

SEQUENCE LISTING

<110> King Faisal Specialist Hospital and Research Center
King Saud University
Terramark Markencreation GmbH

<120> Multiple Interferon and Virus Response Element Cell-based
Fluorescence System

<130> K30723PCT

<160> 109

<170> PatentIn version 3.3

<210> 1

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<223> n is a, c, g, t or u

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12

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<222> (7)..(8)

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<223> Description of artificial sequence: synthetic VRE (virus
responsive element) derived from natural sequence

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gggaaaccga aactggggaa accgaaactg gggaaaccga aactgggaaa ccgaaac 57

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<223> Description of artificial sequence: synthetic VRE (virus
responsive element) derived from natural sequence

<400> 5
ggaaaccgaa aggggaaagt gaaactaaag ctgaaaccga aaggggaaag tgaaactaaa 60
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<210> 6
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<400> 7
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<210> 8
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<400> 8
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<223> Description of artificial sequence: modified sequence from natural ISRE/VRE

<400> 9
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<213> Homo sapiens

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<211> 50
<212> DNA
<213> Homo sapiens

<400> 11
cctccttccg tctttcagtt tcacttttgt tttcctgctc ctgctccctc 50

<210> 12
<211> 61
<212> DNA
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<400> 12
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t 61

<210> 13
<211> 50
<212> DNA
<213> Homo sapiens

<400> 13
aaaaaactga aactcagcct gaaagatgaa cagaacaaaa cagaaatcct 50

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<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 14
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<210> 15
<211> 51
<212> DNA

<213> Homo sapiens

<400> 15

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<212> DNA

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<211> 52

<212> DNA

<213> Homo sapiens

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<210> 18

<211> 55

<212> DNA

<213> Homo sapiens

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<210> 19

<211> 56

<212> DNA

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<223> Description of artificial sequence: modified sequence from natural ISRE/VRE

<400> 19

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<211> 48

<212> DNA

<213> Homo sapiens

<400> 20

cagcttcagt tttcctaata acagtgagtc atttcttctc tctctttt 48

<210> 21

<211> 53

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22
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<212> DNA
<213> Homo sapiens

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t 61

<210> 23
<211> 72
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<213> Artificial sequence

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<223> Description of artificial sequence: modified sequence from
natural ISRE/VRE

<400> 23
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cctttcccct tt 72

<210> 24
<211> 54
<212> DNA
<213> Homo sapiens

<400> 24
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<210> 25
<211> 53
<212> DNA
<213> Homo sapiens

<400> 25
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<210> 26
<211> 69
<212> DNA
<213> Homo sapiens

<400> 26
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aatttcatg 69

<210> 27
<211> 53
<212> DNA
<213> Homo sapiens

<400> 27
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<210> 28
<211> 51
<212> DNA
<213> Homo sapiens

<400> 28
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<210> 29
<211> 65
<212> DNA
<213> Homo sapiens

<400> 29
tctcattttc atttttacct gttttgtctt actttgtact ttaccagtt tcgctttatc 60
atctg 65

<210> 30
<211> 50
<212> DNA
<213> Homo sapiens

<400> 30
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<210> 31
<211> 54
<212> DNA
<213> Homo sapiens

<400> 31
gtttcctttt ccttttcgat tccgccccct aacattatgt ttcgttttcc actg 54

<210> 32
<211> 51
<212> DNA
<213> Homo sapiens

<400> 32
ccagctcccc gcgcggaggg cgctgtaagt ttcgctttcc attcagtgga g 51

<210> 33
<211> 52
<212> DNA
<213> Homo sapiens

<400> 33
gctaggtttc gtttctgcgc cccacagggt ctgtgagttt cattttctcg cg 52

<210> 34
<211> 55
<212> DNA
<213> Homo sapiens

<400> 34
tgagtttctgt ttctgagctc ctttcatttt caccggtttc aattctcttc tggag 55

<210> 35
<211> 52
<212> DNA
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<400> 35
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<210> 36
<211> 51
<212> DNA
<213> Homo sapiens

<400> 36
ggtaaagtgc tttctgcttt tcatttttcc tagctagcat tagtctctct g 51

<210> 37
<211> 51
<212> DNA
<213> Homo sapiens

<400> 37
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<210> 38
<211> 57
<212> DNA
<213> Homo sapiens

