

TET64445PC-2009061833
SEQUENCE LISTING

<110> TET Systems Holding GmbH & Co. KG

<120> Tetracycline inducible transcription control sequence

<130> TET64445PC

<150> EP08165605.0

<151> 2008-10-01

<160> 71

<170> PatentIn version 3.5

<210> 1

<211> 19

<212> DNA

<213> artificial

<220>

<223> tet operator

<400> 1

tccctatcag tgatagaga 19

<210> 2

<211> 128

<212> DNA

<213> artificial

<220>

<223> hCMV minimal promoter

<400> 2

ggtaggcgtg tacggtggga ggcctatata agcagagctc gtttagtgaa ccgtcagatc 60

gcctggagac gccatccacg ctgttttgac ctccatagaa gacaccggga ccgatccagc 120

ctccgcgg 128

<210> 3

<211> 7

<212> DNA

<213> artificial

<220>

<223> TFIIB binding site

<400> 3

gggcgcc 7

<210> 4

<211> 7

<212> DNA

<213> artificial

<220>

<223> TFIID binding site, TATA Box

<400> 4

tataaaa 7

<210> 5

<211> 126

TET64445PC-2009061833

<212> DNA
 <213> artificial

<220>
 <223> minimal promoter from Ptet-T2

<400> 5
 ggtaggcgtg tacggtgggc gcctataaaa gcagagctcg tttagtgaac cgtcagatcg 60
 cctggagacg ccatccacgc tgttttgacc tccatagaag acaccgggac cgatccagcc 120
 tccgcg 126

<210> 6
 <211> 19
 <212> DNA
 <213> artificial

<220>
 <223> RFX-1 binding site

<400> 6
 ccgtaaccac ttgcaaccc 19

<210> 7
 <211> 10
 <212> DNA
 <213> artificial

<220>
 <223> AP4 binding site

<400> 7
 tccagctctc 10

<210> 8
 <211> 20
 <212> DNA
 <213> artificial

<220>
 <223> HP-1 binding site

<400> 8
 cagctctctt ttgacaactg 20

<210> 9
 <211> 24
 <212> DNA
 <213> artificial

<220>
 <223> HP-2 binding site

<400> 9
 caaccctcgt aagacaattg caaa 24

<210> 10
 <211> 66
 <212> DNA
 <213> artificial

<220>
 <223> modified minimal promoter form Ptet-T4

TET64445PC-2009061833

<400> 10
taggcgtgta cggtgggagc ctataaaagc agagctcggt tagtgaaccg tcagatcgcc 60
tggaga 66

<210> 11
<211> 89
<212> DNA
<213> artificial

<220>
<223> TYMV 5'UTR

<400> 11
gtaatcaact accaattcca gctctctttt gacaactggt cttataccaa ctttccgtac 60
cacttgcaac cctcgtaaga caattgcaa 89

<210> 12
<211> 58
<212> DNA
<213> artificial

<220>
<223> modified TYMV 5'UTR from Ptet-T6

<400> 12
aattccacaa cacttttgtc ttataccaac tttccgtacc acttcctacc ctcgtaaa 58

<210> 13
<211> 345
<212> DNA
<213> artificial

<220>
<223> Ptet-T3

<400> 13
tttactccct atcagtata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
cagtataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
tttactccct atcagtata gagaacgtat atccagttta ctccctatca gtgatagaga 240
acgtataagc ttaggcgtg tacggtggg gcctataaaa gcagagctcg tttagtgaac 300
cgtcagatcg cctggagacg ccatccacgc tgtttccata gaaga 345

<210> 14
<211> 318
<212> DNA
<213> artificial

<220>
<223> Ptet-T4

<400> 14
tttactccct atcagtata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
cagtataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180

TET64445PC-2009061833

tttactccct atcagtgata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc tttaggcgtg tacggtgggc gcctataaaa gcagagctcg tttagtgaac 300
 cgtcagatcg cctggaga 318

<210> 15
 <211> 406
 <212> DNA
 <213> artificial

<220>
 <223> Ptet-T5

<400> 15
 tttactccct atcagtgata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
 acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
 cagtgataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
 tttactccct atcagtgata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc tttaggcgtg tacggtgggc gcctataaaa gcagagctcg tttagtgaac 300
 cgtcagatcg cctggaggta atcaactacc aattccagct ctcttttgac aactggtctt 360
 ataccaactt tccgtaccac ttcctaccct cgtaagacaa ttgcaa 406

