

Supplementary Table S1. Significant clinical variables associated with hepsin and TMPRSS3 protein expression

Clinical variable (%)	Protein expression ^a			OR (95 % CI) ^c
	Low	Moderate/high, Ref.	P ^b	
Hepsin				
Tumor grade			0.0004^b	
I	28 (32.2)	59 (67.8)		Ref.
II	76 (46.9)	86 (53.1)	0.025	1.862 (1.079-3.213)
III	64 (61.0)	41 (39.0)	0.00009	3.289 (1.811-5.973)
Tumor stage			0.015^b	
I	48 (39.7)	73 (60.3)		Ref.
II	91 (49.5)	93 (50.5)	0.094	1.488 (0.935-2.369)
III, IV	29 (64.4)	16 (35.6)	0.005	2.757 (1.354-5.611)
Tumor size			0.025^b	
T1	72 (41.6)	101 (58.4)		Ref.
T2	86 (53.8)	74 (46.2)	0.027	1.630 (1.057-2.515)
T3, T4	21 (61.8)	13 (38.2)	0.034	2.266 (1.065-4.821)
Nodal status			0.010^b	
Negative	82 (41.6)	115 (58.4)		Ref.
Positive	86 (55.5)	69 (44.5)	0.010	1.748 (1.143-2.674)
TMPPSS3				
Tumor grade			0.0000008^b	
I	29 (33.0)	59 (67.0)		Ref.
II	85 (52.8)	76 (47.2)	0.002	2.341 (1.364-4.018)
III	75 (70.8)	31 (29.2)	0.0000002	5.006 (2.721-9.209)
Tumor stage			0.007^b	
I	51 (41.8)	71 (58.2)		Ref.
II	109 (59.2)	75 (40.8)	0.002	2.109 (1.328-3.348)
III, IV	27 (60.0)	18 (40.0)	0.028	2.176 (1.086-4.361)
Tumor size			0.002^b	
T1	79 (45.4)	95 (54.6)		Ref.
T2	102 (63.8)	58 (36.2)	0.00083	2.115 (1.363-3.281)
T3, T4	16 (45.7)	19 (54.3)	0.973	1.013 (0.489-2.099)
PR status			0.022^b	
Negative	87 (61.7)	54 (38.3)	0.017	1.679 (1.098-2.568)
Positive	103 (48.8)	108 (51.2)		Ref.
ER/PR/HER2 status			0.022^b	
Triple-negative	30 (69.8)	13 (30.2)	0.022	2.244 (1.125-4.477)
Non-triple-negative	146 (50.7)	142 (49.3)		Ref.
Histological type			0.060 ^b	
Ductal	131 (55.3)	106 (44.7)	0.031	1.760 (1.053-2.942)
Lobular	43 (59.7)	29 (40.3)	0.024	2.112 (1.105-4.037)
Other malignant	26 (40.6)	38 (59.4)		Ref.

NS, not significant; Ref., reference category in the logistic regression analysis

^aThe median value of protein expression was used in the analyses.

^b*P* value assessed by Fisher's exact test. Other *P* values from logistic regression analysis.

^cOR and 95% CI values for association from logistic regression analysis.