**PAM50 LumB: N = 492 PAM50 LumA: N = 721** HER2|ILMN\_1728761 HER2|ILMN\_1728761 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.76265No detectable trend: [<=60] p = 0.16766No detectable trend: 16 16 [>60] p = 3.0465e-05 |FC|<1.25 or adjPval>0.01 [>60] p = 0.25353 |FC|<1.25 or adjPval>0.01 [AII] p = 0.94127[AII] p = 0.568234 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\_1728761 HER2|ILMN\_1728761 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.15351No detectable trend: [<=60] p = 0.43096No detectable trend: 16 16 [>60] p = 0.047265 |FC|<1.25 or adjPval>0.01 [>60] p = 0.96944 |FC|<1.25 or adjPval>0.01 [AII] p = 2.0034e - 05[AII] p = 0.313084 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 HER2|ILMN\_1728761

NKI Tier 1: non-ER binding; Tier 2: ER binding

