

Sequence Listing

<110> WANG, Ju-MING

<120> MEDICINAL COMPOSITION INCLUDING MONOCLONAL ANTIBODY OR ANTIGEN-BINDING
FRAGMENT AND USE OF THE SAME

<130>

<150> PCT/CN2018/105733

<151> 2018-09-14

<150> PCT/CN2018/106144

<151> 2018-09-18

<150> US 62/867,244

<151> 2019-06-27

<160> 41

<210> 1

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 200th to 208th amino acid residues of Human sapiens PTX3

<400> 1

Arg Pro Met Arg Leu Glu Ser Phe Ser

1

5

<210> 2

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 203rd to 211st amino acid residues of Human sapiens PTX3

<400> 2

Arg Leu Glu Ser Phe Ser Ala Cys Ile

1

5

<210> 3

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 206th to 214th amino acid residues of Human sapiens PTX3

<400> 3

Ser Phe Ser Ala Cys Ile Trp Val Lys

1

5

<210> 4

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 209th to 217th amino acid residues of Human sapiens PTX3

<400> 4

Ala Cys Ile Trp Val Lys Ala Thr Asp

1

5

<210> 5

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 212nd to 220th amino acid residues of Human sapiens PTX3

<400> 5

Trp Val Lys Ala Thr Asp Val Leu Asn

1

5

<210> 6

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 215th to 223rd amino acid residues of Human sapiens PTX3

<400> 6

Ala Thr Asp Val Leu Asn Lys Thr Ile

1

5

<210> 7

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 218th to 226th amino acid residues of Human sapiens PTX3

<400> 7

Val Leu Asn Lys Thr Ile Leu Phe Ser

1

5

<210> 8

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 221st to 229th amino acid residues of Human sapiens PTX3

<400> 8

Lys Thr Ile Leu Phe Ser Tyr Gly Thr

1

5

<210> 9

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<221>

<222>

<223> The 224th to 232nd amino acid residues of Human sapiens PTX3

<400> 9

Leu Phe Ser Tyr Gly Thr Lys Arg Asn

1

5

<210> 10

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<221>
 <222>
 <223> The 227th to 236th amino acid residues of Human sapiens PTX3

<400> 10
 Tyr Gly Thr Lys Arg Asn Pro Tyr Glu Ile
 1 5 10

<210> 11
 <211> 15
 <212> PRT
 <213> Artificial sequence

<220>
 <221>
 <222>
 <223> The 203rd to 217th amino acid residues of Human sapiens PTX3

<400> 11
 Arg Leu Glu Ser Phe Ser Ala Cys Ile Trp Val Lys Ala Thr Asp
 1 5 10 15

<210> 12
 <211> 37
 <212> PRT
 <213> Artificial sequence

<220>
 <221>
 <222> (200)...(236)
 <223> The 200th to 236th amino acid residues of Human sapiens PTX3 (RI37)

<400> 12
 Arg Pro Met Arg Leu Glu Ser Phe Ser Ala Cys Ile Trp Val Lys Ala
 1 5 10 15
 Thr Asp Val Leu Asn Lys Thr Ile Leu Phe Ser Tyr Gly Thr Lys Arg
 20 25 30
 Asn Pro Tyr Glu Ile
 35

<210> 13
 <211> 160
 <212> PRT
 <213> Artificial sequence

<220>
 <221>
 <222> (200)...(359)
 <223> Human sapiens PTX3 recombinant protein

<400> 13
 Arg Pro Met Arg Leu Glu Ser Phe Ser Ala Cys Ile Trp Val Lys Ala

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

<210> 14

<211> 363

<212> PRT

<213> Artificial sequence

<220>

<221>

<222> (19)...(381)

