

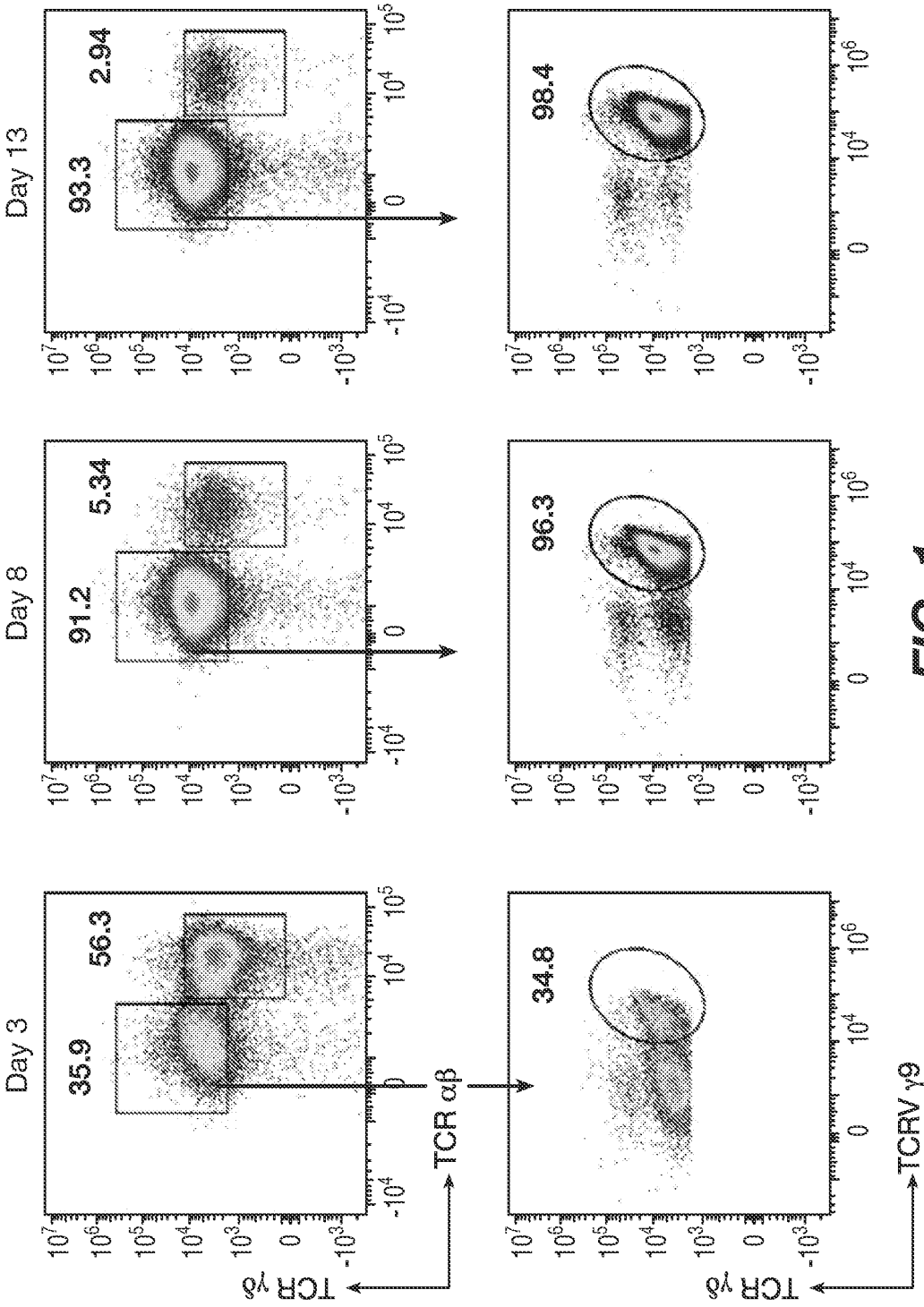


FIG. 1

2/19

