



**Supplemental Figure 7 The correlation between longevity and the most stable long-lived mRNAs (LLRs).**

The heat map represents the results of RT-PCR amplification of seven LLRs fragments from seeds of Chinese Spring seeds and eighteen other varieties subjected to two aging gradients (NAT for 3 years and CDT for 25 days). The gene amplification data were converted into a heat map, where successful amplification in at least two out of three replicate experiments is shown in dark blue, and unsuccessful amplification is shown in light blue.  $\Delta GP\%$  represents the reduction rate of germination percentage after CDT treatment for 12 days compared to non-aged seeds and indicates seed longevity (see Figure 1a).