

5390-sequencePCTeng
SEQUENCE LISTING

<110> Università degli studi di Torino

<120> METHOD FOR IN VITRO DIAGNOSIS OF PROSTATE CANCER BY MEANS OF URINARY BIOMARKERS

<130> 615-15

<160> 11

<170> BiSSAP 1.3

<210> 1

<211> 212

<212> PRT

<213> Homo sapiens

<400> 1

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Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu
1      5      10      15
Gly Leu Leu Leu Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro
      20      25      30
Gly Glu Asp Ser Lys Asp Val Ala Pro His Arg Gln Pro Leu Thr
      35      40      45
Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile Leu Asp Gly Ile
      50      55      60
Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
65      70      75      80
Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala
      85      90      95
Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu
      100      105      110
Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val Tyr Leu Glu Tyr
      115      120      125
Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala Arg Ala Val Gln
      130      135      140
Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
145      150      155      160
Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu
      165      170      175
Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His
      180      185      190
Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser Ser Leu Arg Ala
      195      200      205
Leu Arg Gln Met
      210

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<210> 2

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2

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Met Arg Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala
1      5      10      15
Ile Pro Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu
      20      25      30
Tyr Asn Lys Tyr Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro
      35      40      45
Ser Gln Lys Gln Asn Leu Leu Ala Pro Gln Asn Ala Val Ser Ser Glu
      50      55      60
Glu Thr Asn Asp Phe Lys Gln Glu Thr Leu Pro Ser Lys Ser Asn Glu
65      70      75      80
Ser His Asp His Met Asp Asp Met Asp Asp Glu Asp Asp Asp Asp His
      85      90      95
Val Asp Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp Asp Val Asp
      100      105      110

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Asp	Thr	Asp	Asp	Ser	His	Gln	Ser	Asp	Glu	Ser	His	His	Ser	Asp	Glu
		115					120					125			
Ser	Asp	Glu	Leu	Val	Thr	Asp	Phe	Pro	Thr	Asp	Leu	Pro	Ala	Thr	Glu
	130					135					140				
Val	Phe	Thr	Pro	Val	Val	Pro	Thr	Val	Asp	Thr	Tyr	Asp	Gly	Arg	Gly
	145				150					155					160
Asp	Ser	Val	Val	Tyr	Gly	Leu	Arg	Ser	Lys	Ser	Lys	Lys	Phe	Arg	Arg
				165					170					175	
Pro	Asp	Ile	Gln	Tyr	Pro	Asp	Ala	Thr	Asp	Glu	Asp	Ile	Thr	Ser	His
			180					185					190		
Met	Glu	Ser	Glu	Glu	Leu	Asn	Gly	Ala	Tyr	Lys	Ala	Ile	Pro	Val	Ala
		195					200					205			
Gln	Asp	Leu	Asn	Ala	Pro	Ser	Asp	Trp	Asp	Ser	Arg	Gly	Lys	Asp	Ser
	210					215					220				
Tyr	Glu	Thr	Ser	Gln	Leu	Asp	Asp	Gln	Ser	Ala	Glu	Thr	His	Ser	His
	225				230					235					240
Lys	Gln	Ser	Arg	Leu	Tyr	Lys	Arg	Lys	Ala	Asn	Asp	Glu	Ser	Asn	Glu
				245					250					255	
His	Ser	Asp	Val	Ile	Asp	Ser	Gln	Glu	Leu	Ser	Lys	Val	Ser	Arg	Glu
			260					265					270		
Phe	His	Ser	His	Glu	Phe	His	Ser	His	Glu	Asp	Met	Leu	Val	Val	Asp
		275					280					285			
Pro	Lys	Ser	Lys	Glu	Glu	Asp	Lys	His	Leu	Lys	Phe	Arg	Ile	Ser	His
	290					295					300				
Glu	Leu	Asp	Ser	Ala	Ser	Ser	Glu	Val	Asn						
	305				310										

<210> 3
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 <212> PRT
 <213> Homo sapiens