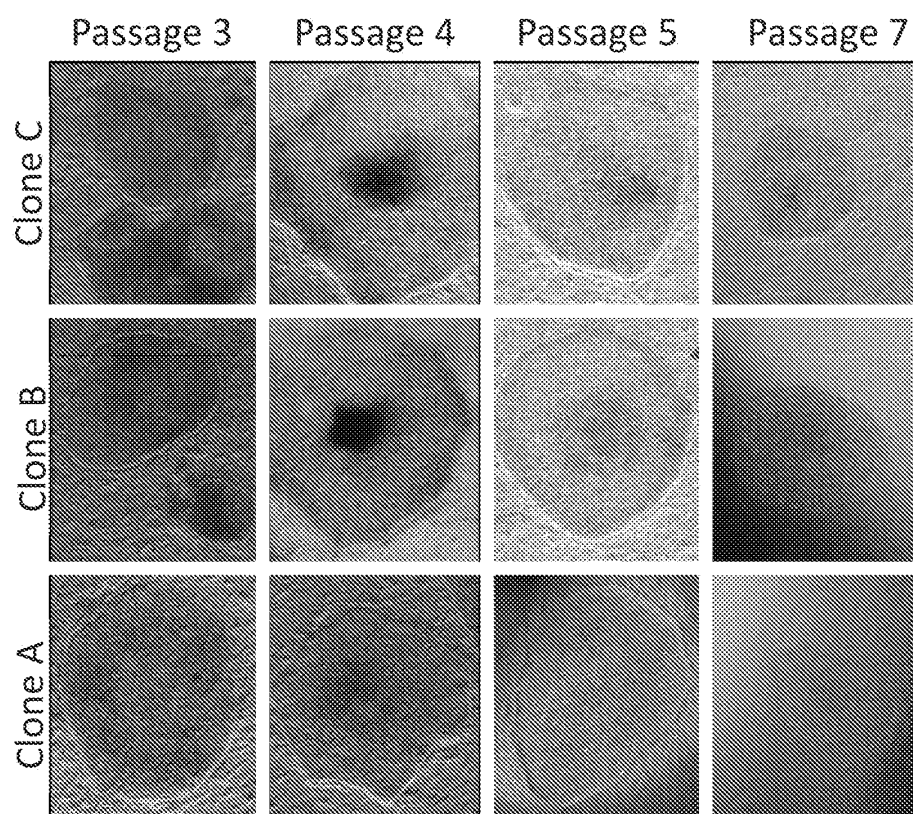


FIG. 2B

