iClust 1: N = 140 iClust 2: N = 72 **DPY19L1|ILMN_1791296 (ER binding) DPY19L1|ILMN_1791296 (ER binding)** [<=60] p = 0.076818No detectable trend: [<=60] p = 0.42171No detectable trend: 16 16 [>60] p = 0.86994[>60] p = 0.85751 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.044593[AII] p = 0.216214 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis iClust 3: N = 294 iClust 4: N = 344 DPY19L1|ILMN_1791296 (ER binding) DPY19L1|ILMN_1791296 (ER binding) [<=60] p = 0.19208[<=60] p = 0.44807No detectable trend: No detectable trend: 16 16 [>60] p = 0.0078017 |FC|<4 or adjPval>0.01 [>60] p = 0.0054666 |FC|<4 or adjPval>0.01 [AII] p = 1.6607e - 11[AII] p = 0.000162614 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ∞ ∞ 9 9 20 40 60 80 100 20 40 60 80 100

Age at diagnosis

Age at diagnosis

iClust 5: N = 191 iClust 6: N = 86 **DPY19L1|ILMN_1791296 (ER binding) DPY19L1|ILMN_1791296 (ER binding)** [<=60] p = 0.73303No detectable trend: [<=60] p = 0.16036No detectable trend: 16 16 [>60] p = 0.034465 [>60] p = 0.8755 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.82569[AII] p = 0.00041894 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ∞ ∞ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis iClust 7: N = 193 iClust 8: N = 300 DPY19L1|ILMN_1791296 (ER binding) DPY19L1|ILMN_1791296 (ER binding) [<=60] p = 0.016708No detectable trend: [<=60] p = 0.76297No detectable trend: 16 16 [>60] p = 0.40581 |FC|<4 or adjPval>0.01 [>60] p = 0.36928|FC|<4 or adjPval>0.01 [AII] p = 0.0040087[AII] p = 1.8523e - 054 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 DPY19L1|ILMN_1791296 (ER binding)

iClust 10: N = 226 DPY19L1|ILMN_1791296 (ER binding)