<400> 38
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<210> 39
<211> 53
<212> DNA
<213> Homo sapiens

<400> 39
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<210> 40
<211> 51
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<213> Homo sapiens

<400> 40
cctccttcctg tctttcagtt tcacttttgt tttcctgctc ctgctccctc g 51

<210> 41
<211> 58
<212> DNA
<213> Homo sapiens

<400> 41
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<210> 42
<211> 54
<212> DNA
<213> Homo sapiens

<400> 42
tgatatctta ttgtggtttt gctttgcatt tcctgtgag caccttttca tatg 54

<210> 43
<211> 58
<212> DNA
<213> Homo sapiens

<400> 43
cacttctttc aaagtgggtt ctttcagttt tcctattaag ttctgtgtt gcttcttg 58

<210> 44
<211> 54
<212> DNA
<213> Homo sapiens

<400> 44
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<210> 45
<211> 58
<212> DNA
<213> Homo sapiens

<400> 45
ccattctttt attcctttac ctttgctttc actttactct acccttaatt ctttcttg 58

<210> 46
<211> 59
<212> DNA
<213> Homo sapiens

<400> 46
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<210> 47
<211> 52
<212> DNA
<213> Homo sapiens

<400> 47
aggttcctct tttctttcca gagccagttg acagatttac cttctcttta ag 52

<210> 48
<211> 61
<212> DNA
<213> Homo sapiens

<400> 48
acagtttttag ctttacaatt ttttttctct ttccttttgt tgtgaattca tttacctaac 60
g 61

<210> 49
<211> 60
<212> DNA
<213> Homo sapiens

<400> 49
atttgacttc ctcttttcct aactgaatac tctttatttc tttatcctgc ctaagaactt 60

<210> 50
<211> 61
<212> DNA
<213> Homo sapiens

<400> 50
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g 61

<210> 51
<211> 54
<212> DNA
<213> Homo sapiens

<400> 51
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<210> 52
<211> 64
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: synthetic ISRE
(IFN-responsive element) derived from natural sequence

<400> 52
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tccg 64

<210> 53
<211> 60
<212> DNA
<213> Homo sapiens

<400> 53
gggaaaatga aactcggagc tgggagagag gggaaaatga aactgcagaa atagaaactg 60

<210> 54
<211> 54
<212> DNA
<213> Homo sapiens

<400> 54
aagtaaagaa agtgaaagtg aaaaggagat tggaaagcaa ggaaaggaga aacg 54

<210> 55
<211> 43
<212> DNA
<213> Artificial sequence

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<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 55
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<210> 56
<211> 51
<212> DNA
<213> Artificial sequence

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<223> Description of artificial sequence: modified sequence from natural ISRE/VRE

<400> 56
gaaagtgaaa agagaattgg aaagcgaaag tgaaaagaga attggaaagc g 51

<210> 57
<211> 47
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 57
aagtgaaagt gaaagtgaaa gtgaaagtga aagtgaaagt gaaagtg 47

<210> 58
<211> 53
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 58
agaaatggaa agtagaaatg gaaagtgaga agtgaaagtg agaagtgaaa gtg 53

<210> 59
<211> 56
<212> DNA
<213> Artificial sequence

<220>

<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 59
gggaaagaga aaccggaaaa gcgaaactgg aaagagaaac cggaaaagcg aaactg 56

<210> 60
<211> 70
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: modified sequence from natural ISRE/VRE

<400> 60
acttttgctt ttccctgtct ttcggtcatt cggttttgtt tcttccggga aagggaaacc 60
gaaactgaag 70

<210> 61
<211> 75
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: modified sequence from natural ISRE/VRE

<400> 61
aagaaaaaga gtcctgccaa tttcactttc tagtttcact ttcccttttg ttgaaggga 60
acaaacaaaa aggaa 75

<210> 62
<211> 74
<212> DNA
<213> Homo sapiens

<400> 62
gagaaacata aagagtgcatt gaaggaaagc aaaaacagaa atggaaagtg gcccattaag 60
aaagtggaaa tcag 74

<210> 63
<211> 66
<212> DNA
<213> Homo sapiens

<400> 63
cacaaatgaa aacagtaaaa gaaactgaaa gtacagagaa atgttcagaa aatgaaaacc 60
atgtgt 66