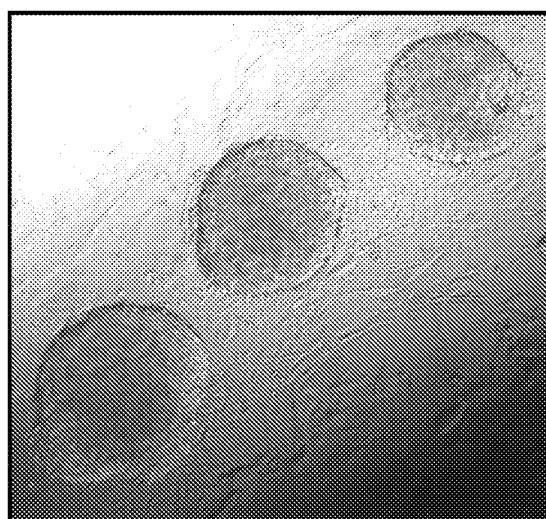
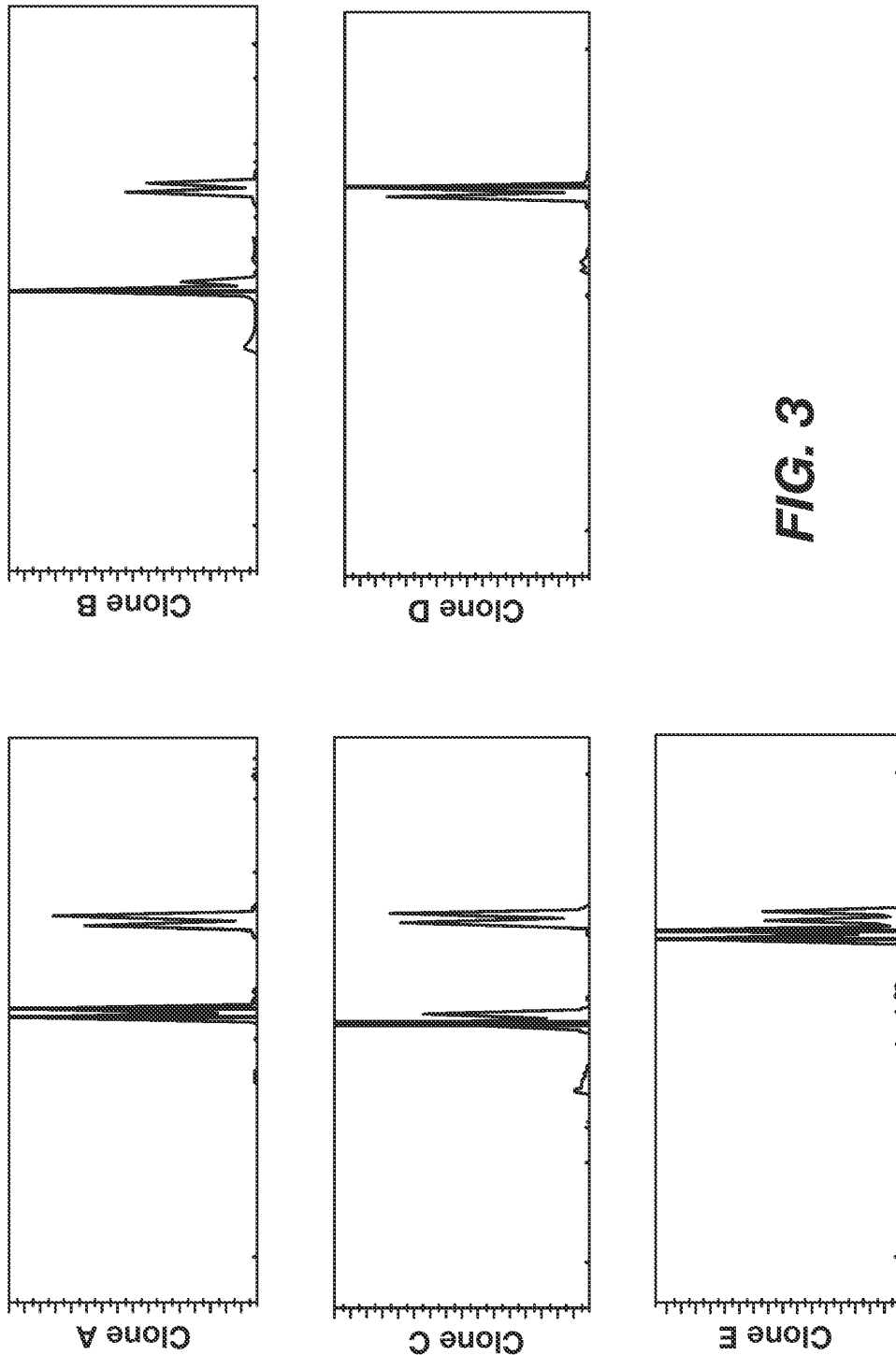


