

SEQUENCE LISTING

<110> Creative Biosciences (Guangzhou) Co., LTD.

<120> Tumor Detection Reagent and Kit

<130> PT20202729-DF-P

<150> CN202010361690.9

<151> 2020-04-30

<160> 83

<170> SIPOSequenceListing 1.0

<210> 1

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<223> nuclear acid fragment 1 sequence

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aattcacacg ctctcgggcg cacggaaact acttgtcagg aaattttcaa cgctcctcct	180
cgccccacttt ttccactcc tttcctggcg cgccccctcc cctcccagag gcacgcagtg	240
gagcttttgg agtttcgaat ctttcggaca ctgcagaatg cggggctccc cgggcgcggg	300
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caattc	366

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<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> nuclear acid fragment 2 sequence

<400> 2

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gcgagagtca ggctcggggt tccaaccacg cggcccgcag acgagcctcc gacccggatt	180
tctgaaggga ggggtggact gcgctgcgtt ctgaggggtc cggaagtctg gacatggtga	240
ctgaaggagg gtgacgtggt cagataaggg gccgggggca aagggaagcg gccaagagct	300
ccagcgtcgc cagtggagcc gggaggcgcg tgcagcgcca gcggaggagg aggatcccgg	360
agcccaaggc ag	372

<210> 3

<211> 213

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<213> Homo sapiens

<220>

<223> nuclear acid fragment 3 sequence

<400> 3

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cggcagaagc	ggggagctgg	gcctgcttgg	gccttatggg	gctgcggcgt	gggagggact	180
ctggtgtccg	tttatggcca	gttgcaagg	cga			213

<210> 4

<211> 1051

<212> DNA

<213> Homo sapiens

<220>

<223> nuclear acid fragment 4 sequence

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tggagctgcg	ctcggagctg	cccagcgtgc	ccggcgcggc	gacggcgggc	gcggcaacag	180
cgacggggcc	gcctgtggcg	tcggtggcgt	cggtagggcg	agccgcggcg	gccgctgcat	240
cgtaccgggt	gagcgtggca	ggcggcttgc	tgcgggggcc	gccactgttg	ctgcgggcag	300
ccgagaagta	cccgcggacc	cccaagtgcg	cgcgctgtcg	caaccatggc	gtggtgtcgg	360
ccctcaaggg	ccacaaacgc	tactgtcgct	ggaaggactg	cctgtgcgcc	aagtgcacgc	420
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gcgccgccga	cggcggggga	cctggagcgg	gagcgccgc	ggggaccgga	ggcggagcag	660
ctggcgcagg	gggtcaggt	gagagcgcg	ccaggccgca	ggtaggggca	gcaggatcgt	720
agctctgggg	cacggggccc	aggggcttgt	ctcggttcag	aaagagtaga	acccccgtgt	780
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<212> DNA

<213> Homo sapiens

<220>

<223> nuclear acid fragment 5 sequence

<400> 5

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cgacggcgca	gactcggggc	ccgggacgtc	gtccccagag	gtgcggcccg	gctcaggctc	180
ggagaacggc	gatggcgagt	ccttttctgg	ttcgccccta	gctcgggcct	ccaaagaggc	240
aggtggcagc	tgcccaggca	gcgctggccc	tggcggcggc	ggcaggagg	acagcccggg	300
ctccgctagc	cctctgggct	ctgaatccgg	ttcagaggct	gacaaagaag	agggtgaggc	360

cgcgccggcg	ccagggctgg	gcggaggctc	gggtccacgg	cagcggacgc	cgctggatat	420
cttgacacgc	gtgttcccag	gccaccggcg	aggcgtcctg	gagctggtgt	tgcagggctg	480
cggcggcgac	gtggtgcagg	ccatcgagca	ggtgctgaac	caccaccgtg	ggggcctggc	540
ggccggcctg	ggccctgcgg	cgccccaga	taaggccgcc	gtgggtgctg	cagcagctgc	600
agacgacgcg	tggcccagcc	gcgtcgacgc	cgccgccgcc	gccgccgccg	ccgccggggg	660
gcctgggctg	cctgcgccgc	tgcaggcggg	gcccgccgca	cctccgcacc	acagaccctt	720
gctggccggc	gccatggcgc	ctggggcgct	gggctcgctg	agcagccgct	cggccttctc	780
gccgctgcag	cccaacgcc	gtcacttcgg	tgccgacgcg	ggcgcctacc	cgctgggcgc	840
gccgctcggc	ctcagcccc	tgcgcctggc	ctactccgcg	gcggcggcgc	acagccgcgg	900
tctggccttc	atggcgccct	actccactgc	cggcttggtg	cccacgctcg	gcttccgccc	960
acccatggac	tacgccttta	gcgatctcat	gcgtgaccgc	tcggccgccg	ctgctgcggc	1020
ggtgcacaag	gagccgacct	acggcggcgg	cctgtacggg	cctatggtca	acggcgctcc	1080
ggagaagcag	tagggcgagg	ggcctggcag	ccggccggtc	cccaaacagg	aacccagcc	1140
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<210> 6
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <223> nuclear acid fragment 6 sequence