<210> 64
<211> 69
<212> DNA
<213> Homo sapiens

<400> 64
tagaaagagc ataaaagaaa gcaaaaagag aagtagaaag taggcaagaa aatggaaact 60
gtgaccttg 69

<210> 65
<211> 60
<212> DNA
<213> Homo sapiens

<400> 65
cagcaaagtg gaacttaaga ggggaagtga aacagggaaa tgcaaggaga aaggcgaaag 60

<210> 66
<211> 63
<212> DNA
<213> Homo sapiens

<400> 66
ctgaaagatg actcagttaa gaagctggaa aataaaacca ggtcttattc tgaactgaaa 60
gtc 63

<210> 67
<211> 62
<212> DNA
<213> Artificial sequence

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<223> Description of artificial sequence: modified sequence from
natural ISRE/VRE

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ag 62

<210> 68
<211> 61
<212> DNA
<213> Homo sapiens

<400> 68
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g 61

<210> 69
<211> 61
<212> DNA
<213> Homo sapiens

<400> 69
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g 61

<210> 70
<211> 52
<212> DNA
<213> Homo sapiens

<400> 70
atgaggggag aaagatgtct gcagtttcgg tttcctggaa aatgaaacct gg 52

<210> 71
<211> 51
<212> DNA
<213> Homo sapiens

<400> 71
agtgtctgat ttgcaaaagg aaagtgcaaa gacagctcct cccttctgag g 51

<210> 72
<211> 51
<212> DNA
<213> Homo sapiens

<400> 72
tgtaaattgga aaaacgaaat gacaaataat tatgaaagag gcatccattt g 51

<210> 73
<211> 50
<212> DNA
<213> Homo sapiens

<400> 73
tgagcaggcg gccgctttcg atttcgcttt cccttaaattg gctgagcttg 50

<210> 74
<211> 41
<212> DNA
<213> Homo sapiens

<400> 74
cagccattta ggggaaagcg aaatcgaaag cggccgcctg g 41

<210> 75
<211> 56
<212> DNA
<213> Homo sapiens

<400> 75
acagcaggaa atagaaactt aagagaaata cacacttctg agaaactgaa acgacg 56

<210> 76
<211> 44
<212> DNA
<213> Homo sapiens

<400> 76
tgctcggga aagggaacc gaaactgaag ccaaatttgg ccag 44

<210> 77

<211> 48

<212> DNA

<213> Homo sapiens

<400> 77

tgtaacgtca gctgaaggga aacaaacaaa aaggaaccag aggccacg

48

<210> 78

<211> 51

<212> DNA

<213> Homo sapiens

<400> 78

aaaaaactga aactcagcct gaaagatgaa cagaacaaaa cagaaatcct g

51

<210> 79

<211> 51

<212> DNA

<213> Homo sapiens

<400> 79

acacggttat agacaaagaa aaaactgaaa cccagcatca aagaggaaca g

51

<210> 80

<211> 51

<212> DNA

<213> Homo sapiens

<400> 80

tacaaaatgg aaaaacagaa caaacagaa aacctaaagc tgtattgctg g

51

<210> 81

<211> 56

<212> DNA

<213> Homo sapiens

<400> 81

agtagtaagt tttgctttac aaattcttac attgcagaat cgtctgcatc agctag

56

<210> 82

<211> 51

<212> DNA

<213> Homo sapiens

<400> 82

cgccagcgcg ggaaccggga aaaggaaacc gtgttggtgta cgtaagattc g

51

<210> 83

<211> 36

<212> DNA

<213> Homo sapiens

<400> 83

gctgctagaa agaaacgaaa ctgaaagcag ggaatg

36

<210> 84
<211> 47
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<213> Homo sapiens

<400> 84
ctttgtaggt ttttgttttc ttttgatttc agtttccatt tcctctg 47

<210> 85
<211> 58
<212> DNA
<213> Homo sapiens

<400> 85
gttaaatact ttcacttctc ttttcccat ttgggcggag ccctttctga gtcagtcg 58

<210> 86
<211> 63
<212> DNA
<213> Homo sapiens

<400> 86
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cgg 63

<210> 87
<211> 42
<212> DNA
<213> Homo sapiens

<400> 87
gtaacaaaag cgaaactcca tctcaaaaaa agaaacgcaa gg 42

<210> 88
<211> 61
<212> DNA
<213> Homo sapiens

<400> 88
aaatgtaaat gacataggaa aactgaaagg gagaagtgaag agtgggaaat tcctctgaat 60
g 61