FIG. 2A



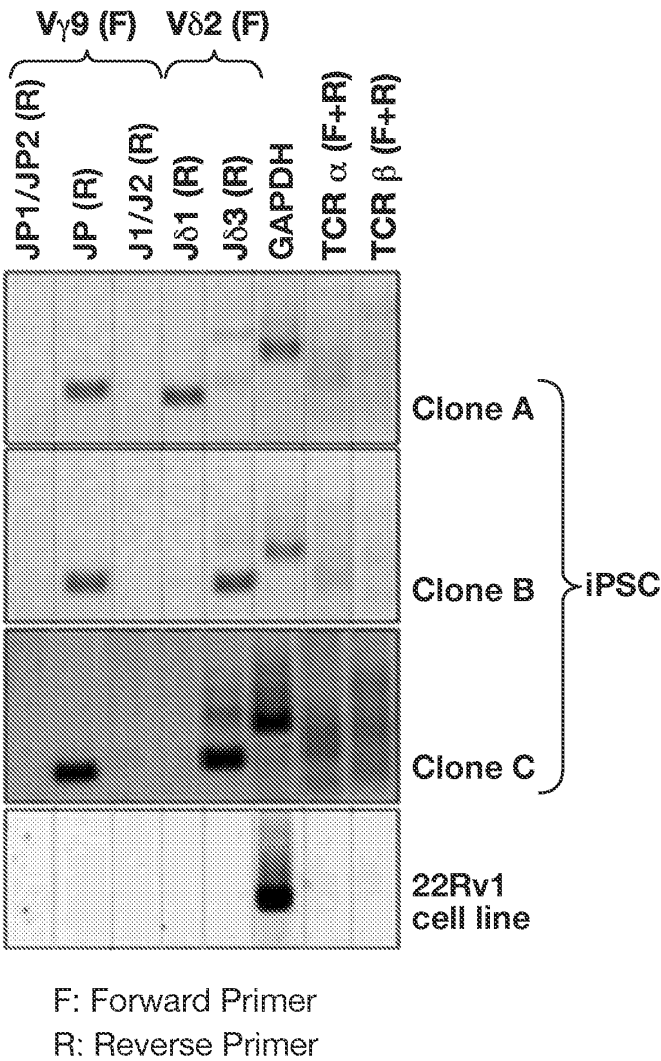


FIG. 4

Clone B

Vy9 amplicon sequence:

GCAACATCTGTATATTGGTATCGAGAGAGACCTGGTGAAGTCATACAGTTCTCTGGTGCCATTTTCATATGACGGCACTGTGCAGAA
AGGAATCCGGCATTCGGTCAGGGCAAATTTGAGGTGGATAGGATACCTGGAACGCTACATCCACTCTCACCATTCAATGTAGA
GAAACAGGACATAGCTACTACTGTGCTTGTGGAGACACAGAGTTGGGCAAAAAATCAAGGTATTGGTCCCGGAAC
AAAG (SEQ ID NO: 7)

1a. blastn (sequence alignment for Vy9 amplicon sequence)

Query	1	GCAACAICTGTATATTGGTATCGAGAGAGACCTGGTGAAGTCATACAGTTCTCTGGTGCC	60
Subject	94	GCAACAICTGTATATTGGTATCGAGAGACCTGGTGAAGTCATACAGTTCTCTGGTGCC	153
Query	61	ATTTCATATGACGSCACTGTTCAGAAAGGAAATCCGSCATTCGCTCAGGCAAAATTGAGGTG	120
Subject	154	ATTTCATATGACGSCACTGTTCAGAAAGGAAATCCGSCATTCGCTCAGGCAAAATTGAGGTG	213
Query	121	GATAGGATACCTGAAACGCTACATCCACTCTCACCATTCAATGTAGAGAAACAGGAC	180
Subject	214	GATAGGATACCTGAAACGCTACATCCACTCTCACCATTCAATGTAGAGAAACAGGAC	273
Query	181	ATAGCTACTACTACTGTGSCCTTGTGGAGACACAGAGTTGGSCAAAAATCAGGTA	240
Subject	274	ATAGCTACTACTACTGTGSCCTTGTGGAGAACCAAGAGTTGGSCAAAAATCAGGTA	333
Query	241	TTTGGTCCCGGACAAAG	258 (SEQ ID NO: 7)
Subject	334	TTTGGTCCCGGACAAAG	351 (SEQ ID NO: 8)

FIG. 5

V62 amplicon sequence:

GCCTTATACCGAGAAAGGACATCTATGGCCCTGGTTTCAAGACAATTTCCAAGTGACATTGATATTGCAAGAACCTGGCT
GTACTTAAGATACTTGACCATCAGAGAGAGATGAAGGCTTACTACTGTGCTGTGACACCGTAAATGGGGSATACGCGTC
ACCGATAAACTCATCTTTGGAAAAGGAACCGGTGTGACTGTGGAAACAAGGGC (SEQ ID NO: 9)

2a. blastn (sequence alignment for V62 amplicon sequence)

