iClust 1: N = 140 iClust 2: N = 72 STAT1|ILMN_1777325 (ER binding) STAT1|ILMN_1777325 (ER binding) [<=60] p = 0.55592No detectable trend: [<=60] p = 0.0075708 No detectable trend: 16 16 [>60] p = 0.31534 [>60] p = 0.42198 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.2688[AII] p = 0.00871234 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 STAT1|ILMN_1777325 (ER binding) STAT1|ILMN_1777325 (ER binding) [<=60] p = 0.43655No detectable trend: [<=60] p = 0.034833No detectable trend: 16 16 [>60] p = 0.77774 |FC|<4 or adjPval>0.01 [>60] p = 0.74951 |FC|<4 or adjPval>0.01 [AII] p = 0.27444[AII] p = 0.728544 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω 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_1777325 (ER binding) STAT1|ILMN_1777325 (ER binding) [<=60] p = 0.52054No detectable trend: [<=60] p = 0.50391No detectable trend: 16 16 [>60] p = 0.88732 [>60] p = 0.77804 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.75848[AII] p = 0.68844 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω 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 STAT1|ILMN_1777325 (ER binding) STAT1|ILMN_1777325 (ER binding) [<=60] p = 0.54903[<=60] p = 0.47215No detectable trend: No detectable trend: 16 16 [>60] p = 0.30281 |FC|<4 or adjPval>0.01 [>60] p = 0.0077474 |FC|<4 or adjPval>0.01 [AII] p = 0.00033686[AII] p = 0.485054 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 19 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 STAT1|ILMN_1777325 (ER binding)

iClust 10: N = 226 STAT1|ILMN_1777325 (ER binding)

