

N1102PCT\_sequ.list..txt  
SEQUENCE LISTING

<110> Max-Planck-Gesellschaft zur Förderung der Wissenschaften  
e.V.

<120> Means and methods for treating peripheral and cardiovascular  
diseases via modulation of arteriogenesis

<130> N1102 PCT

<150> EP 07 01 7091.5

<151> 2007-08-31

<160> 2

<170> PatentIn version 3.3

<210> 1

<211> 3254

<212> DNA

<213> homo sapiens

<400> 1

ccggccggga ttcaggaagc gcggatctcc cggccgccgg cggccagccg tcccggaggc	60
tgagcagtgc agacgggcct ggggcaggca tggcggattc cagcgaaggc ccccgcgagg	120
ggcccgggga ggtggctgag ctccccgggg atgagagtgg caccaggt ggggaggctt	180
ttcctctctc ctccctggcc aatctgtttg agggggagga tggctccctt tcgcccctac	240
cggctgatgc cagtcgccct gctggcccag gcgatgggag accaaatctg cgcatgaagt	300
tccagggcgc cttccgcaag ggggtgccca accccatcga tctgctggag tccaccctat	360
atgagtcctc ggtggtgcct gggcccaaga aagcaccat ggactcactg tttgactacg	420
gcacctatcg tcaccactcc agtgacaaca agaggtggag gaagaagatc atagagaagc	480
agccgcagag ccccaaagcc cctgcccctc agccgcccc caccctcaaa gtcttcaacc	540
ggcctatcct ctttgacatc gtgtcccgagg gctccactgc tgacctggac gggctgctcc	600
cattcttgct gaccacaag aaacgcctaa ctgatgagga gtttcgagag ccatctacgg	660
ggaagacctg cctgcccag gccttgctga acctgagcaa tggccgcaac gacaccatcc	720
ctgtgctgct ggacatcgcg gagcgcaccg gcaacatgag ggagttcatt aactcgccct	780
tccgtgacat ctactatcga ggtcagacag ccctgcacat cgccattgag cgtcgctgca	840
aacactacgt ggaacttctc gtggcccagg gagctgatgt ccacgcccag gcccggtggc	900
gcttcttcca gcccaaggat gaggggggct acttctactt tggggagctg cccctgtcgc	960
tggctgcttg caccaaccag cccacattg tcaactacct gacggagaac cccacaaga	1020
aggcggacat gcggcgccag gactcgcgag gcaacacagt gctgcatgag ctggtggcca	1080
ttgctgacaa caccgtgag aacaccaagt ttgttaccaa gatgtacgac ctgctgctgc	1140
tcaagtgtgc ccgcctcttc cccgacagca acctggaggc cgtgctcaac aacgacggcc	1200
tctcgcccct catgatggct gccaaagcgg gcaagattgg gatctttcag cacatcatcc	1260

N1102PCT\_sequ.list..txt

ggcgggaggt	gacggatgag	gacacacggc	acctgtcccg	caagttcaag	gactgggcct	1320
atgggccagt	gtattcctcg	ctttatgacc	tctcctccct	ggacacgtgt	ggggaagagg	1380
cctccgtgct	ggagatcctg	gtgtacaaca	gcaagattga	gaaccgccac	gagatgctgg	1440
ctgtggagcc	catcaatgaa	ctgctgcggg	acaagtggcg	caagttcggg	gccgtctcct	1500
tctacatcaa	cgtggtctcc	tacctgtgtg	ccatgggtcat	cttcactctc	accgcctact	1560
accagccgct	ggagggcaca	ccgccgtacc	cttaccgcac	cacggtggac	tacctgcggc	1620
tggctggcga	ggtcattacg	ctcttcactg	gggtcctggt	cttcttcacc	aacatcaaag	1680
acttgttcat	gaagaaatgc	cctggagtga	attctctctt	cattgatggc	tccttccagc	1740
tgctctactt	catctactct	gtcctgggtga	tcgtctcagc	agccctctac	ctggcagggg	1800
tcgaggccta	cctggccgtg	atgggtctttg	ccctggtcct	gggctggatg	aatgcccttt	1860
acttcacccg	tgggctgaag	ctgacgggga	cctatagcat	catgatccag	aagattctct	1920
tcaaggacct	tttccgattc	ctgctcgtct	acttgctctt	catgatcggc	tacgcttcag	1980
ccctggtctc	cctcctgaac	ccgtgtgcc	acatgaaggt	gtgcaatgag	gaccagacca	2040
actgcacagt	gccacttac	ccctcgtgcc	gtgacagcga	gaccttcagc	accttccctc	2100
tggacctgtt	taagctgacc	atcggcatgg	gcgacctgga	gatgctgagc	agcaccaagt	2160
accccggtgt	cttcatcatc	ctgctgggtga	cctacatcat	cctcaccttt	gtgctgctcc	2220
tcaacatgct	cattgccctc	atgggcgaga	cagtgggcca	ggtctccaag	gagagcaagc	2280
acatctggaa	gctgcagtgg	gccaccacca	tcctggacat	tgagcgctcc	ttccccgtat	2340
tcctgaggaa	ggccttcgc	tctggggaga	tggtcacctg	gggcaagagc	tcggacggca	2400
ctcctgaccg	cagggtggtg	ttcagggtgg	atgagggtgaa	ctgggtctcac	tggaaccaga	2460
acttgggcat	catcaacgag	gacccgggca	agaatgagac	ctaccagtat	tatggcttct	2520
cgcataccgt	gggccgcctc	cgcagggtac	gctgggtcctc	ggtggtaccc	cgcgtgggtg	2580
aactgaacaa	gaactcgaac	ccggacgagg	tggtggtgcc	tctggacagc	atggggaacc	2640
cccgtgcga	tggccaccag	cagggttacc	ccgcaagtg	gaggactgat	gacgccccgc	2700
tctagggact	gcagcccagc	cccagcttct	ctgcccactc	atctctagtc	cagccgcatt	2760
tcagcagtgc	cttctggggg	gtccccccac	acctgctttt	ggccccagag	gcgagggacc	2820
agtggaggtg	ccagggaggc	cccaggaccc	tgtggtcccc	tggtcttgcc	tccccacctt	2880
gggggtgggg	ctcccggcca	cctgtcttgc	tcctatggag	tcacataagc	caacgccaga	2940
gcccctccac	ctcaggcccc	agccccctgc	tctccattat	ttatttgctc	tgctctcagg	3000
aagcgacgtg	accctgccc	cagctggaac	ctggcagagg	ccttaggacc	ccgttccaag	3060
tgcactgccc	ggccaagccc	cagcctcagc	ctgcgcctga	gctgcatgcg	ccaccatttt	3120
tggcagcgtg	gcagctttgc	aaggggctgg	ggccctcggc	gtggggccat	gccttctgtg	3180

