iClust 1: N = 140 iClust 2: N = 72 IGF1R|ILMN\_1744023 (ER binding) IGF1R|ILMN\_1744023 (ER binding) [<=60] p = 0.6401No detectable trend: [<=60] p = 0.23896No detectable trend: 16 16 [>60] p = 0.8236[>60] p = 0.62941 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.1218[AII] p = 0.035374 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 IGF1R|ILMN\_1744023 (ER binding) IGF1R|ILMN\_1744023 (ER binding) [<=60] p = 0.47335No detectable trend: [<=60] p = 0.77752No detectable trend: 16 16 [>60] p = 0.28388 |FC|<2 or adjPval>0.01 [>60] p = 0.21933 |FC|<2 or adjPval>0.01 [AII] p = 0.49105[AII] p = 0.259484 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 5: N = 191 iClust 6: N = 86 IGF1R|ILMN\_1744023 (ER binding) IGF1R|ILMN\_1744023 (ER binding) [<=60] p = 0.55127No detectable trend: [<=60] p = 0.74685No detectable trend: 16 16 [>60] p = 0.7309[>60] p = 0.31834 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.0028344[All] p = 0.11494 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 IGF1R|ILMN\_1744023 (ER binding) IGF1R|ILMN\_1744023 (ER binding) [<=60] p = 0.21013 No detectable trend: [<=60] p = 0.22858No detectable trend: 16 16 [>60] p = 0.46693|FC|<2 or adjPval>0.01 [>60] p = 0.73963|FC|<2 or adjPval>0.01 [AII] p = 0.47676[All] p = 0.243154 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 9: N = 146 IGF1R|ILMN\_1744023 (ER binding)

iClust 10: N = 226 IGF1R|ILMN\_1744023 (ER binding)