<400> 6						
gaaaacaatg	ccgaatcccc	tcccgtcct	cgagaaatag	ggggtggggg	tggggcgctg	60
gggaaggctg	tgatttccca	ctcaggccgc	ggcgctaagg	agacgcttgt	ccgaggtccc	120
gtgggatctc	cgaccctcgg	ggctactggg	agaggagact	tcctgtggta	ctcgaagac	180
ctatcccacc	agagtggcgc	ggggctcaca	actcccgaag	gacccgcgac	cgctgagcag	240
agggaacaca	gtgtgtaccc	cagcttgggc	acc			273

<210> 7
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuclear acid fragment 1 forward primer

<400> 7			
cgagaggtta	tataagttta	cg	22

<210> 8
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuclear acid fragment 1 reverse primer

<400> 8			
aatttcctaa	caaataattt	ccg	23

<210> 9

<211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuclear acid fragment 1 probe

 <400> 9
 cgccccgaaaa cgtataaaatt actcc 25

 <210> 10
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> nuclear acid fragment 2 forward primer

 <400> 10
 tttaaggatt aataatagag cg 22

 <210> 11
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 <212> DNA
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 <220>
 <223> nuclear acid fragment 2 reverse primer

 <400> 11
 gaaccgcgta attaaaac 18

 <210> 12
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 <212> DNA
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 <220>
 <223> nuclear acid fragment 2 probe

 <400> 12
 ctaactctcg ccgtaccgaa tc 22

 <210> 13
 <211> 18
 <212> DNA
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 <220>
 <223> nuclear acid fragment 3 forward primer

 <400> 13
 ggacggagat ataaggat 18

<210> 14
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 <212> DNA
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 <220>
 <223> nuclear acid fragment 3 reverse primer

 <400> 14
 ataaacgaac accaaaatc 19

 <210> 15
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 <220>
 <223> nuclear acid fragment 3 probe

 <400> 15
 cgcaacccca taaaacccaa 20

 <210> 16
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 <220>
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 <400> 16
 gtagtcgaga agtattcg 18

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 <220>
 <223> nuclear acid fragment 4 reverse primer

 <400> 17
 gataaacgta cacttaacg 19

 <210> 18
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 <220>
 <223> nuclear acid fragment 4 probe

<400> 18
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<210> 19
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuclear acid fragment 5 forward primer

<400> 19
 ttcgtttatt tatggattac g 21

<210> 20
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuclear acid fragment 5 reverse primer

<400> 20
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<210> 21
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nuclear acid fragment 5 probe

<400> 21
 aacaacgacg accgaacgat 20

<210> 22
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<220>
 <223> nuclear acid fragment 6 forward primer

<400> 22
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<210> 23
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 <212> DNA
 <213> Artificial Sequence

<220>

<223> nuclear acid fragment 6 reverse primer

<400> 23
aaaatcgaaa atcccacg 18

<210> 24
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> nuclear acid fragment 6 probe

<400> 24
ctcgaacaaa cgtctcctta ac 22

<210> 25
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> nuclear acid fragment 1 sequence after modification

<400> 25
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aatttatacg ttttcgggcg tacggaaatt atttgtagg aaatttttaa cgtttttttt 180
cgtttatttt tttttatttt ttttttggcg cgtttttttt ttttttagag gtacgtagtg 240
gagtttttgg agtttcgaat ttttcggata ttgtagaatg cgggggtttt cgggcgcggg 300
ttcggttaat tagagcgtcg tttgtttttt ttggttaatg gtaggcgtta tattgttggt 360
taattt 366