N1102PCT\_sequ.list..txt

tgttctgtag tgtctgggat ttgccggtgc tcaataaatg tttattcatt gacggtgaaa 3240  
 aaaaaaaaaa aaaa 3254

<210> 2  
 <211> 871  
 <212> PRT  
 <213> homo sapiens  
 <400> 2

Met Ala Asp Ser Ser Glu Gly Pro Arg Ala Gly Pro Gly Glu Val Ala  
 1 5 10 15

Glu Leu Pro Gly Asp Glu Ser Gly Thr Pro Gly Gly Glu Ala Phe Pro  
 20 25 30

Leu Ser Ser Leu Ala Asn Leu Phe Glu Gly Glu Asp Gly Ser Leu Ser  
 35 40 45

Pro Ser Pro Ala Asp Ala Ser Arg Pro Ala Gly Pro Gly Asp Gly Arg  
 50 55 60

Pro Asn Leu Arg Met Lys Phe Gln Gly Ala Phe Arg Lys Gly Val Pro  
 65 70 75 80

Asn Pro Ile Asp Leu Leu Glu Ser Thr Leu Tyr Glu Ser Ser Val Val  
 85 90 95

Pro Gly Pro Lys Lys Ala Pro Met Asp Ser Leu Phe Asp Tyr Gly Thr  
 100 105 110

Tyr Arg His His Ser Ser Asp Asn Lys Arg Trp Arg Lys Lys Ile Ile  
 115 120 125

Glu Lys Gln Pro Gln Ser Pro Lys Ala Pro Ala Pro Gln Pro Pro Pro  
 130 135 140

Ile Leu Lys Val Phe Asn Arg Pro Ile Leu Phe Asp Ile Val Ser Arg  
 145 150 155 160

