iClust 1: N = 140 iClust 2: N = 72 MAP3K1|ILMN_1723020 (non-ER binding) MAP3K1|ILMN_1723020 (non-ER binding) [<=60] p = 0.14358 No detectable trend: [<=60] p = 0.67833No detectable trend: 16 16 [>60] p = 0.71188 [>60] p = 0.93487|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.30085[AII] p = 0.375024 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 MAP3K1|ILMN_1723020 (non-ER binding) MAP3K1|ILMN_1723020 (non-ER binding) [<=60] p = 0.076805[<=60] p = 0.1152No detectable trend: No detectable trend: 16 16 [>60] p = 0.57191 |FC|<1.25 or adjPval>0.01 [>60] p = 0.87799|FC|<1.25 or adjPval>0.01 [AII] p = 0.034863[AII] p = 0.00299654 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 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 MAP3K1|ILMN_1723020 (non-ER binding) MAP3K1|ILMN_1723020 (non-ER binding) [<=60] p = 0.34981No detectable trend: [<=60] p = 0.82689No detectable trend: 16 16 [>60] p = 0.42004[>60] p = 0.845|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.17795[AII] p = 0.363764 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 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 MAP3K1|ILMN_1723020 (non-ER binding) MAP3K1|ILMN_1723020 (non-ER binding) [<=60] p = 0.33007[<=60] p = 0.88232No detectable trend: No detectable trend: 16 16 [>60] p = 0.28082|FC|<1.25 or adjPval>0.01 [>60] p = 0.36583|FC|<1.25 or adjPval>0.01 [AII] p = 0.088845[AII] p = 0.980944 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 MAP3K1|ILMN_1723020 (non-ER binding)

iClust 10: N = 226 MAP3K1|ILMN_1723020 (non-ER binding)

