iClust 1: N = 140 iClust 2: N = 72 ZNF22|ILMN_2117904 (non-ER binding) ZNF22|ILMN_2117904 (non-ER binding) [<=60] p = 0.050508No detectable trend: [<=60] p = 0.313No detectable trend: 16 16 [>60] p = 0.75793 [>60] p = 0.78794|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.015046[AII] p = 0.464154 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 ZNF22|ILMN_2117904 (non-ER binding) ZNF22|ILMN_2117904 (non-ER binding) [<=60] p = 0.06343[<=60] p = 0.38985No detectable trend: No detectable trend: 16 16 [>60] p = 0.10213 |FC|<1.25 or adjPval>0.01 [>60] p = 0.016229 |FC|<1.25 or adjPval>0.01 [AII] p = 4.2542e - 11[AII] p = 2.9387e - 074 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 ZNF22|ILMN_2117904 (non-ER binding) ZNF22|ILMN_2117904 (non-ER binding) [<=60] p = 0.30144No detectable trend: [<=60] p = 0.97946No detectable trend: 16 16 [>60] p = 8.1139e-05 [>60] p = 0.49199 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.0017488[AII] p = 0.0896954 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 ZNF22|ILMN_2117904 (non-ER binding) ZNF22|ILMN_2117904 (non-ER binding) [<=60] p = 0.92966[<=60] p = 0.02342No detectable trend: No detectable trend: 16 16 [>60] p = 0.3631|FC|<1.25 or adjPval>0.01 [>60] p = 0.49011|FC|<1.25 or adjPval>0.01 [AII] p = 0.0035783[AII] p = 4.7327e - 064 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 ZNF22|ILMN_2117904 (non-ER binding)

iClust 10: N = 226 ZNF22|ILMN_2117904 (non-ER binding)