<223> Human sapiens PTX3 recombinant protein

<400> 14

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

Ser Val His Pro Val Arg Pro Met Arg Leu Glu Ser Phe Ser Ala Cys
 180 185 190
 Ile Trp Val Lys Ala Thr Asp Val Leu Asn Lys Thr Ile Leu Phe Ser
 195 200 205
 Tyr Gly Thr Lys Arg Asn Pro Tyr Glu Ile Gln Leu Tyr Leu Ser Tyr
 210 215 220
 Gln Ser Ile Val Phe Val Val Gly Gly Glu Glu Asn Lys Leu Val Ala
 225 230 235 240
 Glu Ala Met Val Ser Leu Gly Arg Trp Thr His Leu Cys Gly Thr Trp
 245 250 255
 Asn Ser Glu Glu Gly Leu Thr Ser Leu Trp Val Asn Gly Glu Leu Ala
 260 265 270
 Ala Thr Thr Val Glu Met Ala Thr Gly His Ile Val Pro Glu Gly Gly
 275 280 285
 Ile Leu Gln Ile Gly Gln Glu Lys Asn Gly Cys Cys Val Gly Gly Gly
 290 295 300
 Phe Asp Glu Thr Leu Ala Phe Ser Gly Arg Leu Thr Gly Phe Asn Ile
 305 310 315 320
 Trp Asp Ser Val Leu Ser Asn Glu Glu Ile Arg Glu Thr Gly Gly Ala
 325 330 335
 Glu Ser Cys His Ile Arg Gly Asn Ile Val Gly Trp Gly Val Thr Glu
 340 345 350
 Ile Gln Pro His Gly Gly Ala Gln Tyr Val Ser
 355 360

<210> 15

<211> 381

<212> PRT

<213> Artificial sequence

<220>

<221>

<222> (1)...(381)

<223> Human sapiens PTX3 recombinant protein

<400> 15

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

Arg	Arg	Leu	Ala	Arg	Met	Glu	Gly	Ala	Glu	Ala	Gln	Arg	Pro	Glu	Glu
130						135					140				
Ala	Gly	Arg	Ala	Leu	Ala	Ala	Val	Leu	Glu	Glu	Leu	Arg	Gln	Thr	Arg
145					150					155					160
Ala	Asp	Leu	His	Ala	Val	Gln	Gly	Trp	Ala	Ala	Arg	Ser	Trp	Leu	Pro
				165					170					175	
Ala	Gly	Cys	Glu	Thr	Ala	Ile	Leu	Phe	Pro	Met	Arg	Ser	Lys	Lys	Ile
			180					185					190		
Phe	Gly	Ser	Val	His	Pro	Val	Arg	Pro	Met	Arg	Leu	Glu	Ser	Phe	Ser
		195					200					205			
Ala	Cys	Ile	Trp	Val	Lys	Ala	Thr	Asp	Val	Leu	Asn	Lys	Thr	Ile	Leu
		210				215					220				
Phe	Ser	Tyr	Gly	Thr	Lys	Arg	Asn	Pro	Tyr	Glu	Ile	Gln	Leu	Tyr	Leu
225					230					235					240
Ser	Tyr	Gln	Ser	Ile	Val	Phe	Val	Val	Gly	Gly	Glu	Glu	Asn	Lys	Leu
				245					250					255	
Val	Ala	Glu	Ala	Met	Val	Ser	Leu	Gly	Arg	Trp	Thr	His	Leu	Cys	Gly
			260					265					270		
Thr	Trp	Asn	Ser	Glu	Glu	Gly	Leu	Thr	Ser	Leu	Trp	Val	Asn	Gly	Glu
		275					280					285			
Leu	Ala	Ala	Thr	Thr	Val	Glu	Met	Ala	Thr	Gly	His	Ile	Val	Pro	Glu
						295					300				
Gly	Gly	Ile	Leu	Gln	Ile	Gly	Gln	Glu	Lys	Asn	Gly	Cys	Cys	Val	Gly
305					310					315					320
Gly	Gly	Phe	Asp	Glu	Thr	Leu	Ala	Phe	Ser	Gly	Arg	Leu	Thr	Gly	Phe
			325						330					335	
Asn	Ile	Trp	Asp	Ser	Val	Leu	Ser	Asn	Glu	Glu	Ile	Arg	Glu	Thr	Gly
			340					345					350		
Gly	Ala	Glu	Ser	Cys	His	Ile	Arg	Gly	Asn	Ile	Val	Gly	Trp	Gly	Val
		355					360					365			
Thr	Glu	Ile	Gln	Pro	His	Gly	Gly	Ala	Gln	Tyr	Val	Ser			
	370					375					380				

<210> 16
 <211> 44
 <212> PRT
 <213> Artificial sequence

<220>
 <221>
 <222>
 <223> The 255th to 298th amino acid residues of Human sapiens PTX3 (KT44)

<400>	16														
Lys	Leu	Val	Ala	Glu	Ala	Met	Val	Ser	Leu	Gly	Arg	Trp	Thr	His	Leu
1				5					10					15	
Cys	Gly	Thr	Trp	Asn	Ser	Glu	Glu	Gly	Leu	Thr	Ser	Leu	Trp	Val	Asn
			20					25					30		
Gly	Glu	Leu	Ala	Ala	Thr	Thr	Val	Glu	Met	Ala	Thr				
		35					40								

