iClust 1: N = 140 iClust 2: N = 72 ARID1A|ILMN_1797341 (non-ER binding) ARID1A|ILMN_1797341 (non-ER binding) [<=60] p = 0.41298No detectable trend: [<=60] p = 0.40187No detectable trend: 16 16 [>60] p = 0.74138[>60] p = 0.12477 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.14758[AII] p = 0.524374 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 ARID1A|ILMN_1797341 (non-ER binding) ARID1A|ILMN_1797341 (non-ER binding) [<=60] p = 0.34888No detectable trend: [<=60] p = 0.043941No detectable trend: 16 16 [>60] p = 0.11894 |FC|<4 or adjPval>0.01 [>60] p = 0.12068 |FC|<4 or adjPval>0.01 [AII] p = 0.60256[AII] p = 0.345324 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 ARID1A|ILMN_1797341 (non-ER binding) ARID1A|ILMN_1797341 (non-ER binding) [<=60] p = 0.44459No detectable trend: [<=60] p = 0.69788No detectable trend: 16 16 [>60] p = 0.14001 [>60] p = 0.91993 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.087043[AII] p = 0.8214 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 7: N = 193 iClust 8: N = 300 ARID1A|ILMN_1797341 (non-ER binding) ARID1A|ILMN_1797341 (non-ER binding) [<=60] p = 0.038542[<=60] p = 0.37983No detectable trend: No detectable trend: 16 16 [>60] p = 0.94624 |FC|<4 or adjPval>0.01 [>60] p = 0.97472|FC|<4 or adjPval>0.01 [AII] p = 0.71283[AII] p = 0.0428844 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 9: N = 146 ARID1A|ILMN_1797341 (non-ER binding)

iClust 10: N = 226 ARID1A|ILMN_1797341 (non-ER binding)

