**PAM50 LumA: N = 721 PAM50 LumB: N = 492** WHSC1/MMSET|ILMN\_1651567 (non-ER binding WHSC1/MMSET|ILMN\_1651567 (non-ER binding [<=60] p = 0.26266No detectable trend: [<=60] p = 0.034706No detectable trend: 16 16 [>60] p = 0.68157 |FC|<1.25 or adjPval>0.01 [>60] p = 0.24711 |FC|<1.25 or adjPval>0.01 [AII] p = 0.12521[AII] p = 0.330634 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 PAM50 Her2: N = 240 **PAM50 Basal: N = 331** WHSC1/MMSET|ILMN\_1651567 (non-ER binding WHSC1/MMSET|ILMN\_1651567 (non-ER binding [<=60] p = 0.29908No detectable trend: [<=60] p = 0.25629No detectable trend: 16 16 [>60] p = 0.93675[>60] p = 0.9225 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.077095[All] p = 0.569574 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

## PAM50 Normal: N = 202 WHSC1/MMSET|ILMN\_1651567 (non-ER binding

