**PAM50 LumA: N = 721 PAM50 LumB: N = 492** MSMB|ILMN\_1699243 MSMB|ILMN\_1699243 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.013226No detectable trend: [<=60] p = 0.16454No detectable trend: 16 16 [>60] p = 0.069235 [>60] p = 0.026045 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 1.4788e - 06[AII] p = 3.5913e - 054 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 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240

80 100 **PAM50** Basal: **N** = 331 MSMB|ILMN\_1699243 MSMB|ILMN\_1699243 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.29855No detectable trend: [<=60] p = 0.13479No detectable trend: 16 9 [>60] p = 0.66744|FC|<1.25 or adjPval>0.01 [>60] p = 0.50336|FC|<1.25 or adjPval>0.01 [All] p = 0.99554[AII] p = 0.987424 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$ ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

PAM50 Normal: N = 202 MSMB|ILMN\_1699243

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