<210> 26
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
<223> nuclear acid fragment 2 sequence after modification

<400> 26
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gggtaattgg gtttcggttg cgcgtagcgt tcggcgcgta tcgcgagggg attcggtagc 120
gagagagtta gggtcggggt ttttaattac cggttcgtag acgagttttc gattcggatt 180
tttgaaggga ggggttgatt gcgttcggtt ttgaggggtt cggaggttcg gatattggtga 240
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ttagcgtcgt tagtggagtc gggaggcgcg tgtagcgtta gcggaggagg aggatttcgg 360
agtttaagggt ag 372

<210> 27
<211> 213
<212> DNA

<213> Artificial Sequence

<220>

<223> nuclear acid fragment 3 sequence after modification

<400> 27

aagggttttg	gagaggaggt	aacgtttata	gagaggaggt	ttgggatttt	cggacggaga	60
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cggtagaagc	ggggagttgg	gtttgtttgg	gttttatggg	gttgcggcgt	gggagggatt	180
ttggtgttcg	tttatggtta	gttgcgaagg	cga			213

<210> 28

<211> 1051

<212> DNA

<213> Artificial Sequence

<220>

<223> nuclear acid fragment 4 sequence after modification

<400> 28

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cggtgtgttt	tttattaggt	tttttttttt	ttttatTTTT	tttttcgtta	ggttttgtta	120
tggagtgtcg	ttcggagtgt	tttagcgtgt	tcggcgcggc	gacggcgggc	gcggtaatat	180
cgacggggtc	gtttgtggcg	tcggtggcgt	cggtggcggt	agtcgcggcg	gtcgttgtat	240
cgttatcggg	gagcgtggta	ggcggtttgt	tgcgggggtc	gttattgttg	ttgcgggtag	300
tcgagaagta	ttcgcggatt	tttaagtgcg	cgcgttgtcg	taattatggc	gtggtgtcgg	360
tttttaaggg	ttataaacgt	tattgtcgtt	ggaaggattg	tttgtgcgtt	aagtgtacgt	420
ttatcgcgga	gcgttagcgt	gttatggcgg	cgtaggtggc	gttgcgtagg	tagtaggcgt	480
aggaggagaa	cgaggcgcgc	gagttgtagt	tgttttacgg	tattgtcgag	gggttggcgt	540
tggtcgtcgt	taacggtatt	atTTTTTCga	ggttcgttta	cgaggttttc	ggtttagtgt	600
gcgtcgtcga	cggcggggga	tttggagcgg	gagcgttcgc	ggggatcgga	ggcggagtag	660
ttggcgtagg	gggtttaggt	gagagcgcgg	ttaggtcgtta	ggtaggggta	gtaggatcgt	720
agttttgggg	tacgggggtt	aggggtttgt	ttcggtttag	aaagagtaga	atTTTCgtgt	780
ttagtcgtcg	cgattgttag	ggtttatcgt	tcgttttagt	tcgggtatgg	agcgtgggta	840
tagaaatttt	tttttttttc	gtttttggag	tatttgtatt	ttattttttt	tttttgtatc	900
gggtcgaaat	gtatacgttt	taattttttt	attcgttttt	atttaaactg	aggtaggttt	960
ttgttttttt	gtttcgtttt	tttttttaggt	ggaaatttgc	gtatttttcgt	tcgtttttgcg	1020
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<210> 29

<211> 1200

<212> DNA

<213> Artificial Sequence

<220>

<223> nuclear acid fragment 5 sequence after modification

<400> 29

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cgacggcgta	gattcggggg	tcgggacgtc	gttttttagag	gtgcgggttcg	gttttaggttc	180
ggagaacggc	gatggcgagt	tttttttttg	ttcgttttta	gttcgggttt	ttaaagaggt	240
aggtggtagt	tgtttaggta	gcgttggttt	tggcggcggc	ggcgaggagg	atagttcggg	300

