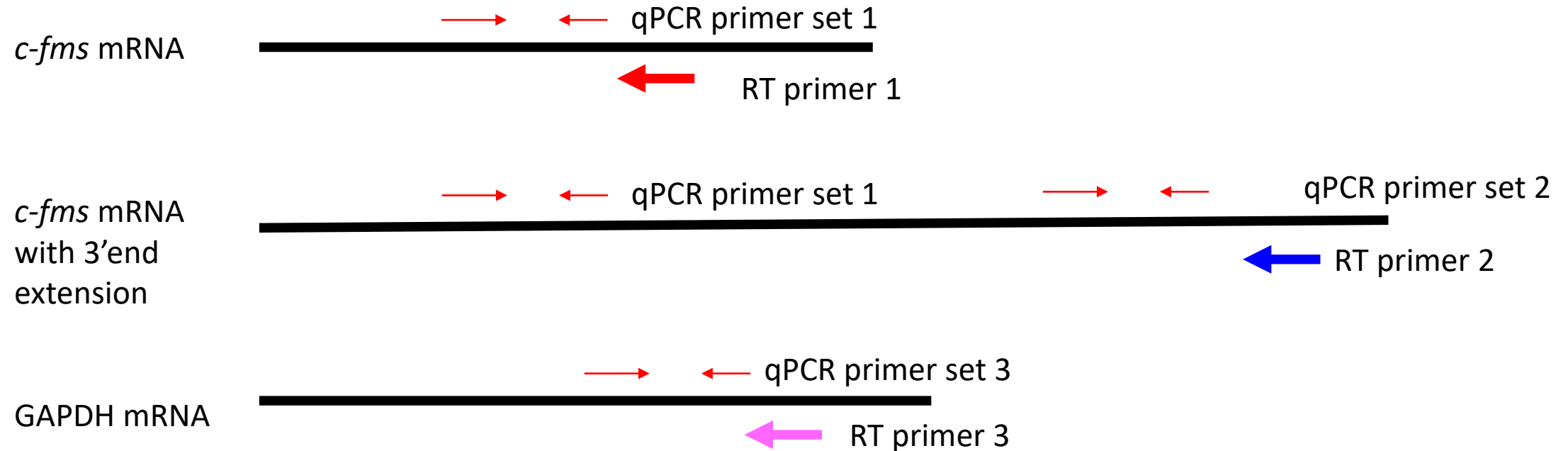
(A) Poly A⁺ mRNA was reverse transcribed with 10 different RT primers from *c-fms* mRNA 3' region. RT transcript was PCR amplified for mapping. Forward PCR primer from HMGXB3 mRNA and reverse PCR primers from *c-fms* mRNA were used for PCR amplification. RT primers and PCR primers are in Supplemental_Table_S1.

Mapping *c-fms* mRNA 3'end extension



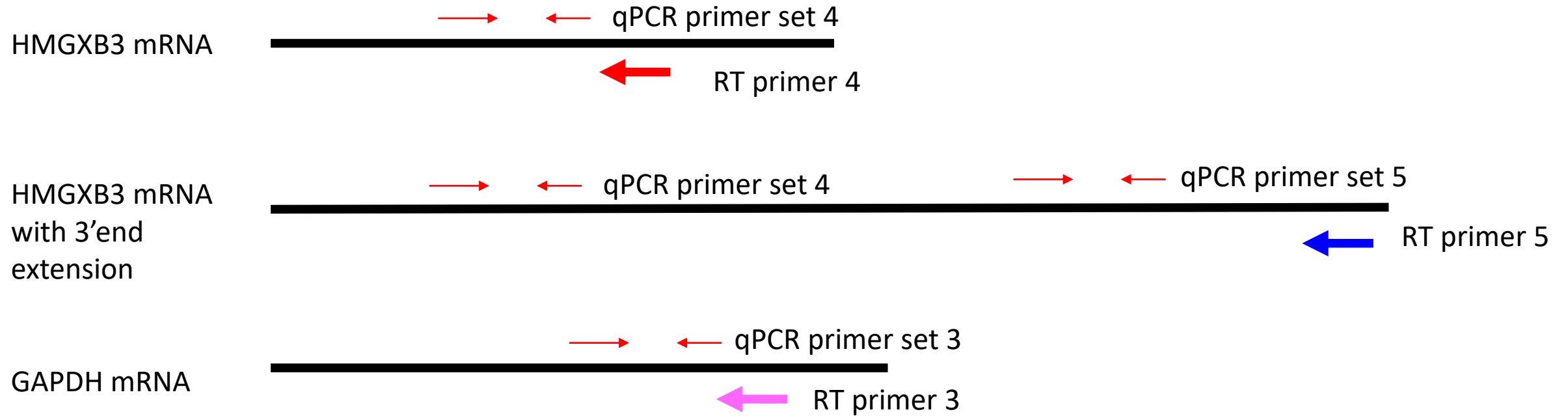
(B) Poly A⁺ mRNA was reverse transcribed with 8 different RT primers from HMGXB3 mRNA 3' region. RT transcript was PCR amplified for mapping. Forward PCR primer from *c-fms* mRNA and reverse PCR primers from HMGXB3 mRNA were used for PCR amplification. RT primers and PCR primers are in Supplemental_Table_S1.

