iClust 1: N = 140 iClust 2: N = 72 ANO1|ILMN_2091310 (ER binding) ANO1|ILMN_2091310 (ER binding) [<=60] p = 0.32167No detectable trend: [<=60] p = 0.13184No detectable trend: 16 16 [>60] p = 0.7632[>60] p = 0.90227 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.3805[AII] p = 0.303214 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 ANO1|ILMN_2091310 (ER binding) ANO1|ILMN_2091310 (ER binding) [<=60] p = 0.52963[<=60] p = 0.27493No detectable trend: No detectable trend: 16 16 [>60] p = 0.27806|FC|<1.25 or adjPval>0.01 [>60] p = 0.0080568 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00052272[AII] p = 3.1453e - 064 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 ANO1|ILMN_2091310 (ER binding) ANO1|ILMN_2091310 (ER binding) [<=60] p = 0.82651No detectable trend: [<=60] p = 0.25782No detectable trend: 16 16 [>60] p = 0.26315 |FC|<1.25 or adjPval>0.01 [>60] p = 0.90215 |FC|<1.25 or adjPval>0.01 [AII] p = 0.63944[AII] p = 0.502974 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 ANO1|ILMN_2091310 (ER binding) ANO1|ILMN_2091310 (ER binding) [<=60] p = 0.92154[<=60] p = 0.89854No detectable trend: No detectable trend: 16 16 [>60] p = 0.064972 |FC|<1.25 or adjPval>0.01 [>60] p = 0.22936 |FC|<1.25 or adjPval>0.01 [AII] p = 0.0025846[AII] p = 0.599434 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 ANO1|ILMN_2091310 (ER binding)

iClust 10: N = 226 ANO1|ILMN_2091310 (ER binding)

