iClust 1: N = 140 iClust 2: N = 72 GAS1|ILMN_1772910 (non-ER binding) GAS1|ILMN_1772910 (non-ER binding) [<=60] p = 0.037147No detectable trend: [<=60] p = 0.44048No detectable trend: 16 16 [>60] p = 0.51653[>60] p = 0.2062|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00071608[AII] p = 0.0120764 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 GAS1|ILMN_1772910 (non-ER binding) GAS1|ILMN_1772910 (non-ER binding) [<=60] p = 0.55686No detectable trend: [<=60] p = 0.32388No detectable trend: 16 16 [>60] p = 0.23139 |FC|<1.25 or adjPval>0.01 [>60] p = 8.8641e-05 |FC|<1.25 or adjPval>0.01 [AII] p = 6.0294e - 10[AII] p = 3.7575e - 074 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 5: N = 191 iClust 6: N = 86 GAS1|ILMN_1772910 (non-ER binding) GAS1|ILMN_1772910 (non-ER binding) [<=60] p = 0.049105No detectable trend: [<=60] p = 0.70794No detectable trend: 16 16 [>60] p = 0.54463[>60] p = 0.49581|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.26556[AII] p = 0.0014444 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 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 GAS1|ILMN_1772910 (non-ER binding) GAS1|ILMN_1772910 (non-ER binding) [<=60] p = 0.052352[<=60] p = 0.05222No detectable trend: No detectable trend: 16 16 [>60] p = 0.44878|FC|<1.25 or adjPval>0.01 [>60] p = 0.15059 |FC|<1.25 or adjPval>0.01 [AII] p = 0.035106[AII] p = 2.8851e-054 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 9: N = 146 GAS1|ILMN_1772910 (non-ER binding)

iClust 10: N = 226 GAS1|ILMN_1772910 (non-ER binding)

