**Supplementary Materials**

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**Supplementary Table S1.** Mean yield-associated traits of spring wheat M5 M/1 (144/1) and M/2 (153/5) mutant lines originating from 200 Gy treatment of the parent (WT) cv. Erythrospermum-35’. Grain number and weight per main spike, grain weight per plant are the mean of five replicates of randomly selected spikes/plants. Asterisks indicate significance at \*P, 0.05, \*\*P, 0.01 and \*\*\*P, 0.001

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| Genotypes | Grain number per main spike(GNS) | Grain weight per main spike GWS (g) | Grain weight per plant GWP (g)  | Thousand grain weight TGW (g)  |
| cv. Eritrospermum-35 | 30.33±2.08 | 1.60±0.19 | 2.13±0.39  | 34.13±0.08 |
| M/1 (144/1) mutant line  | 44.67±3.22\*\* | 2.25±0.15\* | 4.31±1.23\* | 48.48±8.36\* |
| M/2 (153/5) mutant line | 58.67±9.02\*\* | 2.87±0.38\*\* | 4.43±0.87\* | 40.54±3.60\* |

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