

SEQUENCE LISTING

<110> The Queen's University of Belfast
 <120> A peptide for the delivery of anionic materials
 <130> P127635PC00
 <150> GB 1903132.7
 <151> 2019-03-08
 <160> 12
 <170> PatentIn version 3.5
 <210> 1
 <211> 15
 <212> PRT
 <213> Unknown
 <220>
 <223> Synthetic
 <400> 1

Cys	Arg	Arg	Arg	Trp	His	His	His	His	His	Trp	Arg	Arg	Arg	Cys
1				5					10					15

<210> 2
 <211> 15
 <212> PRT
 <213> Unknown
 <220>
 <223> Synthetic
 <400> 2

Cys	Trp	Arg	Arg	Arg	His	His	His	His	His	Arg	Arg	Arg	Trp	Cys
1				5					10					15

<210> 3
 <211> 15
 <212> PRT
 <213> Unknown
 <220>
 <223> Synthetic
 <400> 3

Cys	His	Arg	His	Arg	His	Arg	Trp	His	Arg	His	Arg	His	Arg	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
---	---	----	----

<210> 4
 <211> 15
 <212> PRT
 <213> Unknown

 <220>
 <223> Synthetic

 <400> 4

Cys	His	His	His	Arg	Arg	Arg	Trp	Arg	Arg	Arg	His	His	His	Cys
1				5					10					15

<210> 5
 <211> 11
 <212> PRT
 <213> Unknown

 <220>
 <223> Synthetic

 <400> 5

Cys	Arg	Arg	Arg	Arg	Trp	Arg	Arg	Arg	Arg	Cys
1				5					10	

<210> 6
 <211> 15
 <212> PRT
 <213> Unknown

 <220>
 <223> Synthetic

 <400> 6

Cys	Glu	His	His	Arg	Arg	Arg	Trp	Arg	Arg	Arg	His	His	Glu	Cys
1				5					10					15

<210> 7
 <211> 8
 <212> PRT
 <213> Unknown

 <220>
 <223> Synthetic

 <400> 7

Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 8
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 8

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 9
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 9

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 10
<211> 22
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 10

Cys His His His His His Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg
1 5 10 15

His His His His His Cys
20

<210> 11
<211> 21
<212> PRT

<213> Unknown

<220>

<223> Synthetic

<400> 11

His	His	His	His	His	Tyr	Gly	Arg	Lys	Lys	Arg	Arg	Gln	Arg	Arg	Arg
1				5					10				15		

His	His	His	His	His
				20

<210> 12

<211> 5936

<212> DNA

<213> Unknown

<220>

<223> Synthetic

<400> 12

gcgatcgagg	ctcccgacat	cttggaccat	tagctccaca	ggtatcttct	tccctctagt	60
ggtcataaca	gcagcttcag	ctacctctca	attcaaaaaa	cccctcaaga	cccgtttaga	120
ggccccaagg	ggttatgcta	tcaatcgttg	cgttacacac	acaaaaaacc	aacacacatc	180
catcttcgat	ggatagcgat	tttattatct	aactgctgat	cgagtgtagc	cagatctagt	240
aatcaattac	ggggtcatta	gttcatagcc	catatatgga	gttccgcggt	acataactta	300
cggtaaatgg	cccgccctggc	tgaccgcccc	acgacccccg	cccattgacg	tcaataatga	360
cgtatgttcc	catagtaacg	ccaataggga	ctttccattg	acgtcaatgg	gtggagtatt	420
tacggtaaac	tgcccacttg	gcagtacatc	aagtgtatca	tatgccaagt	acgcccccta	480
ttgacgtcaa	tgacggtaaa	tggcccgccct	ggcattatgc	ccagtacatg	accttatggg	540
actttcctac	ttggcagtac	atctacgtat	tagtcatcgc	tattaccatg	ctgatgcggt	600
tttggcagta	catcaatggg	cgtggatagc	ggtttgactc	acggggattt	ccaagtctcc	660
accccatgta	cgtcaatggg	agtttgtttt	ggcaccaaaa	tcaacgggac	tttccaaaat	720
gtcgtaacaa	ctccgcccc	ttgacgcaaa	tgggcggtag	gcgtgtacgg	tgggaggtct	780
atataagcag	agctgggtta	gtgaaccgtc	agatcagatc	tttgtcgaac	ctaccatcca	840
ctcgacacac	ccgccagcgg	ccgctgccaa	gcttccgagc	tctcgaattc	aaaggaggta	900