Gly Ser Thr Ala Asp Leu Asp Gly Leu Leu Pro Phe Leu Leu Thr His  
 165 170 175

Lys Lys Arg Leu Thr Asp Glu Glu Phe Arg Glu Pro Ser Thr Gly Lys  
 180 185 190

Thr Cys Leu Pro Lys Ala Leu Leu Asn Leu Ser Asn Gly Arg Asn Asp  
 195 200 205

N1102PCT\_sequ.list..txt

Thr	Ile	Pro	Val	Leu	Leu	Asp	Ile	Ala	Glu	Arg	Thr	Gly	Asn	Met	Arg	210	215	220
Glu	Phe	Ile	Asn	Ser	Pro	Phe	Arg	Asp	Ile	Tyr	Tyr	Arg	Gly	Gln	Thr	225	230	235
Ala	Leu	His	Ile	Ala	Ile	Glu	Arg	Arg	Cys	Lys	His	Tyr	Val	Glu	Leu	245	250	255
Leu	Val	Ala	Gln	Gly	Ala	Asp	Val	His	Ala	Gln	Ala	Arg	Gly	Arg	Phe	260	265	270
Phe	Gln	Pro	Lys	Asp	Glu	Gly	Gly	Tyr	Phe	Tyr	Phe	Gly	Glu	Leu	Pro	275	280	285
Leu	Ser	Leu	Ala	Ala	Cys	Thr	Asn	Gln	Pro	His	Ile	Val	Asn	Tyr	Leu	290	295	300
Thr	Glu	Asn	Pro	His	Lys	Lys	Ala	Asp	Met	Arg	Arg	Gln	Asp	Ser	Arg	305	310	315
Gly	Asn	Thr	Val	Leu	His	Ala	Leu	Val	Ala	Ile	Ala	Asp	Asn	Thr	Arg	325	330	335
Glu	Asn	Thr	Lys	Phe	Val	Thr	Lys	Met	Tyr	Asp	Leu	Leu	Leu	Leu	Lys	340	345	350
Cys	Ala	Arg	Leu	Phe	Pro	Asp	Ser	Asn	Leu	Glu	Ala	Val	Leu	Asn	Asn	355	360	365
Asp	Gly	Leu	Ser	Pro	Leu	Met	Met	Ala	Ala	Lys	Thr	Gly	Lys	Ile	Gly	370	375	380
Ile	Phe	Gln	His	Ile	Ile	Arg	Arg	Glu	Val	Thr	Asp	Glu	Asp	Thr	Arg	385	390	395
His	Leu	Ser	Arg	Lys	Phe	Lys	Asp	Trp	Ala	Tyr	Gly	Pro	Val	Tyr	Ser	405	410	415
Ser	Leu	Tyr	Asp	Leu	Ser	Ser	Leu	Asp	Thr	Cys	Gly	Glu	Glu	Ala	Ser	420	425	430
Val	Leu	Glu	Ile	Leu	Val	Tyr	Asn	Ser	Lys	Ile	Glu	Asn	Arg	His	Glu	435	440	445
Met	Leu	Ala	Val	Glu	Pro	Ile	Asn	Glu	Leu	Leu	Arg	Asp	Lys	Trp	Arg	450	455	460

N1102PCT\_sequ.list..txt

Lys	Phe	Gly	Ala	Val	Ser	Phe	Tyr	Ile	Asn	Val	Val	Ser	Tyr	Leu	Cys	465	470	475	480
Ala	Met	Val	Ile	Phe	Thr	Leu	Thr	Ala	Tyr	Tyr	Gln	Pro	Leu	Glu	Gly	485	490	495	
Thr	Pro	Pro	Tyr	Pro	Tyr	Arg	Thr	Thr	Val	Asp	Tyr	Leu	Arg	Leu	Ala	500	505	510	
Gly	Glu	Val	Ile	Thr	Leu	Phe	Thr	Gly	Val	Leu	Phe	Phe	Phe	Thr	Asn	515	520	525	
Ile	Lys	Asp	Leu	Phe	Met	Lys	Lys	Cys	Pro	Gly	Val	Asn	Ser	Leu	Phe	530	535	540	
Ile	Asp	Gly	Ser	Phe	Gln	Leu	Leu	Tyr	Phe	Ile	Tyr	Ser	Val	Leu	Val	545	550	555	560
Ile	Val	Ser	Ala	Ala	Leu	Tyr	Leu	Ala	Gly	Ile	Glu	Ala	Tyr	Leu	Ala	565	570	575	
Val	Met	Val	Phe	Ala	Leu	Val	Leu	Gly	Trp	Met	Asn	Ala	Leu	Tyr	Phe	580	585	590	
Thr	Arg	Gly	Leu	Lys	Leu	Thr	Gly	Thr	Tyr	Ser	Ile	Met	Ile	Gln	Lys	595	600	605	
Ile	Leu	Phe	Lys	Asp	Leu	Phe	Arg	Phe	Leu	Leu	Val	Tyr	Leu	Leu	Phe	610	615	620	
Met	Ile	Gly	Tyr	Ala	Ser	Ala	Leu	Val	Ser	Leu	Leu	Asn	Pro	Cys	Ala	625	630	635	640
Asn	Met	Lys	Val	Cys	Asn	Glu	Asp	Gln	Thr	Asn	Cys	Thr	Val	Pro	Thr	645	650	655	
Tyr	Pro	Ser	Cys	Arg	Asp	Ser	Glu	Thr	Phe	Ser	Thr	Phe	Leu	Leu	Asp	660	665	670	
Leu	Phe	Lys	Leu	Thr	Ile	Gly	Met	Gly	Asp	Leu	Glu	Met	Leu	Ser	Ser	675	680	685	
Thr	Lys	Tyr	Pro	Val	Val	Phe	Ile	Ile	Leu	Leu	Val	Thr	Tyr	Ile	Ile	690	695	700	
Leu	Thr	Phe	Val	Leu	Leu	Leu	Asn	Met	Leu	Ile	Ala	Leu	Met	Gly	Glu	705	710	715	720

N1102PCT\_sequ.list..txt

Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile Trp Lys Leu Gln  
725 730 735

Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe Pro Val Phe Leu  
740 745 750

Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val Gly Lys Ser Ser  
755 760 765

Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val Asp Glu Val Asn  
770 775 780

Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn Glu Asp Pro Gly  
785 790 795 800

Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His Thr Val Gly Arg  
805 810 815

Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg Val Val Glu Leu  
820 825 830

Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro Leu Asp Ser Met  
835 840 845

Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr Pro Arg Lys Trp  
850 855 860

Arg Thr Asp Asp Ala Pro Leu  
865 870