<210> 16
 <211> 376
 <212> DNA
 <213> artificial

<220>
 <223> Ptet-T6

<400> 16
 tttactccct atcagtgata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
 acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
 cagtgataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
 tttactccct atcagtgata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc tttaggcgtg tacggtgggc gcctataaaa gcagagctcg tttagtgaac 300
 cgtcagatcg cctggagcaa ttccacaaca cttttgtctt ataccaactt tccgtaccac 360
 ttcctaccct cgtaaa 376

<210> 17
 <211> 407
 <212> DNA
 <213> artificial

<220>
 <223> Ptet-T7

<400> 17
 tttactccct atcagtgata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
 acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120

TET64445PC-2009061833

cagtgataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
 ttctactccct atcagtgata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc tttaggcgtg tacgggtgggc gcctataaaa gcagagctcg tttagtgaac 300
 cgtcagatcg cctggagcta atcaactacc aattccagct ctcttttgac aactgggtctt 360
 ataccaactt tccgtaccac ttcctaccct cctaagacaa ttgcaaa 407

<210> 18
 <211> 210
 <212> DNA
 <213> artificial

<220>
 <223> MMTV minimal promoter

<400> 18
 gcctatgttc ttttggaatc tatccaagtc ttatgtaa gcttatgtaa accataatat 60
 aaaagagtgc tgattttttg agtaaacttg caacagtcct aacattcttc tctcgtgtgt 120
 ttgtgtctgt tcgccatccc gtctccgctc gtcacttatc cttcactttt cagaggggtcc 180
 ccccgagat cccggtcacc ctcaggtcgg 210

<210> 19
 <211> 462
 <212> DNA
 <213> artificial

<220>
 <223> Ptet-T8

<400> 19
 ttctactccct atcagtgata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
 acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
 cagtgataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
 ttctactccct atcagtgata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc ttgcctatgt tcttttgga tctatccaag tcttatgtaa atgcttatgt 300
 aaaccataat ataaaagagt gctgattttt tgagtaaact tgcaacagtc ctaacattct 360
 tctctcgtgt gtttgtgtct gttcgccatc ccgtctccgc tcgtcactta tccttcactt 420
 ttcagaggggt ccccccgcag atcccgggtca ccctcaggtc gg 462

<210> 20
 <211> 10
 <212> DNA
 <213> artificial

<220>
 <223> Oct-11 (OTF-1) binding sites

<400> 20
 atgtaaatct 10

<210> 21
 <211> 14

TET64445PC-2009061833

<212> DNA
 <213> artificial

 <220>
 <223> NF 1 binding site

 <400> 21
 tggaatctat ccaa 14

<210> 22
 <211> 12
 <212> DNA
 <213> artificial

 <220>
 <223> FOX A1-1 binding site

 <400> 22
 atgtaaattgc tt 12

<210> 23
 <211> 411
 <212> DNA
 <213> artificial

 <220>
 <223> Ptet-T9

 <400> 23
 ttactccct atcagtata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
 acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
 cagtataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
 ttactccct atcagtata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc ttccataata taaaagagtg ctgatttttt gagtaaaactt gcaacagtcc 300
 taacattctt ctctcgtgtg tttgtgtctg ttcgccatcc cgtctccgct cgtcacttat 360
 ccttcacttt tcagaggggc ccccgccaga tcccggtcac cctcagggtcg g 411

<210> 24
 <211> 415
 <212> DNA
 <213> artificial

 <220>
 <223> Ptet-T10

 <400> 24
 ttactccct atcagtata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
 acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
 cagtataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
 ttactccct atcagtata gagaacgtat atccagttta ctccctatca gtgatagaga 240
 acgtataagc ttccagggcg cctataaaaag agtgctgatt ttttgagtaa acttgcaaca 300
 gtcctaact tcttctctcg tgtgtttgtg tctgttcgcc atcccgctc cgctcgtcac 360
 ttatccttca cttttcagag ggtcccccg cagatcccg tcaccctcag gtcgg 415

TET64445PC-2009061833

<210> 25
<211> 365
<212> DNA
<213> artificial

<220>
<223> Ptet-T11

<400> 25
tttactccct atcagtgata gagaacgtat gaagagttta ctccctatca gtgatagaga 60
acgtatgcag actttactcc ctatcagtga tagagaacgt ataaggagtt tactccctat 120
cagtgataga gaacgtatga ccagtttact ccctatcagt gatagagaac gtatctacag 180
tttactccct atcagtgata gagaacgtat atccagttta ctccctatca gtgatagaga 240
acgtataagc ttgcttatg taaaccaggg cgcctataaa agagtgctga ttttttgagt 300
aaacttcaat tccacaacac ttttgtctta taccaacttt ccgtaccact tcctaccctc 360
gtaaa 365

