

DNA Copy number aberrations	PYCR1			ALDH18A1			GLS		
	None	Gain	$\chi^2$ (p-value)	None	Loss	$\chi^2$ (p-value)	None	Gain	$\chi^2$ (p-value)
<b>PAM50</b>									
Luminal A	649 (92.3)	54 (7.7)		704 (98.9)	8 (1.1)		708 (99.2)	6 (0.8)	
Luminal B	354 (75.3)	116 (24.7)		466 (96.1)	19 (3.9)		470 (98.3)	8 (1.7)	
Basal	272 (83.4)	54 (16.6)	89.3 ( $1.9 \times 10^{-18}$ )	308 (94.2)	19 (5.8)	22.4 ( <b>0.0002</b> )	303 (92.7)	24 (7.3)	49.5 ( $4.7 \times 10^{-10}$ )
HER2	211 (89.8)	24 (10.2)		231 (97.9)	5 (2.1)		229 (95.8)	10 (4.2)	
Normal	184 (95.3)	9 (4.7)		196 (98.5)	3 (1.5)		196 (100)	0	

**Table 1.** Gln-Pro enzymes and breast cancer molecular subtypes