**PAM50 LumA: N = 721 PAM50 LumB: N = 492** HER2|ILMN\_2352131 (non-ER binding) HER2|ILMN\_2352131 (non-ER binding) [<=60] p = 0.32514No detectable trend: [<=60] p = 0.046079No detectable trend: 16 16 [>60] p = 0.95247[>60] p = 0.088687 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.35671[AII] p = 0.707314 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** HER2|ILMN\_2352131 (non-ER binding) HER2|ILMN\_2352131 (non-ER binding) [<=60] p = 0.11033Age-dependent trend: [<=60] p = 0.63213No detectable trend: 16 16 [>60] p = 0.072123 |FC|>4 and adjPval<0.01 [>60] p = 0.27189 |FC|<4 or adjPval>0.01 [AII] p = 5.1998e - 07[AII] p = 0.918354 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 HER2|ILMN\_2352131 (non-ER binding)

