iClust 1: N = 140 iClust 2: N = 72 TSHZ2|ILMN\_1655611 (ER binding) TSHZ2|ILMN\_1655611 (ER binding) [<=60] p = 0.063585No detectable trend: [<=60] p = 0.58645No detectable trend: 16 16 [>60] p = 0.83742 [>60] p = 0.12484 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.014232[AII] p = 0.0430344 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 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 TSHZ2|ILMN\_1655611 (ER binding) TSHZ2|ILMN\_1655611 (ER binding) [<=60] p = 0.36786[<=60] p = 0.68989No detectable trend: No detectable trend: 16 16 [>60] p = 0.0035094 |FC|<1.25 or adjPval>0.01 [>60] p = 0.0024911 |FC|<1.25 or adjPval>0.01 [AII] p = 8.5944e - 07[AII] p = 1.4065e - 074 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 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 TSHZ2|ILMN\_1655611 (ER binding) TSHZ2|ILMN\_1655611 (ER binding) [<=60] p = 0.35333No detectable trend: [<=60] p = 0.6467No detectable trend: 16 16 [>60] p = 0.76796[>60] p = 0.067339|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.13299[AII] p = 0.000146674 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 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 TSHZ2|ILMN\_1655611 (ER binding) TSHZ2|ILMN\_1655611 (ER binding) [<=60] p = 0.15503[<=60] p = 0.097819No detectable trend: No detectable trend: 16 16 [>60] p = 0.00035038 [>60] p = 0.0041697 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 4.7598e - 06[AII] p = 3.4216e - 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 9: N = 146 TSHZ2|ILMN\_1655611 (ER binding)

iClust 10: N = 226 TSHZ2|ILMN\_1655611 (ER binding)

