iClust 1: N = 140 iClust 2: N = 72 ZMIZ1|ILMN_1771627 (ER binding) ZMIZ1|ILMN_1771627 (ER binding) [<=60] p = 0.45208No detectable trend: [<=60] p = 0.14937No detectable trend: 16 16 [>60] p = 0.39833[>60] p = 0.167 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.93641[AII] p = 0.279094 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 ZMIZ1|ILMN_1771627 (ER binding) ZMIZ1|ILMN_1771627 (ER binding) [<=60] p = 0.65059[<=60] p = 0.43581No detectable trend: No detectable trend: 16 16 [>60] p = 0.56778|FC|<4 or adjPval>0.01 [>60] p = 0.020659|FC|<4 or adjPval>0.01 [AII] p = 0.0062452[All] p = 0.013954 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 ZMIZ1|ILMN_1771627 (ER binding) ZMIZ1|ILMN_1771627 (ER binding) [<=60] p = 0.042934No detectable trend: [<=60] p = 0.67323No detectable trend: 16 16 [>60] p = 0.2656[>60] p = 0.91513 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.034085[AII] p = 0.524834 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 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 ZMIZ1|ILMN_1771627 (ER binding) ZMIZ1|ILMN_1771627 (ER binding) [<=60] p = 0.5047No detectable trend: [<=60] p = 0.65869No detectable trend: 16 16 [>60] p = 0.093708|FC|<4 or adjPval>0.01 [>60] p = 0.086907|FC|<4 or adjPval>0.01 [AII] p = 0.1466[AII] p = 7.5418e - 094 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω ∞ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 ZMIZ1|ILMN_1771627 (ER binding)

iClust 10: N = 226 ZMIZ1|ILMN_1771627 (ER binding)

