

SEQUENCE LISTING

<110> LIB Therapeutics, LLC
 <120> Compositions Comprising PCSK9-Binding Molecules and Methods of Use
 <130> 114170-5004 (LIB-004PC)
 <140> PCT/US19/32710
 <141> 2019-05-16
 <160> 3
 <170> PatentIn version 3.5
 <210> 1
 <211> 96
 <212> PRT
 <213> Artificial sequence
 <220>
 <223> PCSK9-binding motif
 <400> 1

Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1 5 10 15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Glu Gly Tyr Gly Tyr Tyr
 20 25 30

Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
 35 40 45

Thr Val Pro Val Ser Lys Gly Thr Ala Thr Ile Ser Gly Leu Lys Pro
 50 55 60

Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Glu Phe Asp Phe Pro
 65 70 75 80

Gly Ala Gly Tyr Tyr His Arg Pro Ile Ser Ile Asn Tyr Arg Thr Glu
 85 90 95

<210> 2
 <211> 585
 <212> PRT
 <213> Homo sapiens

<400> 2

Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu
1 5 10 15

Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln
20 25 30

Gln Ala Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
35 40 45

Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
50 55 60

Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
85 90 95

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu
100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
130 135 140

Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
145 150 155 160

Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
165 170 175

Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
180 185 190

Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu
195 200 205

Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro
210 215 220

Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
225 230 235 240

Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
245 250 255

Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
260 265 270

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
275 280 285

Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
290 295 300

Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
305 310 315 320

Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
325 330 335

Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
340 345 350

Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
355 360 365

Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
370 375 380

Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
385 390 395 400

Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
405 410 415

Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys

420

425

430

Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
 435 440 445

Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
 450 455 460

Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
 465 470 475 480

Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr
 485 490 495

Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
 500 505 510

Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
 515 520 525

Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu
 530 535 540

Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys
 545 550 555 560

Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
 565 570 575

Ala Ala Ser Gln Ala Ala Leu Gly Leu
 580 585

<210> 3

<211> 687

<212> PRT

<213> Artificial sequence

<220>

<223> PCSK9-binding polypeptide

<400> 3

Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr

1	5	10	15
Ser	Leu	Leu	Ile
	20		
Ser	Trp	Asp	Ala
		25	
Pro	Ala	Glu	Gly
			30
Tyr	Gly	Tyr	Tyr
Arg	Ile	Thr	Tyr
	35		
Gly	Glu	Thr	Gly
		40	
Gly	Asn	Ser	Pro
			45
Val	Gln	Glu	Phe
Thr	Val	Pro	Val
	50		
Ser	Lys	Gly	Thr
		55	
Ala	Thr	Ile	Ser
			60
Gly	Leu	Lys	Pro
Gly	Val	Asp	Tyr
	65		
Thr	Ile	Thr	Val
	70		
Tyr	Ala	Val	Glu
		75	
Phe	Asp	Phe	Pro
			80
Gly	Ala	Gly	Tyr
Tyr	His	Arg	Pro
	85		
Ile	Ser	Ile	Asn
	90		
Tyr	Arg	Thr	Glu
		95	
Gly	Ser	Gly	Ser
	100		
Asp	Ala	His	Lys
		105	
Ser	Glu	Val	Ala
			110
His	Arg		
Phe	Lys	Asp	Leu
	115		
Gly	Glu	Glu	Asn
			120
Phe	Lys	Ala	Leu
			125
Val	Leu	Ile	Ala
Phe	Ala	Gln	Tyr
	130		
Leu	Gln	Gln	Ala
		135	
Pro	Phe	Glu	Asp
			140
His	Val	Lys	Leu
Val	Asn	Glu	Val
	145		
Thr	Glu	Phe	Ala
	150		
Lys	Thr	Cys	Val
		155	
Ala	Asp	Glu	Ser
			160
Ala	Glu	Asn	Cys
Asp	Lys	Ser	Leu
	165		
His	Thr	Leu	Phe
		170	
Gly	Asp	Lys	Leu
		175	
Cys	Thr	Val	Ala
	180		
Thr	Leu	Arg	Glu
			185
Tyr	Gly	Glu	Met
			190
Ala	Asp	Cys	
Cys	Ala	Lys	Gln
	195		
Glu	Pro	Glu	Arg
			200
Asn	Glu	Cys	Phe
			205
Leu	Gln	His	Lys
Asp	Asp	Asn	Pro
	210		
Leu	Pro	Arg	Leu
			215
Val	Arg	Pro	Glu
			220
Val	Asp	Val	

Met Cys Thr Ala Phe His Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr
225 230 235 240

Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu
245 250 255

Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln
260 265 270

Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg
275 280 285

Asp Glu Gly Lys Ala Ser Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser
290 295 300

Leu Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ala Val Ala Arg
305 310 315 320

Leu Ser Gln Arg Phe Pro Lys Ala Glu Phe Ala Glu Val Ser Lys Leu
325 330 335

Val Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp Leu
340 345 350

Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu
355 360 365

Asn Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro
370 375 380

Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu Met
385 390 395 400

Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys Asp
405 410 415

Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly Met Phe
420 425 430

Leu Tyr Glu Tyr Ala Arg Arg His Pro Asp Tyr Ser Val Val Leu Leu

435

440

445

Leu Arg Leu Ala Lys Thr Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala
 450 455 460

Ala Ala Asp Pro His Glu Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys
 465 470 475 480

Pro Leu Val Glu Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu
 485 490 495

Phe Glu Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg
 500 505 510

Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu Val
 515 520 525

Ser Arg Asn Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His Pro Glu
 530 535 540

Ala Lys Arg Met Pro Cys Ala Glu Asp Tyr Leu Ser Val Val Leu Asn
 545 550 555 560

Gln Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Asp Arg Val Thr
 565 570 575

Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala
 580 585 590

Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr
 595 600 605

Phe Thr Phe His Ala Asp Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln
 610 615 620

Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys Pro Lys
 625 630 635 640

Ala Thr Lys Glu Gln Leu Lys Ala Val Met Asp Asp Phe Ala Ala Phe
 645 650 655

Val Glu Lys Cys Cys Lys Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu
660 665 670

Glu Gly Lys Lys Leu Val Ala Ala Ser Gln Ala Ala Leu Gly Leu
675 680 685