<210> 26
<211> 63
<212> DNA
<213> artificial

<220>
<223> TOH-1 forward

<400> 26
tcgagtttac tccctatcag tgatagagaa cgtatgaaga gtttactccc tatcagtgat 60
aga 63

<210> 27
<211> 54
<212> DNA
<213> artificial

<220>
<223> TOH-1 reverse

<400> 27
caaatgaggg atagtcacta tctcttgcac acttctcaaa tgagggatag tcac 54

<210> 28
<211> 59
<212> DNA
<213> artificial

<220>
<223> TOH-2 forward

<400> 28
gaacgtatgc agactttact ccctatcagt gatagagaac gtataaggag tttactccc 59

<210> 29
<211> 59
<212> DNA
<213> artificial

<220>

<223> TOH-2 reverse
 <400> 29
 tatctcttgc atacgtctga aatgagggat agtcactatc tcttgcataat tcctcaaata 59
 <210> 30
 <211> 57
 <212> DNA
 <213> artificial
 <220>
 <223> TOH-3 forward
 <400> 30
 tatcagtgat agagaacgta tgaccagttt actccctatc agtgatagag aacgtata 57
 <210> 31
 <211> 66
 <212> DNA
 <213> artificial
 <220>
 <223> TOH-3 reverse
 <400> 31
 gagggatagt cactatctct tgcatactgg tcaaatagagg gatagtcact atctcttgca 60
 tagatg 66
 <210> 32
 <211> 62
 <212> DNA
 <213> artificial
 <220>
 <223> TOH-4 forward
 <400> 32
 ctacagttta ctccctatca gtgatagaga acgtatatcc agtttactcc ctatcagtga 60
 ta 62
 <210> 33
 <211> 62
 <212> DNA
 <213> artificial
 <220>
 <223> TOH-4 reverse
 <400> 33
 ctacagttta ctccctatca gtgatagaga acgtatatcc agtttactcc ctatcagtga 60
 ta 62
 <210> 34
 <211> 65
 <212> DNA
 <213> artificial
 <220>
 <223> TOH-5 forward
 <400> 34

gagaacgtat aagctttagg cgtgtacggg gggcgcttat aaaagcagag ctcgtttagt 60
gaacc 65

<210> 35
<211> 56
<212> DNA
<213> artificial

<220>
<223> TOH-5 reverse

<400> 35
tgcatattcg aaatccgcac atgccacccg cggatatttt cgtctcgagc aaatca 56

<210> 36
<211> 58
<212> DNA
<213> artificial

<220>
<223> TOH-6 forward

<400> 36
gtcagatcgc ctggagacgc catccacgct gttttgacct ccatagaaga gtcgacac 58

<210> 37
<211> 67
<212> DNA
<213> artificial

<220>
<223> TOH-6 reverse

<400> 37
cttggcagtc tagcggacct ctgcggtagg tgcgacaaaa ctggaggtat cttctcagct 60
gtggtac 67

<210> 38
<211> 31
<212> DNA
<213> artificial

<220>
<223> T07.s

<400> 38
cctccataga agagtcgaca ccatggtgag c 31

<210> 39
<211> 35
<212> DNA
<213> artificial

<220>
<223> T07.as

<400> 39
aaacagcgtg gatggcgtct ccaggcgatc tgacg 35

<210> 40
<211> 79

<212> DNA
 <213> artificial

 <220>
 <223> T07.1s

 <400> 40
 agcttttaggc gtgtacggtg ggcgcctata aaagcagagc tcgttttagtg aaccgtcaga 60
 tcgcctggag agtcgacac 79

 <210> 41
 <211> 79
 <212> DNA
 <213> artificial

 <220>
 <223> T07.1as

 <400> 41
 catggtgtcg actctccagg cgatctgacg gttcactaaa cgagctctgc ttttataggc 60
 gcccaccgta cagcctaa 79

 <210> 42
 <211> 64
 <212> DNA
 <213> artificial

 <220>
 <223> T07.2s

 <400> 42
 ataccaactt tccgtaccac ttcctaccct cgtaagacaa ttgcaagtcg acaccatggt 60
 gagc 64

