**PAM50 LumA: N = 721 PAM50 LumB: N = 492** HDAC1|ILMN\_1727458 HDAC1|ILMN\_1727458 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.02932No detectable trend: [<=60] p = 0.51812No detectable trend: 16 16 [>60] p = 0.47935|FC|<4 or adjPval>0.01 [>60] p = 0.67798 |FC|<4 or adjPval>0.01 [AII] p = 0.021151[AII] p = 0.449074 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 20 40 60 80 100 100 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240**PAM50** Basal: **N** = 331 HDAC1|ILMN\_1727458 HDAC1|ILMN\_1727458 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.86894No detectable trend: [<=60] p = 0.28264No detectable trend: 16 16 [>60] p = 0.25661 |FC|<4 or adjPval>0.01 [>60] p = 0.90953 |FC|<4 or adjPval>0.01 [AII] p = 0.037234[All] p = 0.146524 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 HDAC1|ILMN\_1727458

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

