PAM50 LumA: N = 721 PAM50 LumB: N = 492HIF3alpha|ILMN_2287061 HIF3alpha|ILMN_2287061 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.079815No detectable trend: [<=60] p = 0.46726No detectable trend: 16 16 [>60] p = 0.076722 [>60] p = 0.12357 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.23603[All] p = 0.128244 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis **PAM50 Basal: N = 331** PAM50 Her2: N = 240HIF3alpha|ILMN_2287061 HIF3alpha|ILMN_2287061 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.52092[<=60] p = 0.93494No detectable trend: No detectable trend: 16 16 [>60] p = 0.35296|FC|<1.25 or adjPval>0.01 [>60] p = 0.44906 |FC|<1.25 or adjPval>0.01 [All] p = 0.74563[AII] p = 0.339294 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10

ω

9

20

40

60

Age at diagnosis

80

100

ω

9

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 HIF3alpha|ILMN_2287061

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