<210> 89
<211> 59
<212> DNA
<213> Homo sapiens

<400> 89
ctaaaatgta aatgacatag gaaaactgaa agggagaagt gaaagtggga aattcctct 59

<210> 90
<211> 40
<212> DNA
<213> Homo sapiens

<400> 90
tgctattatg aaggaaaaaa gtgaaatgga aattaaaaac 40

<210> 91
<211> 29
<212> DNA
<213> Homo sapiens

<400> 91
ctcgggaaag ggaaaccgaa actgaagcc 29

<210> 92
<211> 48
<212> DNA
<213> Homo sapiens

<400> 92
agcctgattt ccccgaaatg acggcagcct gatttccccg aaatgacg 48

<210> 93
<211> 69
<212> DNA
<213> Homo sapiens

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tttcagaaac agttcatgtt ttggaaagtg aaacctaatt cactattacc aaaaaaagag 60
gagcagagg 69

<210> 94
<211> 65
<212> DNA
<213> Homo sapiens

<400> 94
tgatgttttc attcagggac ttgaaacttg ttttaacaca tgagcaatgt tttccctcaa 60
aatag 65

<210> 95
<211> 50
<212> DNA
<213> Homo sapiens

<400> 95
aaggccctcc ctggaggaga actgaaactt aggggtgggga ctgtagaaag 50

<210> 96
<211> 48
<212> DNA
<213> Homo sapiens

<400> 96
agggcggcgc agggcggcgc ttctcgaaa gcgaaagccg gcggggcg 48

<210> 97
<211> 40
<212> DNA
<213> Homo sapiens

<400> 97
cttctgagtc ttagagaaaa aggaactgga gccccagacc 40

<210> 98
<211> 50
<212> DNA
<213> Homo sapiens

<400> 98
aacacatgta gagagtgcaa aaagaaagca aaaacagaca tagaaagtaa 50

<210> 99
<211> 46
<212> DNA
<213> Homo sapiens

<400> 99
gagtgcata gaaggaaagcaa aaacagaaat ggaaagtggc ccagaa 46

<210> 100
<211> 57
<212> DNA
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<220>
<223> Description of artificial sequence: synthetic VRE
(virus-responsive element) derived from natural sequence

<400> 100
gggaaaccga aagtgggaaa ccgaaagtgg gaaaccgaaa gtgggaaacc gaaagtg 57

<210> 101
<211> 54
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: synthetic ISRE
(IFN-responsive element)

<400> 101
tactttcgct ttccactttc gctttcctca ctttcgcttt cctactttcg cttt 54

<210> 102
<211> 57
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: synthetic ISRE
(IFN-responsive element) derived from natural sequence

<400> 102

gggaaaccga aactaggaaa ccgaaactga ggaaaccgaa actggaaacc gaaacta 57

<210> 103
<211> 40
<212> DNA
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<220>
<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 103
gagaagtgaa agtgagaagt gaaagtgaga agtgaaagtg 40

<210> 104
<211> 53
<212> DNA
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<220>
<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 104
agaaatggaa agtgagaagt gaaagtagaa atggaaagtg agaagtgaaa gtg 53

<210> 105
<211> 57
<212> DNA
<213> Artificial sequence

<220>
<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 105
agaaatggaa agtagaaatg gaaagtactg cgagaagtga aagtgagaag tgaaagt 57

<210> 106
<211> 51
<212> DNA
<213> Homo sapiens

<400> 106
agtgtctgat ttgcaaaagg aaagtgcaaa gacagctcct cccttctgag g 51

<210> 107
<211> 36
<212> DNA
<213> Homo sapiens

<400> 107
gctgctagaa agaaacgaaa ctgaaagcag ggaatg 36

<210> 108
<211> 57
<212> DNA

<213> Artificial sequence

<220>

<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 108

gggaaaccga aagtaggaaa ccgaaagtga ggaaaccgaa agtggaaacc gaaagta 57

<210> 109

<211> 57

<212> DNA

<213> Artificial sequence

<220>

<223> Description of artificial sequence: synthetic VRE (virus responsive element) derived from natural sequence

<400> 109

gggaaagcga aagtgggaaa gcgaaagtgg gaaagcgaaa gtgggaaagc gaaagtg 57