iClust 1: N = 140 iClust 2: N = 72 ZNF22|ILMN_1798533 (non-ER binding) ZNF22|ILMN_1798533 (non-ER binding) [<=60] p = 0.072049No detectable trend: [<=60] p = 0.76769No detectable trend: 16 16 [>60] p = 0.77197 [>60] p = 0.53566|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.055369[AII] p = 0.224314 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 3: N = 294 iClust 4: N = 344 ZNF22|ILMN_1798533 (non-ER binding) ZNF22|ILMN_1798533 (non-ER binding) [<=60] p = 0.12731 No detectable trend: [<=60] p = 0.84334No detectable trend: 16 16 [>60] p = 0.16906|FC|<4 or adjPval>0.01 [>60] p = 0.056732 |FC|<4 or adjPval>0.01 [AII] p = 1.5858e - 09[AII] p = 8.7479e - 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 ZNF22|ILMN_1798533 (non-ER binding) ZNF22|ILMN_1798533 (non-ER binding) [<=60] p = 0.78639No detectable trend: [<=60] p = 0.86736No detectable trend: 16 16 [>60] p = 7.7802e-05 [>60] p = 0.33459 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.0007519[AII] p = 0.13074 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 7: N = 193 iClust 8: N = 300 ZNF22|ILMN_1798533 (non-ER binding) ZNF22|ILMN_1798533 (non-ER binding) [<=60] p = 0.50741[<=60] p = 0.032232No detectable trend: No detectable trend: 16 16 [>60] p = 0.22805|FC|<4 or adjPval>0.01 [>60] p = 0.56963|FC|<4 or adjPval>0.01 [AII] p = 0.0020069[AII] p = 7.4658e - 054 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 ZNF22|ILMN_1798533 (non-ER binding)

iClust 10: N = 226 ZNF22|ILMN_1798533 (non-ER binding)