<210> 17

<211> 40
 <212> PRT
 <213> Artificial sequence

 <220>
 <221>
 <222>
 <223> The 320th to 359th amino acid residues of Human sapiens PTX3 (GI40)

<400> 17
 Gly Gly Gly Phe Asp Glu Thr Leu Ala Phe Ser Gly Arg Leu Thr Gly
 1 5 10 15
 Phe Asn Ile Trp Asp Ser Val Leu Ser Asn Glu Glu Ile Arg Glu Thr
 20 25 30
 Gly Gly Ala Glu Ser Cys His Ile
 35 40

<210> 18
 <211> 10
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR1 of VH domain of PTX3 monoclonal antibody

<400> 18
 Asp Phe Asn Ile Lys His Thr Tyr Leu His
 1 5 10

<210> 19
 <211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR2 of VH domain of PTX3 monoclonal antibody

<400> 19
 Arg Ile Asp Pro Ala Asn Asp Asn Thr Lys Tyr Asp Pro Met Phe Gln
 1 5 10 15
 Gly
 17

<210> 20
 <211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR2 of VH domain of PTX3 monoclonal antibody

 <400> 20
 Arg Ile Asp Pro Ala Asn Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln
 1 5 10 15
 Gly
 17

<210> 21
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR3 of VH domain of PTX3 monoclonal antibody

 <400> 21
 Ala Arg Val Thr Thr Val Val Gly Phe Asp Tyr
 1 5 10

<210> 22
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR1 of VL domain of PTX3 monoclonal antibody

 <400> 22
 Thr Ala Ser Ser Ser Val Ile Ser Thr Tyr Leu Asn
 1 5 10

<210> 23
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR2 of VL domain of PTX3 monoclonal antibody

 <400> 23

Ser Thr Ser Asn Leu Ala Ser
1 5

<210> 24
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<221> V_segment
<222>
<223> CDR3 of VL domain of PTX3 monoclonal antibody

<400> 24
His Gln Phe Gln Arg Ser Pro Leu Thr
1 5

<210> 25
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<221> V_segment
<222>
<223> CDR3 of VL domain of PTX3 monoclonal antibody

<400> 25
His Gln Tyr Gln Arg Ser Pro Leu Thr
1 5

<210> 26
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<221> V_segment
<222>
<223> CDR1 nucleic acid sequence of VH domain of PTX3 monoclonal antibody

<400> 26
gacttcaaca ttaaacatac ctatctgcac 30

<210> 27
<211> 51
<212> DNA
<213> Artificial sequence

<220>

<221> V_segment
 <222>
 <223> CDR2 nucleic acid sequence of VH domain of PTX3 monoclonal antibody

 <400> 27
 aggattgatc ctgcgaatgg tgatactaaa tatgaccga agttccaggg c 51

 <210> 28
 <211> 51
 <212> DNA
 <213> Artificial sequence

 <220>
 <221> V_segment
 <222>
 <223> CDR2 nucleic acid sequence of VH domain of PTX3 monoclonal antibody

 <400> 28
 aggattgatc ctgcgaatga taatactaaa tatgaccga tgttccaggg c 51

 <210> 29
 <211> 33
 <212> DNA
 <213> Artificial sequence

 <220>
 <221> V_segment
 <222>
 <223> CDR3 nucleic acid sequence of VH domain of PTX3 monoclonal antibody

 <400> 29
 gctagagtta ctacggttgt aggctttgac tac 33

 <210> 30
 <211> 27
 <212> DNA
 <213> Artificial sequence

 <220>
 <221> V_segment
 <222>
 <223> CDR1 nucleic acid sequence of VL domain of PTX3 monoclonal antibody

 <400> 30
 actgccagct caagtgtaat ttccact 27

 <210> 31
 <211> 21
 <212> DNA
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR2 nucleic acid sequence of VL domain of PTX3 monoclonal antibody

<400> 31
 agcacatcca acctggcttc t 21

<210> 32
 <211> 27
 <212> DNA
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR3 nucleic acid sequence of VL domain of PTX3 monoclonal antibody

<400> 32
 caccagtttc agcgttcccc gctcacg

<210> 33
 <211> 27
 <212> DNA
 <213> Artificial sequence

<220>
 <221> V_segment
 <222>
 <223> CDR3 nucleic acid sequence of VL domain of PTX3 monoclonal antibody

<400> 33
 caccagtatc agcgttcccc gctcacg

<210> 34
 <211> 118
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_region
 <222>
 <223> VH domain of PTX3 monoclonal antibody

