iClust 1: N = 140 iClust 2: N = 72 Cyclin D1|ILMN_1688480 (ER binding) Cyclin D1|ILMN_1688480 (ER binding) [<=60] p = 0.68574No detectable trend: [<=60] p = 0.36621No detectable trend: 16 16 [>60] p = 0.75562[>60] p = 0.41942 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.0435[AII] p = 0.00476894 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 Cyclin D1|ILMN_1688480 (ER binding) Cyclin D1|ILMN_1688480 (ER binding) [<=60] p = 0.61164[<=60] p = 0.76464No detectable trend: No detectable trend: 16 16 [>60] p = 0.42427 [>60] p = 0.012553 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.29399[AII] p = 0.041364 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 Cyclin D1|ILMN_1688480 (ER binding) Cyclin D1|ILMN_1688480 (ER binding) [<=60] p = 0.033706No detectable trend: [<=60] p = 0.3241No detectable trend: 16 16 [>60] p = 0.84147[>60] p = 0.47809|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.077463[AII] p = 0.221854 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 7: N = 193 iClust 8: N = 300 Cyclin D1|ILMN_1688480 (ER binding) Cyclin D1|ILMN_1688480 (ER binding) [<=60] p = 0.87368[<=60] p = 0.68272No detectable trend: No detectable trend: 16 16 [>60] p = 0.38046[>60] p = 0.6654|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.55114[All] p = 0.0435334 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 Cyclin D1|ILMN_1688480 (ER binding)

iClust 10: N = 226 Cyclin D1|ILMN_1688480 (ER binding)