cccaccatgg aagatgccaa aaacattaag aaaggcccag cgccattcta cccactcgaa	960
gacgggaccg ctggcgagca gctgcataaa gccatgaagc gctacgccct ggtgcccggc	1020
accatcgcct ttaccgacgc acatatcgag gtggacatta cctacgccga gtacttcgag	1080
atgagcgttc ggctggcaga agctatgaag cgctatgggc tgaatacaaa ccatcggatc	1140
gtggtgtgta gcgagaatag cttgcagttc ttcatgcccg tgttgggtgc cctgttcac	1200
ggtgtggctg tggccccagc taacgacatc tacaacgagc gcgagctgct gaacagcatg	1260
ggcatcagcc agcccaccgt cgtattcgtg agcaagaaag ggctgcaaaa gatcctcaac	1320
gtgcaaaaga agctaccgat catacaaaag atcatcatca tggatagcaa gaccgactac	1380
cagggcttcc aaagcatgta caccttcgtg acttcccatt tgccaccggg cttcaacgag	1440
tacgacttcg tgcccagag cttcgaccgg gacaaaacca tcgccctgat catgaacagt	1500
agtggcagta ccggattgcc caagggcgta gccctaccgc accgcaccgc ttgtgtccga	1560
ttcagtcatg cccgcgaccc catcttcggc aaccagatca tccccgacac cgctatcctg	1620
agcgtgggtg catttcacca cggcttcggc atgttcacca cgctgggcta cttgatctgc	1680
ggctttcggg tcgtgctcat gtaccgcttc gaggaagagc tattcttgcg cagcttgcaa	1740
gactataaga ttcaatctgc cctgctggtg cccacactat ttagcttctt cgctaagagc	1800
actctcatcg acaagtacga cctaagcaac ttgcacgaga tcgccagcgg cggggcgccg	1860
ctcagcaagg aggtaggtga ggccgtggcc aaacgcttcc acctaccagg catccgccag	1920
ggctacggcc tgacagaaac aaccagcgcc attctgatca cccccgaagg ggacgacaag	1980
cctggcgag taggcaaggt ggtgcccttc ttcgaggcta aggtggtgga cttggacacc	2040
ggtaagacac tgggtgtgaa ccagcgcggc gagctgtgcg tccgtggccc catgatcatg	2100
agcggctacg ttaacaacc cgaggctaca aacgctctca tcgacaagga cggctggctg	2160
catagcggcg acatcgccta ctgggacgag gacgagcact tcttcatcgt ggaccggctg	2220
aagagcctga tcaaatacaa gggctaccag gtagccccag ccgaactgga gagcatcctg	2280
ctgcaacacc ccaacatctt cgacgccggg gtcgccggcc tgcccagca cgatgccggc	2340
gagctgcccg ccgcagtcgt cgtgctggaa cacggtaaaa ccatgaccga gaaggagatc	2400
gtggactatg tggccagcca ggttacaacc gccagaagc tgcgcggtgg tgttgtgttc	2460
gtggacgagg tgcctaaagg actgaccggc aagttggacg cccgcaagat ccgcgagatt	2520

ctcattaagg ccaagaaggg cggcaagatc gccgtctaga agttgtctcc tcctgcactg	2580
actgactgat acaatcgatt tctggatccg caggcctctg ctagcttgac tgactgagat	2640
acagcgtacc ttcagctcac agacatgata agatacattg atgagtttgg acaaaccaca	2700
actagaatgc agtgaaaaaa atgcttttatt tgtgaaattt gtgatgctat tgctttattt	2760
gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca ttttatgttt	2820
caggttcagg gggaggtgtg ggaggttttt taaagcaagt aaaacctcta caaatgtggt	2880
attggcccat ctctatcggg atcgtagcat aacccttgg ggctctaaa cgggtcttga	2940
ggggtttttt gtgcccctcg ggccggattg ctatctaccg gcattggcgc agaaaaaat	3000
gcctgatgcg acgctgcgcg tcttatactc ccacatatgc cagattcagc aacggatacg	3060
gcttcccaa cttgcccact tccatacgtg tcctccttac cagaaattta tccttaaggt	3120
cgtcagctat cctgcaggcg atctctcgat ttcgatcaag acattccttt aatggtcttt	3180
tctggacacc actaggggtc agaagtagtt catcaaactt tcttcctcc ctaatctcat	3240
tggttacctt gggctatcga aacttaatta accagtcaag tcagctactt ggcgagatcg	3300
acttgtctgg gtttcgacta cgctcagaat tgcgtcagtc aagttcgatc tggtccttgc	3360
tattgcaccc gttctccgat tacgagtttc atttaaataca tgtgagcaaa aggccagcaa	3420
aaggccagga accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgccccct	3480
gacgagcatc aaaaaatcg acgctcaagt cagaggtggc gaaacccgac aggactataa	3540
agataccagg cgtttcccc tggaagctcc ctctgtcgct ctctgttcc gaccctgccg	3600
cttaccggat acctgtccgc ctttctccct tcgggaagcg tggcgctttc tcatagctca	3660
cgctgtaggt atctcagttc ggtgtaggtc gttcgctcca agctgggctg tgtgcacgaa	3720
cccccgttc agcccgaccg ctgcgcctta tccggtaact atcgtcttga gtccaaccg	3780
gtaagacacg acttatcgcc actggcagca gccactggta acaggattag cagagcgagg	3840
tatgtaggcg gtgctacaga gttcttgaag tggtggccta actacggcta cactagaaga	3900
acagtatttg gtatctgcgc tctgctgaag ccagttacct tcggaaaaag agttggtagc	3960
tcttgatccg gcaaacaac caccgctggg agcggtggtt tttttgtttg caagcagcag	4020
attacgcgca gaaaaaagg atctcaagaa gatcctttga tcttttctac ggggtctgac	4080
gctcagtgga acgaaaactc acgttaaggg attttggtca tgagattatc aaaaaggatc	4140