<400> 3

Met	Thr	Asp	Arg	Gln	Thr	Asp	Thr	Ala	Pro	Ser	Pro	Ser	Tyr	His	Leu
				5				10						15	
Leu	Pro	Gly	Arg	Arg	Arg	Thr	Val	Asp	Ala	Ala	Ala	Ser	Arg	Gly	Gln
			20					25					30		
Gly	Pro	Glu	Pro	Ala	Pro	Gly	Gly	Gly	Val	Glu	Gly	Val	Gly	Ala	Arg
		35					40					45			
Gly	Val	Ala	Leu	Lys	Leu	Phe	Val	Gln	Leu	Leu	Gly	Cys	Ser	Arg	Phe
	50					55					60				
Gly	Gly	Ala	Val	Val	Arg	Ala	Gly	Glu	Ala	Glu	Pro	Ser	Gly	Ala	Ala
	65				70					75				80	
Arg	Ser	Ala	Ser	Ser	Gly	Arg	Glu	Glu	Pro	Gln	Pro	Glu	Glu	Gly	Glu
				85					90					95	
Glu	Glu	Glu	Glu	Lys	Glu	Glu	Glu	Arg	Gly	Pro	Gln	Trp	Arg	Leu	Gly
			100					105					110		
Ala	Arg	Lys	Pro	Gly	Ser	Trp	Thr	Gly	Glu	Ala	Ala	Val	Cys	Ala	Asp
		115					120					125			
Ser	Ala	Pro	Ala	Ala	Arg	Ala	Pro	Gln	Ala	Leu	Ala	Arg	Ala	Ser	Gly
	130					135					140				
Arg	Gly	Gly	Arg	Val	Ala	Arg	Arg	Gly	Ala	Glu	Glu	Ser	Gly	Pro	Pro
	145				150					155				160	
His	Ser	Pro	Ser	Arg	Arg	Gly	Ser	Ala	Ser	Arg	Ala	Gly	Pro	Gly	Arg
				165					170					175	
Ala	Ser	Glu	Thr	Met	Asn	Phe	Leu	Leu	Ser	Trp	Val	His	Trp	Ser	Leu
			180					185					190		
Ala	Leu	Leu	Leu	Tyr	Leu	His	His	Ala	Lys	Trp	Ser	Gln	Ala	Ala	Pro
		195					200					205			
Met	Ala	Glu	Gly	Gly	Gly	Gln	Asn	His	His	Glu	Val	Val	Lys	Phe	Met
	210					215					220				
Asp	Val	Tyr	Gln	Arg	Ser	Tyr	Cys	His	Pro	Ile	Glu	Thr	Leu	Val	Asp
	225				230					235				240	
Ile	Phe	Gln	Glu	Tyr	Pro	Asp	Glu	Ile	Glu	Tyr	Ile	Phe	Lys	Pro	Ser
				245					250					255	
Cys	Val	Pro	Leu	Met	Arg	Cys	Gly	Gly	Cys	Cys	Asn	Asp	Glu	Gly	Leu
			260					265					270		
Glu	Cys	Val	Pro	Thr	Glu	Glu	Ser	Asn	Ile	Thr	Met	Gln	Ile	Met	Arg

5390-sequencePCTeng
Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr
355 360 365
Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val
370 375 380
Arg Ser Cys Lys Cys Ser
385 390

<210> 5
<211> 155
<212> PRT
<213> Homo sapiens

<400> 5
Met Thr Pro Gly Lys Thr Ser Leu Val Ser Leu Leu Leu Leu Leu Ser
1 5 10 15
Leu Glu Ala Ile Val Lys Ala Gly Ile Thr Ile Pro Arg Asn Pro Gly
20 25 30
Cys Pro Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val Met Val Asn
35 40 45
Leu Asn Ile His Asn Arg Asn Thr Asn Thr Asn Pro Lys Arg Ser Ser
50 55 60
Asp Tyr Tyr Asn Arg Ser Thr Ser Pro Trp Asn Leu His Arg Asn Glu
65 70 75 80
Asp Pro Glu Arg Tyr Pro Ser Val Ile Trp Glu Ala Lys Cys Arg His
85 90 95
Leu Gly Cys Ile Asn Ala Asp Gly Asn Val Asp Tyr His Met Asn Ser
100 105 110
Val Pro Ile Gln Gln Glu Ile Leu Val Leu Arg Arg Glu Pro Pro His
115 120 125
Cys Pro Asn Ser Phe Arg Leu Glu Lys Ile Leu Val Ser Val Gly Cys
130 135 140
Thr Cys Val Thr Pro Ile Val His His Val Ala
145 150 155

<210> 6
<211> 144
<212> PRT
<213> Homo sapiens

<400> 6
Met Trp Leu Gln Ser Leu Leu Leu Leu Gly Thr Val Ala Cys Ser Ile
1 5 10 15
Ser Ala Pro Ala Arg Ser Pro Ser Pro Thr Gln Pro Trp Glu His
20 25 30
Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp
35 40 45
Thr Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe
50 55 60
Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys
65 70 75 80
Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met
85 90 95
Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser
100 105 110
Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys
115 120 125
Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
130 135 140

<210> 7
<211> 98
<212> PRT
<213> Homo sapiens

<400> 7
Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
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5390-sequencePCTeng

65 70 75 80

Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser

85 90