Query	6	TATACCGAGAAAGGACATCTATGGCCCTGGTTTCAAGACAATTTCCAAGTGACATTG	65
Subject	146	TATACCGAGAAAGGACATCTATGGCCCTGGTTTCAAGACAATTTCCAAGTGACATTG	205
Query	66	ATATTGCAAGAACCTGGCTGTGACTTAAGTACTTGCACCTTCAGAGAGAGTGAAGGT	125
Subject	206	ATATTGCAAGAACCTGGCTGTGACTTAAGTACTTGCACCTTCAGAGAGAGTGAAGGT	265
Query	126	CTTACTACTGTGCTGTGACACCGTAA-A-TGGGGGATAGCG-GTACCTGATAACATCA	182
Subject	266	CTTACTACTGTGCTGTGACACCGTGTAGTACTGGGGSATACCTGACACCGATTAATCA	325
Query	183	TCTTTGGAAGAGAACCTGTGTACTGTGGAAC-AAG	218 (SEQ ID NO: 10)
Subject	326	TCTTTGGAAGAGAACCTGTGTACTGTGGAACAG	362 (SEQ ID NO: 11)

FIG. 5 (cont')

7/19

Clone A**Vγ9 amplicon sequence:**

ATGCATGCTCGAGCGGCCGCGCAGTGTGATGGATATCTGCAGAATTCGCCCTTTGTAATGATAAGCTTTGTTCCGGGACCAAAATAC
 CTTGATTTTTTGGCCAACTCCAGCACCTCCACAAGGCACAGTAGTAGGTAGCTATGTCCTGTTTCTCTACATTGTGAATGGTGA
 GAGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCCTGACGGAATGCCGGATTCCCTTCTGACAGTGCCGTCATAT
 GAAATGGACACCAGGAAGCTGTATGACTTCACCAGGTCTCTCTCGATACCAATATACAGATGTTGCAGAAATTGTTATTCAGACA
 CCACACATTCAGGCGGGCTGTTTTGACAGCGTTTACTAGTGGAAATTTGAGGTTGCTCTAGGTGACCTGCAAGGGCGAATTC
 CAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGATGCATAGCTTGAGTA (SEQ ID NO: 1)

1a. blastn (sequence alignment for Vγ9 amplicon sequence)

Query	53	TGTAATGATAAGCTTTGTTCCGGGACCAAAATACCTTGA	112
Sbjct	363	TGTAATGATAAGCTTTGTTCCGGGACCAAAATACCTTGA	304
Query	113	CTCCACCAAGGCACAGTAGTAGGTAGCTATGTCCTGTTTCTCTACATTGTGAATGGTGA	172
Sbjct	393	CTCCACCAAGGCACAGTAGTAGGTAGCTATGTCCTGTTTCTCTACATTGTGAATGGTGA	244
Query	172	AGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCCTGACGGAATGCCGGA	232
Sbjct	243	AGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCCTGACGGAATGCCGGA	184
Query	233	TTCCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTCACCAGG	292
Sbjct	183	TTCCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTCACCAGG	124
Query	293	TCTCTCTCGATACCAATATACAGATGTTGCAGAAATTTGTTATTCAGACACCACACATTC	352
Sbjct	123	TCTCTCTCGATACCAATATACAGATGTTGCAGAAATTTGTTATTCAGACACCACACATTC	64
Query	353	CAGCGGGCTGTTTTGACAGCGTTTTAGTACTGGAAATTTGAGGTTGCTCTAGGTGACC	412
Sbjct	63	CAGCGGGCTGTTTTGACAGCGTTTTAGTACTGGAAATTTGAGGTTGCTCTAGGTGACC	4
Query	413	TCG 415 (SEQ ID NO: 2)	
Sbjct	3	TCG 1 (SEQ ID NO: 3)	

FIG. 6A

8/19

V62 amplicon sequence:

