iClust 1: N = 140 iClust 2: N = 72 CLDN11|ILMN_1754103 (ER binding) CLDN11|ILMN_1754103 (ER binding) [<=60] p = 0.008827No detectable trend: [<=60] p = 0.15416No detectable trend: 16 16 [>60] p = 0.17847 [>60] p = 0.031459 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.0002787[AII] p = 0.503384 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 20 40 60 80 100 40 60 80 100 Age at diagnosis Age at diagnosis iClust 3: N = 294 iClust 4: N = 344 CLDN11|ILMN_1754103 (ER binding) CLDN11|ILMN_1754103 (ER binding) [<=60] p = 0.36301[<=60] p = 0.42182No detectable trend: No detectable trend: 16 16 [>60] p = 0.02949|FC|<2 or adjPval>0.01 [>60] p = 0.0042989 |FC|<2 or adjPval>0.01 [AII] p = 6.2312e - 07[AII] p = 2.4462e - 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 5: N = 191 iClust 6: N = 86 CLDN11|ILMN_1754103 (ER binding) CLDN11|ILMN_1754103 (ER binding) [<=60] p = 0.34783No detectable trend: [<=60] p = 0.21651 No detectable trend: 16 16 [>60] p = 0.046983 [>60] p = 0.72426 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.087395[AII] p = 0.0021174 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 20 40 60 80 100 40 60 80 100 Age at diagnosis Age at diagnosis iClust 7: N = 193 iClust 8: N = 300 CLDN11|ILMN_1754103 (ER binding) CLDN11|ILMN_1754103 (ER binding) [<=60] p = 0.70848[<=60] p = 0.14588No detectable trend: No detectable trend: 16 16 [>60] p = 0.007352 |FC|<2 or adjPval>0.01 [>60] p = 0.0061259 |FC|<2 or adjPval>0.01 [AII] p = 1.9187e - 05[AII] p = 3.6748e - 094 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 CLDN11|ILMN_1754103 (ER binding)

iClust 10: N = 226 CLDN11|ILMN_1754103 (ER binding)

