iClust 1: N = 140 iClust 2: N = 72 STAT1|ILMN_1690105 (ER binding) STAT1|ILMN_1690105 (ER binding) [<=60] p = 0.67769No detectable trend: [<=60] p = 0.0064942No detectable trend: 16 16 [>60] p = 0.15419 [>60] p = 0.88628|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.14483[AII] p = 0.0218044 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 STAT1|ILMN_1690105 (ER binding) STAT1|ILMN_1690105 (ER binding) [<=60] p = 0.059128[<=60] p = 0.46873No detectable trend: No detectable trend: 16 16 [>60] p = 0.97813|FC|<1.25 or adjPval>0.01 [>60] p = 0.92128 |FC|<1.25 or adjPval>0.01 [All] p = 0.14215[AII] p = 0.969124 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 STAT1|ILMN_1690105 (ER binding) STAT1|ILMN_1690105 (ER binding) [<=60] p = 0.45029No detectable trend: [<=60] p = 0.69873No detectable trend: 16 16 [>60] p = 0.87803[>60] p = 0.4199 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.70775[AII] p = 0.930974 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 STAT1|ILMN_1690105 (ER binding) STAT1|ILMN_1690105 (ER binding) [<=60] p = 0.25014[<=60] p = 0.6926No detectable trend: No detectable trend: 16 16 [>60] p = 0.78425|FC|<1.25 or adjPval>0.01 [>60] p = 0.32471 |FC|<1.25 or adjPval>0.01 [AII] p = 0.51081[AII] p = 0.0374554 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 STAT1|ILMN_1690105 (ER binding)

iClust 10: N = 226 STAT1|ILMN_1690105 (ER binding)