Quantification of *c-fms* mRNA with 3'end extension

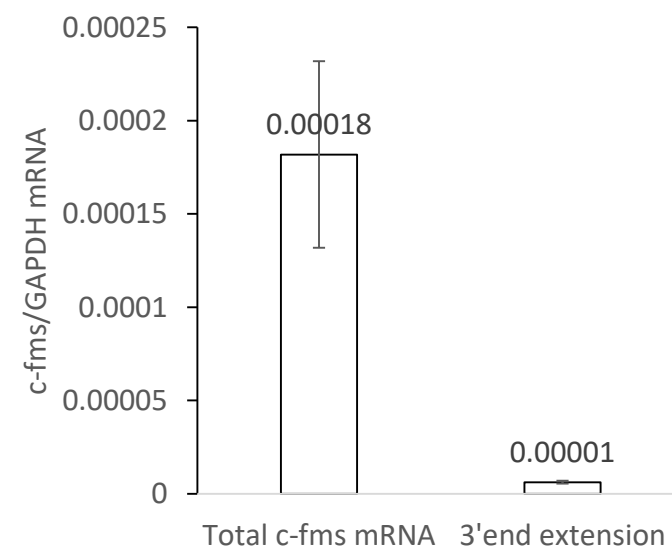
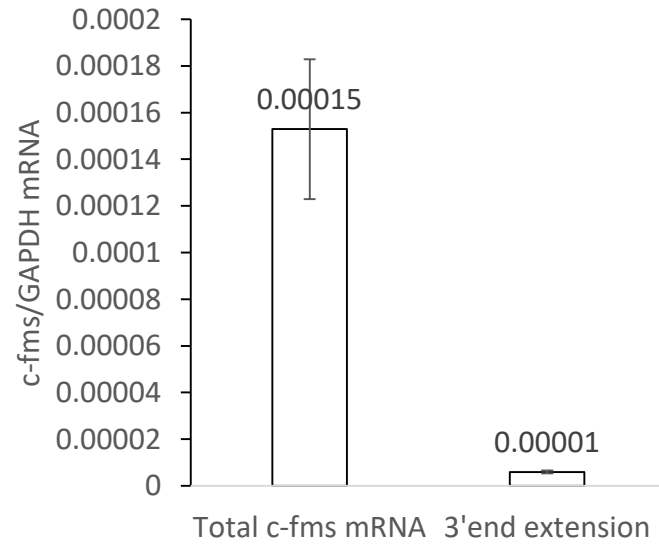
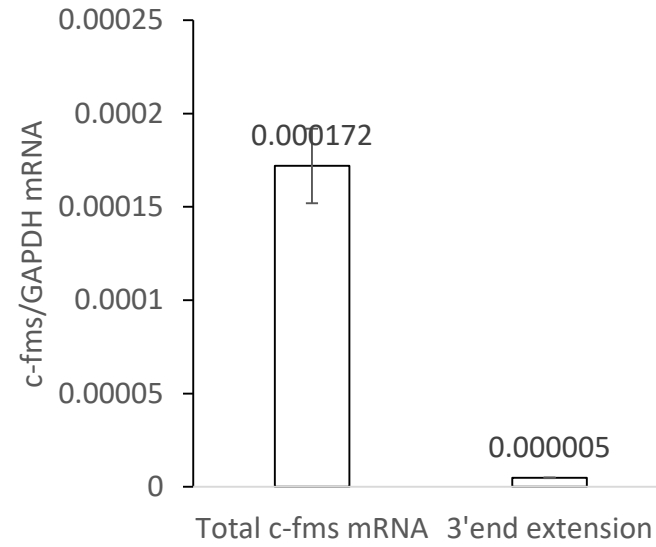
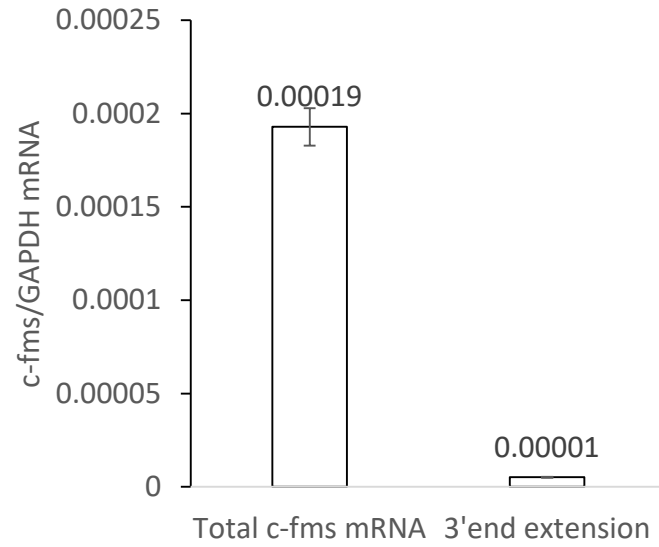


