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Supplementary Data

Cui et al.: Global miRNA dosage control of embryonic germ layer specification

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44 This file contains Supplementary Figure 1 and Supplementary Tables 1-9.

45

46 Supplementary Figure 1:

47 The original source images of Western blot, Microprocessor assay.

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49 Supplementary Table 1:

50 Global miRNA expression and P-value calculated by two-sided Student's t-test in WT
51 mESCs and Δ SL1 mESCs, corresponding to Fig. 2c and Extended Data Fig. 4d.

52

53 Supplementary Table 2:

54 Genes with expressional changes and P-value calculated by two-sided Student's t-test in
55 Δ SL1 and DGCR8^{-/-} ESCs compared with WT ESCs, corresponding to Figs. 2d, Extended
56 Data Fig. 4e, 4f.

57

58 Supplementary Table 3:

59 Naive and primed genes expression in WT, Δ SL1 and DGCR8^{-/-} mESCs during EpiLC
60 differentiation, corresponding to Extended Data Fig. 5a.

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62 Supplementary Table 4:

63 Genes with expressional changes in Δ SL1 compared with WT mESCs during EB and
64 neural differentiation, corresponding to Extended Data Fig. 6b-6d.

65

66 Supplementary Table 5:

67 The expression of three germ layers marker genes in WT and Δ SL1 mESCs during neural
68 and EB differentiation, corresponding to Fig. 3b, Extended Data Fig. 6e.

69

70 Supplementary Table 6:
71 Global miRNA expression during neural differentiation, corresponding to Extended Data
72 Fig. 6f.

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74 Supplementary Table 7:
75 The expression of lipid metabolic genes and three germ layer genes during EB
76 differentiation treatment with lipid metabolic inhibitor GW9662, corresponding to Extended
77 Data Figs. 8a, 8c, 8e.

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79 Supplementary Table 8:
80 Global miRNA expression in human cell lines, corresponding to Fig.4c.

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82 Supplementary Table 9:
83 List of primers and siRNA sequences used in the study.

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