iClust 1: N = 140 iClust 2: N = 72 RUNX1|ILMN_1801504 (ER binding) RUNX1|ILMN_1801504 (ER binding) [<=60] p = 0.62211 No detectable trend: [<=60] p = 0.4917No detectable trend: 16 16 [>60] p = 0.19252 [>60] p = 0.90449|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.61572[AII] p = 0.966184 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 3: N = 294 iClust 4: N = 344 RUNX1|ILMN_1801504 (ER binding) RUNX1|ILMN_1801504 (ER binding) [<=60] p = 0.23494No detectable trend: [<=60] p = 0.61201No detectable trend: 16 16 [>60] p = 0.0081571 |FC|<4 or adjPval>0.01 [>60] p = 0.84193 |FC|<4 or adjPval>0.01 [AII] p = 0.00014568[AII] p = 0.0365364 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω ∞ 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 RUNX1|ILMN_1801504 (ER binding) RUNX1|ILMN_1801504 (ER binding) [<=60] p = 0.72805No detectable trend: [<=60] p = 0.11842No detectable trend: 16 16 [>60] p = 0.53198 [>60] p = 0.094276|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.84257[AII] p = 0.000126074 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω ∞ 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 RUNX1|ILMN_1801504 (ER binding) RUNX1|ILMN_1801504 (ER binding) [<=60] p = 0.18213 [<=60] p = 0.081011No detectable trend: No detectable trend: 16 16 [>60] p = 0.27741 |FC|<4 or adjPval>0.01 [>60] p = 0.0024032 |FC|<4 or adjPval>0.01 [AII] p = 0.0021627[AII] p = 3.4945e - 064 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 RUNX1|ILMN_1801504 (ER binding)

iClust 10: N = 226 RUNX1|ILMN_1801504 (ER binding)