(C) Three RT primers (RT primer 1 from *c-fms* mRNA coding region, RT primer 2 from *c-fms* mRNA 3'end extension, and RT primer 3 from GAPDH mRNA) and total RNA were added in a tube for reverse transcription. RT transcript was PCR amplified; i.e. qPCR primer set 1 amplifies *c-fms* total mRNA, qPCR primer set 2 amplifies *c-fms* mRNA with 3'end extension. qPCR primer set 3 amplifies GAPDH mRNA which serves internal loading control. RT primers and PCR primers are in Supplemental_Table_S1.

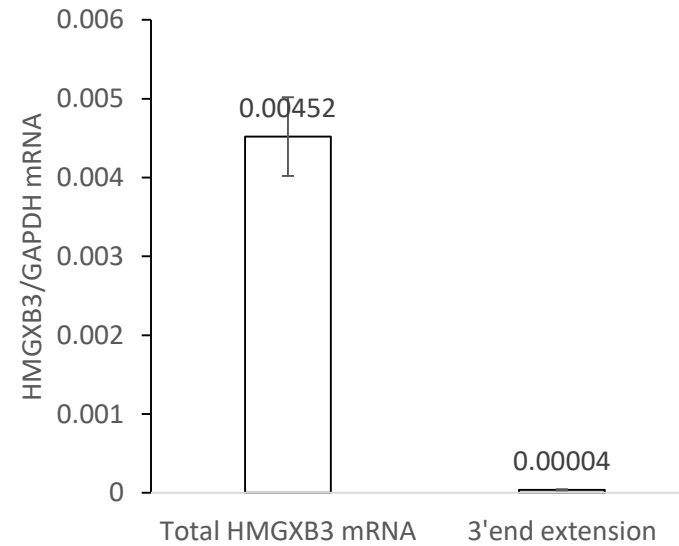
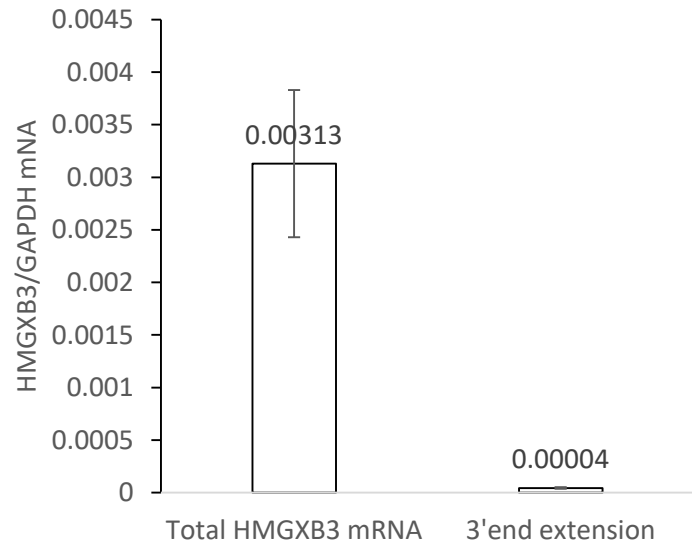
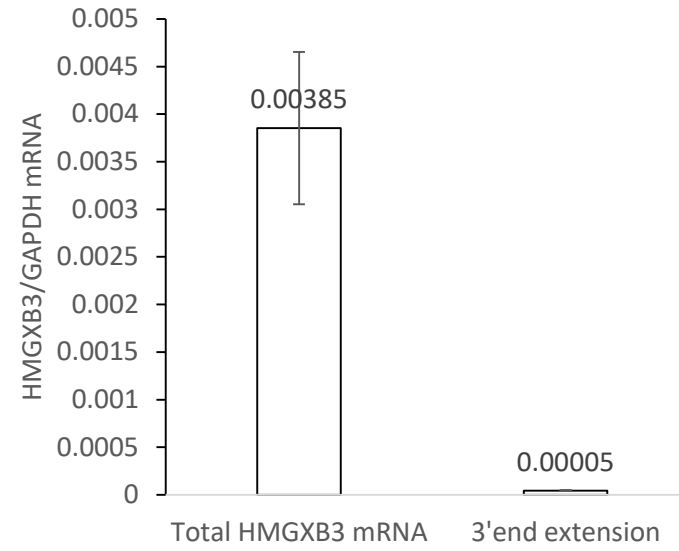
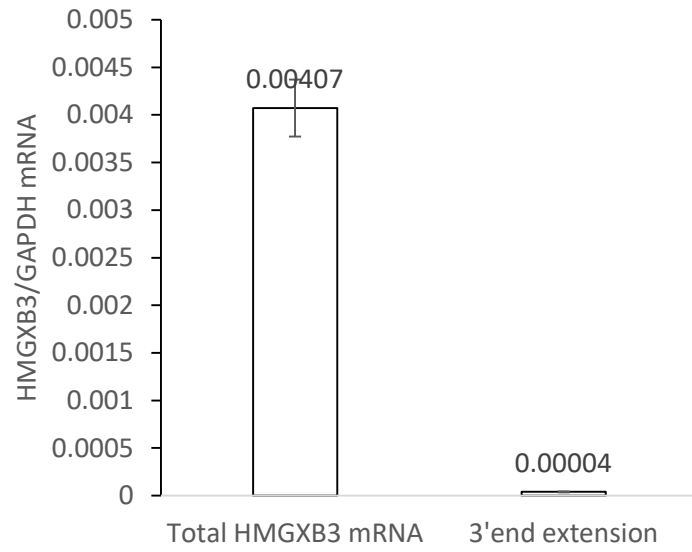
Quantification of HMGXB3 mRNA with 3'end extension



(D) Three RT primers (RT primer 4 from *HMGXB3* mRNA coding region, RT primer 5 from *HMGXB3* mRNA 3'end extension, and RT primer 3 from GAPDH mRNA) and total RNA were added in a tube for reverse transcription. RT transcript was PCR amplified; *i.e.* qPCR primer set 4 amplifies *HMGXB3* total mRNA, qPCR primer set 5 amplifies *HMGXB3* mRNA with 3'end extension. qPCR primer set 3 amplifies GAPDH mRNA which serves internal loading control. RT primers and PCR primers are in Supplemental_Table_S1.



(E) qRT-PCR indicates that *c-fms* mRNA with 3' end extension is 4.1% of total *c-fms* mRNA. Four independent experiments were performed, and the average and standard deviation is presented.



(F) qRT-PCR indicates that *HMGXB3* mRNA with 3'end extension is 1.1% of total *HMGXB3* mRNA. Four independent experiments were performed, and the average and standard deviation is presented.