<400> 34
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Thr Ala Ser Asp Phe Asn Ile Lys His Thr
 20 25 30
 Tyr Leu His Trp Val Leu Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile

		35					40					45					
Gly	Arg	Ile	Asp	Pro	Ala	Asn	Gly	Asp	Thr	Lys	Tyr	Asp	Pro	Lys	Phe		
	50					55					60						
Gln	Gly	Lys	Ala	Thr	Ile	Thr	Ala	Asp	Thr	Ser	Ser	Asn	Thr	Ala	Tyr		
65					70					75					80		
Leu	His	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85					90						95			
Ala	Arg	Val	Thr	Val	Val	Gly	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr			
	100						105					110					
Thr	Leu	Thr	Val	Ser	Ser												
	115																

<210> 35
 <211> 118
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_region
 <222>
 <223> VH domain of PTX3 monoclonal antibody

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

<210> 36
 <211> 109
 <212> PRT
 <213> Artificial sequence

<220>
 <221> V_region
 <222>
 <223> VL domain of PTX3 monoclonal antibody

Gln	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Ile	Met	Ser	Thr	Ser	Leu	Gly		

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

<210> 37

<211> 109

<212> PRT

<213> Artificial sequence

<220>

<221> V_region

<222>

<223> VL domain of PTX3 monoclonal antibody

<400> 37

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

<210> 38

<211> 354

<212> DNA

<213> Artificial sequence

<220>

<221> CDS

<222>

<223> VH domain nucleic acid sequence of PTX3 monoclonal antibody

<400> 38

gaggttcagc tgcagcagtc tggggcagag cttgtgaagc caggggcctc agtcaagttg 60
tcctgcacag cttctgactt caacattaaa catacctatc tgcactgggt gctccagagg 120

```

cctgaacagg gcctggagtg gattggaagg attgatacctg cgaatgataa tactaaatat 180
gacccgatgt tccagggcaa ggccactata acagcagaca catcctccaa cacagcctac 240
ctgcacctca gcagcctgac atctgaggac actgccgtct attactgtgc tagagttact 300
acggtttag gctttgacta ctggggccaa ggcaccactc tcacagtctc ctca 354

```

<210> 39
 <211> 354
 <212> DNA
 <213> Artificial sequence

<220>
 <221> CDS
 <222>
 <223> VH domain nucleic acid sequence of PTX3 monoclonal antibody

```

<400> 39
gaggttcagc tgcagcagtc tggggcagag cttgtgaagc caggggcctc agtcaagttg 60
tcctgcacag cttctgactt caacattaaa catacctatc tgcactgggt gctccagagg 120
cctgaacagg gcctggagtg gattggaagg attgatacctg cgaatgggtga tactaaatat 180
gacccgaagt tccagggcaa ggccactata acagcagaca catcctccaa cacagcctac 240
ctgcacctca gcagcctgac atctgaggac actgccgtct attactgtgc tagagttact 300
acggtttag gctttgacta ctggggccaa ggcaccactc tcacagtctc ctca 354

```

<210> 40
 <211> 327
 <212> DNA
 <213> Artificial sequence

<220>
 <221> CDS
 <222>
 <223> VL domain nucleic acid sequence of PTX3 monoclonal antibody

```

<400> 40
caaattgttc tcaccagtc tccagcaatc atgtctacat ctctagggga acgggtcacc 60
atgacctgca ctgccagtc aagtgttaatt tccacttact tgaactggta ccagcagaag 120
ccaggatcct cccccaact ctggatttat agcacatcca acctggcttc tggagtcca 180
gctcgcttca gtggcagtgg gtctgggacc tcttactctc tcacaatcag tagcatggag 240
gctgaagatg ctgccactta tttctgccac cagtttcagc gttccccgct cacgttcggt 300
gctgggacca agctggagct gaaacgg 327

```

<210> 41
 <211> 327
 <212> DNA
 <213> Artificial sequence

<220>
 <221> CDS
 <222>
 <223> VL domain nucleic acid sequence of PTX3 monoclonal antibody

<400> 41

```
caaattgttc tcacccagtc tccagcaatc atgtctacat ctctagggga acgggtcacc 60
atgacctgca ctgccagctc aagtgttaatt tccacttact tgaactggta ccagcagaag 120
ccaggatcct cccccaaact ctggatttat agcacatcca acctggcttc tggagtcca 180
gctcgcttca gtggcagtgg gtctgggacc tcttactctc tcacaatcag tagcatggag 240
gctgaagatg ctgccactta tttctgccac cagtatcagc gttccccgct cacgttcggt 300
gctgggacca agctggagct gaaacgg                                     327
```