ttcacctaga tccttttaaa ttaaaaaatga agtttttaaat caatctaaag tatatatgag	4200
taaacttgggt ctgacagtta ccaatgctta atcagtgagg cacctatctc agcgatctgt	4260
ctatttcgtt catccatagt tgcatttaaa tttccgaact ctccaaggcc ctcgtcggaa	4320
aatcttcaaa cctttcgtcc gatccatctt gcaggctacc tctcgaacga actatcgcaa	4380
gtctcttggc cggccttgcg ccttggctat tgcttggcag cgcctatcgc caggtattac	4440
tccaatcccg aatatccgag atcgggatca cccgagagaa gttcaaccta catcctcaat	4500
cccgatctat ccgagatccg aggaatatcg aaatcggggc ggccttggtg taccgagaac	4560
gatcctctca gtgcgagtct cgacgatcca tatcgttgct tggcagtcag ccagtcggaa	4620
tccagcttgg gaccaggaa gtccaatcgt cagatattgt actcaagcct ggtcacggca	4680
gcgtaccgat ctgttttaaac ctagatattg atagtctgat cgggtcaacgt ataatcgagt	4740
cctagctttt gcaaacatct atcaagagac aggatcagca ggaggctttc gcatgagtat	4800
tcaacatttc cgtgtcgccc ttattccctt ttttgcggca ttttgccttc ctgtttttgc	4860
tcaccagaa acgctggtga aagtaaaaga tgctgaagat cagttgggtg cgcgagtggg	4920
ttacatcgaa ctggatctca acagcggtaa gatccttgag agttttcgcc ccgaagaacg	4980
ctttccaatg atgagcactt ttaaagttct gctatgtggc gcggtattat cccgtattga	5040
cgccgggcaa gagcaactcg gtcgccgcat acactattct cagaatgact tggttgagta	5100
ttcaccagtc acagaaaagc atcttacgga tggcatgaca gtaagagaat tatgcagtgc	5160
tgccataacc atgagtgata aactgcggc caacttactt ctgacaacga ttggaggacc	5220
gaaggagcta accgcttttt tgcacaacat gggggatcat gtaactcgcc ttgatcgttg	5280
ggaaccggag ctgaatgaag ccataccaaa cgacgagcgt gacaccacga tgcctgtagc	5340
aatggcaaca accttgcgta aactattaac tggcgaacta cttactctag cttcccggca	5400
acagttgata gactggatgg aggcggataa agttgcagga ccacttctgc gctcggccct	5460
tccggctggc tggttttattg ctgataaatc tggagccggt gagcgtgggt ctcgcggtat	5520
cattgcagca ctggggccag atggtaagcc ctcccgtatc gtagttatct acacgacggg	5580
gagtcaggca actatggatg aacgaaatag acagatcgct gagataggtg cctcactgat	5640
taagcattgg taaccgattc taggtgcatt ggcgcagaaa aaaatgcctg atgcgacgct	5700
gcgcgtctta tactcccaca tatgccagat tcagcaacgg atacggcttc cccaacttgc	5760

ccacttccat acgtgtcctc cttaccagaa atttatcctt aagatcccga atcgttttaa	5820
ctcgactctg gctctatcga atctccgtcg tttcgagctt acgcgaacag ccgtggcgct	5880
catttgctcg tcgggcatcg aatctcgtca gctatcgtca gcttaccttt ttggca	5936