**PAM50 LumA: N = 721 PAM50 LumB: N = 492** HIF1beta/ARNT|ILMN\_1762582 (ER binding) HIF1beta/ARNT|ILMN\_1762582 (ER binding) [<=60] p = 0.47766No detectable trend: [<=60] p = 0.63936No detectable trend: 16 16 [>60] p = 0.024644 |FC|<2 or adjPval>0.01 [>60] p = 0.10563 |FC|<2 or adjPval>0.01 [AII] p = 0.0092461[AII] p = 0.0955174 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** HIF1beta/ARNT|ILMN\_1762582 (ER binding) HIF1beta/ARNT|ILMN\_1762582 (ER binding) [<=60] p = 0.65611No detectable trend: [<=60] p = 0.84599No detectable trend: 16 16 [>60] p = 0.66768|FC|<2 or adjPval>0.01 [>60] p = 0.67349 |FC|<2 or adjPval>0.01 [AII] p = 0.8612[All] p = 0.196534 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 HIF1beta/ARNT|ILMN\_1762582 (ER binding)

