

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Differentially expressed genes in irradiated *Stenostomum brevipharyngium*

File Name: Supplementary Data 2

Description: Comparison of irradiation-sensitive genes in *Stenostomum*

File Name: Supplementary Data 3

Description: IDs of genes used for RNA in situ hybridization

File Name: Supplementary Data 4

Description: Manually selected markers for single nuclei clusters

File Name: Supplementary Data 5

Description: Manually selected markers for subclusters of cluster 7 (muscles and neurons I)

File Name: Supplementary Data 6

Description: List of *Stenostomum* genes supporting grouping of cluster 4 and planarian neoblast in SAMap analysis

File Name: Supplementary Data 7

Description: Changes in the number of individuals and statistical analysis of the irradiation survival curves

File Name: Supplementary Data 8

Description: IDs of genes involved in cell division, ribosomal biogenesis, and germline multipotency program used in this study

File Name: Supplementary Data 9

Description: Buffers used for nuclear extraction

File Name: Supplementary Data 10

Description: Changes in the number of individuals and statistical analysis of the RNAi survival curves

File Name: Supplementary Data 11

Description: Statistical analysis of the regeneration success rate in RNAi experiments