 <210> 43
 <211> 60
 <212> DNA
 <213> artificial

 <220>
 <223> T07.2as

 <400> 43
 aagaccagtt gtcaaaagag agctggaatt ggtagttgat tacctccagg cgatctgacg 60

 <210> 44
 <211> 47
 <212> DNA
 <213> artificial

 <220>
 <223> T07.3s

 <400> 44
 ctttccgtac cacttcctac cctcgtaaag tcgacaccat ggtgagc 47

 <210> 45
 <211> 47
 <212> DNA
 <213> artificial

TET64445PC-2009061833

<220>
 <223> T07.3as

<400> 45
 ttggtataag acaaaagtgt tgtggaattg ctccaggcga tctgacg 47

<210> 46
 <211> 61
 <212> DNA
 <213> artificial

<220>
 <223> T07.4s

<400> 46
 caactttccg taccacttcc taccctccta agacaattgc aaagtcgaca ccatggtgag 60
 c 61

<210> 47
 <211> 64
 <212> DNA
 <213> artificial

<220>
 <223> T07.4as

<400> 47
 gtataagacc agttgtcaaa agagagctgg aattggtagt tgattagctc caggcgatct 60
 gacg 64

<210> 48
 <211> 30
 <212> DNA
 <213> artificial

<220>
 <223> MMTV-5' (-89)

<400> 48
 accgaagctt gcctatgttc ttttggaatc 30

<210> 49
 <211> 45
 <212> DNA
 <213> artificial

<220>
 <223> MMTV-3' (+122)

<400> 49
 cccggtcacc ctccaggtcgg gtcgacacca tggccagata tcccc 45

<210> 50
 <211> 31
 <212> DNA
 <213> artificial

<220>
 <223> MMTV-5' (-37)

<400> 50
 accgaagctt ccataatata aaagagtgc g 31

<210> 51
 <211> 45
 <212> DNA
 <213> artificial

 <220>
 <223> MMTV-3' (+122)

 <400> 51
 cccggtcacc ctcaggtcgg gtcgacacca tggccagata tcccc 45

 <210> 52
 <211> 42
 <212> DNA
 <213> artificial

 <220>
 <223> T07.7-s

 <400> 52
 atcaagcttc cagggcgcct ataaaagagt gctgattttt tg 42

 <210> 53
 <211> 31
 <212> DNA
 <213> artificial

 <220>
 <223> T07.7-as

 <400> 53
 atccatgggtg tcgacccgac ctgaggggtga c 31

 <210> 54
 <211> 42
 <212> DNA
 <213> artificial

 <220>
 <223> T07.8-s1

 <400> 54
 atcaagcttt gcttatgtaa accagggcgc ctataaaaga gt 42

 <210> 55
 <211> 49
 <212> DNA
 <213> artificial

 <220>
 <223> T07.8-as1

 <400> 55
 gtggaattga agtttactca aaaaatcagc actcttttat aggcgcctt 49

 <210> 56
 <211> 52
 <212> DNA
 <213> artificial

 <220>
 <223> T07.8-s2

<400> 56
tgagtaaact tcaattccac aacacttttg tcttatacca actttccgta cc 52

<210> 57
<211> 52
<212> DNA
<213> artificial

<220>
<223> T07.8-as2

<400> 57
atccatgggtg tcgactttac gagggtagga agtggtacgg aaagttggta ta 52

<210> 58
<211> 146
<212> DNA
<213> artificial

<220>
<223> sequence fragment of T1

<400> 58
aagcttggtg ggcgtgtacg gtgggaggcc tatataagca gagctcgttt agtgaaccgt 60
cagatcgcct ggagacgcca tccacgctgt ttgacctcc atagaagaca ccgggaccga 120
tccagcctcc gcggtcgaca ccatgg 146

<210> 59
<211> 145
<212> DNA
<213> artificial

<220>
<223> sequence fragment of T2

<400> 59
aagcttggtg ggcgtgtacg gtgggagcct ataaaagcag agctcgttta gtgaaccgtc 60
agatcgcctg gagacgcat ccacgctgtt ttgacctcca tagaagacac cgggaccgat 120
ccagcctccg cggtcgacac catgg 145

<210> 60
<211> 112
<212> DNA
<213> artificial

<220>
<223> sequence fragment of T3

<400> 60
aagctttagg cgtgtacggt gggcgcctat aaaagcagag ctcgtttagt gaaccgtcag 60
atcgcctgga gacgcatcc acgctgtttc catagaagag tcgacaccat gg 112