AGAAGGGGGGGCGGGGCCCTATGAATGATTGCGCCAGCTTTTGGTGACCTATACAATACTCGGCTATGCATCAGCTTGGTACCG
 ATTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCTCCCTTATACCGAGAAAAGGACATCTATGGCCCTGGTTACAAA
 GACAATTTCCAAGGTGACATTGATATTGCCAGAACCTGGCTGTACTTAAAGATACTTGCAACCATCAGAGAGAGATGAAGGGTCTT
 ACTACTGTGCCTGTGACACCGTGGGGGAACAAACCGATAAACTCATCTTTGGAAAAGGAACCGTTGTGACTGTGGAACAAGGG
 CGAATTCTGCAGATATCCATCACACTGGCGGCCGCTCGAGCATGCATCTAGAGGGCCCAAT (SEQ ID NO: 4)

2a. blastn (sequence alignment for V62 amplicon sequence)

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Query  133  TATACCGAGAAAAGGACATCTATGGCCCTGGTTACAAAGACAATTTCCAAGGTGACATTG  191
          |||
Sbjct  161  TATACCGAGAAAAGGACATCTATGGCCCTGGTTTCAAAGACAATTTCCAAGGTGACATTG  220

Query  192  ATATTGCCAGAACCTGGCTGTACTTAAAGATACTTGCACCATCAGAGAGAGATGAAGGGT  251
          |||
Sbjct  221  ATATTGCCAAGAACCTGGCTGTACTTAAAGATACTTGCACCATCAGAGAGAGATGAAGGGT  280

Query  252  CTTACTACTGTGCCTGTGACACCGTGGGGGA-ACA-A-ACCGATAAACTCATCTTTGGAA  308
          |||
Sbjct  281  CTTACTACTGTGCCTGTGACACCGTGGGGGATACCGACACCGATAAACTCATCTTTGGAA  340

Query  309  AAGGAACCCGTTGTGACTGTGGAAC-AAG  336 (SEQ ID NO: 5)
          |||
Sbjct  341  AAGGAACCCG-TGTGACTGTGGAACCAAG  368 (SEQ ID NO: 6)

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FIG. 6A (cont')

9/19

Clone C**Vy9 amplicon sequence**

CCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTAAACGA
 CGGCCAGTGAATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCCGCAGTGTGATGGAT
 ATCTGCAGAATTCAGGCCTGAATTCGCCCTTTGTAATGATAAGCTTTGTTCCGGGACCAAATACCTTGATTTTTGCCCAACTCTT
 GTGTCTCCACAGAAGGCACAGTASTAGTAGCTATGTCTGTTTCTCTACATTGTGAATGGTGAGAGTGGATGTAGACGTTTCAGG
 TATCCTATCCACCTCAAATTTGCCTGACGGAATGCCGGATTCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGA
 TGAATTCACCAAGGCTCTCTCGATACCAATATACAGATGTTGCAGAAATTGTTATTCAGACACCACACATTCCAGGCGGGCTGTT
 TTTGACAGCGTTTTAGTACTGGAATTTGAGGTTGCTCTAGGTGACCTGCAAGGGCGAATTCAGCACACTGGCGGCGTTACTA
 GTGGATCCGAGCTCGGTACCAAGCTTGATGCATAGCTTGAGTATTCTATAGTGTACCTAAATAGCTTGGCGTAATCATGGTCAT
 AGCTGTTTCTGTGTGAAATTTGTTATCGCTCACAATTCACACAACATACGAGCGGGAAGCATAAAGTGTAAGCCTGGGGTG
 CCTAATGAGTGAGCTAACTACATTAATTGCGTTGCGCTCACTGCCCGCTTCC (SEQ ID NO: 12)

1a. blastn (sequence alignment for Vy9 amplicon sequence)