tttcgttagt	tttttgggtt	ttgaattcgg	tttagaggtt	gataaagaag	agggtgaggt	360
cgcgtcggcg	ttagggttgg	gcggagggtc	gggtttacgg	tagcggacgt	cgttggatat	420
tttgatacgc	gtgttttttag	gttatcggcg	aggcgttttg	gagttgggtg	tgtagggttg	480
cggcggcgac	gtggtgtagg	ttatcgagta	ggtgttgaat	tattatcgtg	ggggtttggc	540
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agacgacgcg	tggtttagtc	gcgtcgacgt	cgctcgtcgc	gtcgtcgtcg	tcgtcggggg	660
gtttgggttg	tttgcgtcgt	tgtaggcggg	gttcgtcgtg	ttttcgtatt	atagattttt	720
gttggtcggc	gttatggcgt	ttggggcggt	gggttcgttg	agtagtcgtt	cggttttttc	780
gtcgtttag	tttaacgtta	gttatttcgg	tgtcgacgcg	ggcgtttatt	cgttgggcgc	840
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tttggttttt	atggcgtttt	attttattgt	cggtttggtg	tttacgttcg	gttttcgttt	960
atttatggat	tacgttttta	gcgattttat	gcgtgacgt	tcggtcgtcg	ttgttgcggc	1020
ggtgtataag	gagtcgattt	acggcggcgg	tttgtacggg	tttatggtta	acggcgtttc	1080
ggagaagtag	tagggcgagg	ggtttggtag	tcggtcgggt	tttaaataagg	aatttttagtt	1140
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<211> 273

<212> DNA

<213> Artificial Sequence

<220>

<223> nuclear acid fragment 6 sequence after modification

<400> 30

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gtgggatttt	cgatttttcg	ggttattggg	agaggagatt	ttttgtggta	ttcggaagat	180
ttattttatt	agagtggcgc	ggggtttata	attttcgaag	gattcgcgat	cgttgagtag	240
agggaatata	gtgtgtat	tagtttgggt	att			273

<210> 31

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> CG443 forward primer

<400> 31

aggttcgttt	acgaggtttt	c	21
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<210> 32

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> CG443 reverse primer

<400> 32

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<210>	33	
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<210>	34	
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<212>	DNA	
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<223>	CG447 forward primer	
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<213>	Artificial Sequence	
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<223>	CG447 reverse primer	
<400>	35	
	cgtaaaacaa ctacaactcg cg	22
<210>	36	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	CG447 probe	
<400>	36	
	ttctcctcct acgcctacta ccta	24
<210>	37	
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<212>	DNA	
<213>	Artificial Sequence	
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<223>	CG190 forward primer	
<400>	37	

gcgttcgta gtagtaggc	20
<210> 38	
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<212> DNA	
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<223> CG190 reverse primer	
<400> 38	
gaacctcgaa aaaataatac cggt	24
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<213> Artificial Sequence	
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<223> CG190 probe	
<400> 39	
aggagaacga ggcgcgcga	19
<210> 40	
<211> 20	
<212> DNA	
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<223> CG437 forward primer	
<400> 40	
gcgttcggag ttgttagcg	20
<210> 41	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
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<223> CG437 reverse primer	
<400> 41	
caccgacgcc acaaacga	18
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<212> DNA	
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ctattaccgc cgccgccgtc g	21
<210> 43	
<211> 20	
<212> DNA	
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<223> CG441 forward primer	
<400> 43	
gcggtcgttg tatcgttatc	20
<210> 44	
<211> 20	
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<400> 44	
gaatacttct cgactacccg	20
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taacgacccc cgcaacaaac cg	22
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cgttgatatcg ttatcggatga gc	22
<210> 47	
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<212> DNA	
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 <223> CG446 reverse primer

 <400> 47
 gcgcacttaa aaatccgcg 19

 <210> 48
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> CG446 probe

 <400> 48
 cttctcgact acccgcaaca acaataacg 29

 <210> 49
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> ACTB (internal reference gene) forward primer

 <400> 49
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 <210> 50
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> ACTB (internal reference gene) reverse primer

 <400> 50
 aaacctactc ctcccttaaa 20

 <210> 51
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> ACTB (internal reference gene) probe

 <400> 51
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 <210> 52
 <211> 25
 <212> DNA

<213> Artificial Sequence
 <220>
 <223> ACTB (internal reference gene) forward primer
 <400> 52
 tggatgatgga ggaggttag taagt 25
 <210> 53
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 <212> DNA
 <213> Artificial Sequence
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 <223> ACTB (internal reference gene) reverse primer
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 aaccaataaa acctactcct cccttaa 27
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 <400> 54
 gcgttcggag ttgttagc 19
 <210> 55
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 <223> nuclear acid fragment 4 reverse primer
 <400> 55
 caccgacgcc acaaacg 17
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