**PAM50 LumA: N = 721 PAM50 LumB: N = 492** RUNX1|ILMN\_1730797 RUNX1|ILMN\_1730797 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.048645 [<=60] p = 0.064508No detectable trend: No detectable trend: 16 16 [>60] p = 0.2406|FC|<4 or adjPval>0.01 [>60] p = 0.03613 |FC|<4 or adjPval>0.01 [AII] p = 0.0021631[AII] p = 0.0023874 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 RUNX1|ILMN\_1730797 RUNX1|ILMN\_1730797 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.077837No detectable trend: [<=60] p = 0.3477No detectable trend: 16 16 [>60] p = 0.45025 |FC|<4 or adjPval>0.01 [>60] p = 0.38758 |FC|<4 or adjPval>0.01 [AII] p = 0.46162[All] p = 0.317794 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100

Age at diagnosis

Age at diagnosis

PAM50 Normal: N = 202 RUNX1|ILMN\_1730797

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