<210> 61
<211> 85
<212> DNA
<213> artificial

<220>

<223> sequence fragment of T4

<400> 61
aagcttttagg cgtgtacggt gggcgcctat aaaagcagag ctcgttttagt gaaccgtcag 60
atcgcctgga gagtcgacac catgg 85

<210> 62
<211> 173
<212> DNA
<213> artificial

<220>
<223> sequence fragment of T5

<400> 62
aagcttttagg cgtgtacggt gggcgcctat aaaagcagag ctcgttttagt gaaccgtcag 60
atcgcctgga ggtaatcaac taccaattcc agctctcttt tgacaactgg tcttatacca 120
actttccgta ccacttccta ccctcgtaag acaattgcaa gtcgacacca tgg 173

<210> 63
<211> 142
<212> DNA
<213> artificial

<220>
<223> sequence fragment of T6

<400> 63
aagcttttagg cgtgtacggt gggcgcctat aaaagcagag ctcgttttagt gaaccgtcag 60
atcgcctgga gaattccaca acacttttgt cttataccaa ctttccgtac cacttcctac 120
cctcgtaaag tcgacaccat gg 142

<210> 64
<211> 174
<212> DNA
<213> artificial

<220>
<223> sequence fragment of T7

<400> 64
aagcttttagg cgtgtacggt gggcgcctat aaaagcagag ctcgttttagt gaaccgtcag 60
atcgcctgga gctaataaac taccaattcc agctctcttt tgacaactgg tcttatacca 120
actttccgta ccacttccta ccctcctaag acaattgcaa agtcgacacc atgg 174

<210> 65
<211> 262
<212> DNA
<213> artificial

<220>
<223> fragment 1 of Ptet-T6syn

<400> 65
gaattcttta ctccctatca gtgatagaga atgtatgaag agtttactcc ctatcagtga 60
tagagaatgt atgcagactt tactccctat cagtgataga gaatgtataa ggagtttact 120

TET64445PC-2009061833

ccctatcagt gatagagaat gtatgaccag tttactccct atcagtgata gagaatgtat 180
 ctacagttta ctccctatca gtgatagaga atgtatatcc agtttactcc ctatcagtga 240
 tagagaatgt ataagcttta gg 262

<210> 66
 <211> 133
 <212> DNA
 <213> artificial

<220>
 <223> fragment 2 of Ptet-T6syn

<400> 66
 catgtacagt gggcacctat aaaagcagag ctcathtagt gaactgtcag attgcctgga 60
 gcaattccac aacacttttg tcttatacca actttccata ccacttccta ccctcataaa 120
 gtgcacacca tgg 133

<210> 67
 <211> 150
 <212> DNA
 <213> artificial

<220>
 <223> fragment 1 of bidirectional Ptet-T6

<400> 67
 ccatggtgtg cactttatga gggtaggaag tggtagtgaa agttggtata agacaaaagt 60
 gttgtggaat tgctccaggc aatctgacag ttcactaaat gagctctgct tttataggtg 120
 cccactgtac atgcctaaga attctttact 150

<210> 68
 <211> 250
 <212> DNA
 <213> artificial

<220>
 <223> fragment 2 of bidirectional Ptet-T6

<400> 68
 ccctatcagt gatagagaat gtatgaagag tttactccct atcagtgata gagaatgtat 60
 gcagacttta ctccctatca gtgatagaga atgtataagg agtttactcc ctatcagtga 120
 tagagaatgt atgaccagtt tactccctat cagtgataga gaatgtatct acagtttact 180
 ccctatcagt gatagagaat gtatatccag tttactccct atcagtgata gagaatgtat 240
 aagctttagg 250

<210> 69
 <211> 133
 <212> DNA
 <213> artificial

<220>
 <223> fragment 3 of bidirectional Ptet-T6

<400> 69
 catgtacagt gggcacctat aaaagcagag ctcathtagt gaactgtcag attgcctgga 60

TET64445PC-2009061833

gcaattccac aacacttttg tcttatacca actttccata ccacttccta ccctcataaa 120
gtgcacacca tgg 133

<210> 70
<211> 8
<212> DNA
<213> artificial

<220>
<223> Oct12 (OTF-1) binding sites

<400> 70
atgtaaac 8

<210> 71
<211> 11
<212> DNA
<213> artificial

<220>
<223> FOX A1-2 binding site

<400> 71
atgtaaacca t 11