**PAM50 LumB: N = 492 PAM50 LumA: N = 721** AR|ILMN\_1792540 AR|ILMN\_1792540 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.41888No detectable trend: [<=60] p = 0.0082893No detectable trend: 16 16 [>60] p = 0.52515 |FC|<1.25 or adjPval>0.01 [>60] p = 0.75357 |FC|<1.25 or adjPval>0.01 [AII] p = 0.16683[AII] p = 0.587544 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** AR|ILMN\_1792540 AR|ILMN\_1792540 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.0028266[<=60] p = 0.25211No detectable trend: No detectable trend: 16 16 [>60] p = 0.0079932|FC|<1.25 or adjPval>0.01 [>60] p = 0.39141 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00039721[All] p = 0.505354 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

## PAM50 Normal: N = 202 AR|ILMN\_1792540

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

