

Description of Additional Supplementary Files

File name: Supplementary Data 1.

Description: The lists of negative and positive selection genes of current screen. The GO and pathway terms enriched in negative selection genes of current screening.

File name: Supplementary Data 2.

Description: The raw data of five screening studies.

File name: Supplementary Data 3.

Description: The normalized results of five screens.

File name: Supplementary Data 4.

Description: The lists of “ribosome”, “core TFs”, “low expression”, “non-essential”, “Top 3 1000” and “Top 100” genes.

File name: Supplementary Data 5.

Description: The lists of “Differentiation”, “Low in mESC”, “High in mESC”, “Common(overlapped)” and “Context-specific” genes.

File name: Supplementary Data 6.

Description: The list of iSRGS genes and pathway terms enriched in iSRGS.

File name: Supplementary Data 7.

Description: ChIP-seq data of transcriptional regulators and histone markers.

File name: Supplementary Data 8.

Description: HDBS of nine sub-classes. Supplementary Data 9. Constituents of the functional modules.

File name: Supplementary Data 10.

Description: GO terms enriched in module genes.