Query	199	TGTAATGATAAGCTTTGTTCCGGGACCAAATACCTTGA	258
Sbjct	363	TGTAATGATAAGCTTTGTTCCGGGACCAAATACCTTGA	304
Query	289	CTCCACACAGGCACAGTASTAGTAGCTATGTCTGTTTCTCTACATTGTGAATGGTGAC	319
Sbjct	303	CTCCACACAGGCACAGTAGTAGGTAGCTATGTCTGTTTCTCTACATTGTGAATGGTGAC	244
Query	319	AGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCTGACCGGAATGCCGGA	378
Sbjct	243	AGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCTGACCGGAATGCCGGA	184
Query	379	TTCCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTCACCCAGG	438
Sbjct	183	TTCCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTCACCCAGG	124
Query	439	TCTCTCTCGATAACCAATATACAGATGTTGCAGAAATTGTTATTCAGACACCACACATTTC	498
Sbjct	123	TCTCTCTCGATAACCAATATACAGATGTTGCAGAAATTGTTATTCAGACACCACACATTTC	64
Query	499	CAGGCGGGCTGTTTTTACAGCGTTTTAGTACTGGAATTTGAGGTTGCTCTAGGTGACC	558
Sbjct	63	CAGGCGGGCTGTTTTTACAGCGTTTTAGTACTGGAATTTGAGGTTGCTCTAGGTGACC	4
Query	559	TGC	561 (SEQ ID NO: 13)
Sbjct	3	TGC	1 (SEQ ID NO: 14)

FIG. 6B

10/19

Clone D**Vy9 amplicon sequence:**

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGCAGGTCAC
 CTAGAGCAACCTCAAATTTCCAGTACTAAAACGCTGTCAAAAACAGCCCGCTGGAATGTGTGGTGTCTGGAATAACAATTTCTG
 CAACATCTGTATATTGGTATCGAGAGAGACCTGGTGAAGTCATACAGTTCTGGTGTCCATTTATATGACGGCACTGTCAGAAA
 GGAATCCGGCATTCCGTCAGGCAAATTTGAGGTGGATAGGATACCTGAAACGCTCTACATCCACTCTCACCATTACAATGTAGAG
 AAACAGGACATAGCTACCTACTACTGTGCCTTGTGGGAGTCAACAAGAGTTGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACA
 AAGCTTATCATTACAAAGGGCGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGATGCATA
 GCTTGAGTATTCTATAG (SEQ ID NO: 15)

1a. blastn (sequence alignment for Vy9 amplicon sequence)

Query	76	GCAGGTCACCTAGAGCAACCTCAAATTTCCAGTACTAAAACGCTGTCAAAAACAGCCCGC	136
Sbjct	1	GCAGGTCACCTAGAGCAACCTCAAATTTCCAGTACTAAAACGCTGTCAAAAACAGCCCGC	60
Query	136	CTGGAATGTGTGGTGTCTGGAATAACAATTTCTGCAACATCTGTATATTGGTATCGAGAG	196
Sbjct	61	CTGGAATGTGTGGTGTCTGGAATAACAATTTCTGCAACATCTGTATATTGGTATCGAGAG	120
Query	196	AGACCTGGTGAAGTCATACAGTTCCTGGTGTCCATTTCAATGACGGCACTGTCAGAAAG	256
Sbjct	121	AGACCTGGTGAAGTCATACAGTTCCTGGTGTCCATTTCAATGACGGCACTGTCAGAAAG	180
Query	256	GAAATCCGGCATTCCGTCAGGCAAATTTGAGGTGGATAGGATACTGAAACGCTCTACATCC	316
Sbjct	191	GAAATCCGGCATTCCGTCAGGCAAATTTGAGGTGGATAGGATACTGAAACGCTCTACATCC	240
Query	316	ACTCTCACCATTTCACAATGTAGAGAAACAGGACATAGCTACCTACTACTGTGCCTTGTGG	376
Sbjct	241	ACTCTCACCATTTCACAATGTAGAGAAACAGGACATAGCTACCTACTACTGTGCCTTGTGG	300
Query	376	GAG-TCACAGAGTTGGGCAAAAAATCAAGCTATTTGGTCCCGGAACAAAGCTTATCAT	434
Sbjct	301	GAGATC-CAGAGTTGGGCAAAAAATCAAGCTATTTGGTCCCGGAACAAAGCTTATCAT	359
Query	435	TACA	436 (SEQ ID NO: 16)
Sbjct	360	TACA	363 (SEQ ID NO: 17)

FIG. 6C

11/19

V&Z amplicon sequence:

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTATACCGAGAAAAGGACATCT
 ATGGCCCTGGTTTCAAAGACAATTTCCAAGGTGACATTGATATTGCAAAGAACCTGGCTGTACTTAAGATACTTGCACCATCAGA
 GAGAGATGAAGGGTCTTACTACTGTGCCTGTGACACCTTACTTCTGGGGGACCGTACACCGATAAACTCATCTTTGGAAAAGGA
 ACCCGTGTGACTGTGGAACAAGGGCGAATTCAGCACACTGGCGGCCCTTACTAGTGGATCCGAGCTGGTACCAAGCTTGATG
 CATAGCTTGAGTATTCTATAG (SEQ ID NO: 18)

2a. blastn (sequence alignment for V&Z amplicon sequence)

Query	68	TATACCGAGAAAAGGACATCTATGGCCCTGGTTTCAAAGACAATTTCCAAGGTGACATTG	124
Sbjct	237	TATACCGAGAAAAGGACATCTATGGCCCTGGTTTCAAAGACAATTTCCAAGGTGACATTG	296
Query	125	ATATTGCAAAGAACCTGGCTGTACTTAAGATACTTGCACCATCAGAGAGAGATGAAGGGT	184
Sbjct	297	ATATTGCAAAGAACCTGGCTGTACTTAAGATACTTGCACCATCAGAGAGAGATGAAGGGT	356
Query	185	CTTACTACTGTGCCTGTGACACCTTACTTCTGGGGGAC--C-GTACACCGATAAACTCA	241
Sbjct	357	CTTACTACTGTGCCTGTGACACCTTGGCTACTGGGGGACGACTGTACACCGATAAACTCA	416
Query	242	TCTTTGGAAAGGAACCGTGTGACTGTGGAC--AAG	277 (SEQ ID NO: 19)
Sbjct	417	TCTTTGGAAAGGAACCGTGTGACTGTGGAC--AAG	453 (SEQ ID NO: 20)

FIG. 6C (cont')

12/19

Clone E**Vy9 amplicon sequence:**

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCASTGTGATGGATATCTGCAGAATTCGCCCTTTGTAATGATAAGCT
 TTGTTCCGGGACCAAATACCTTGATTTTTTGGCCAACTCTTGTAGCTCCCAAGGCACAGTAGTAGCTATGTCTGTTTCT
 CTACATTGTGAATGGTGAGASTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCWAGCGGAATGCCGGATTCTT
 TCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTACCAGGTCTCTCTCGATACCAATATACAGATGTTGCA
 GAAATTGTTATCCAGACACCACACATTCCAGGCGGGCTGTTTTGACAGCGTTTACTGAAATTTGAGGTTGCTCTAGGT
 GACCTGCAAGGGCGAATTCCAGGCTGAATTCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGATG
 CATAGCTTGAGTATTCTATAGTGTACCTAAATAGCTTGGCGTAAATCATGGTCATAGCTGTTTCTGTGTGAAATTTGTTATCCGC
 TCACAAATTCACACAAACATACGAGCGGAAGCATAAAGTGTAAGCCTGGGGTGCTAATGA (SEQ ID NO: 21)

1a. blastn (sequence alignment for Vy9 amplicon sequence)

Query	72	TGTAATGATAAGCTTTGTTCCGGGACCAAATACCTTGATTTTTTGGCCAACTCTTGTAG	131
Sbjct	363	TGTAATGATAAGCTTTGTTCCGGGACCAAATACCTTGATTTTTTGGCCAACTCTTGTAG	384
Query	132	CTCCACCAAGGCACAGTAGTAGTATGCTCTGTTTCTCTACATTGTGAATGGTGAG	191
Sbjct	303	CTCCACCAAGGCACAGTAGTAGTATGCTCTGTTTCTCTACATTGTGAATGGTGAG	244
Query	192	AGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCWAGCGGAATGCCGGA	251
Sbjct	243	AGTGGATGTAGACGTTTCAGGTATCCTATCCACCTCAAATTTGCCWAGCGGAATGCCGGA	284
Query	252	TTCCCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTCAACAGG	311
Sbjct	183	TTCCCTTTCTGACAGTGCCGTCATATGAAATGGACACCAGGAAGTGTATGACTTCAACAGG	124
Query	312	TCTCTCTCGATAACCAATATACAGATGTTGCGAGAAATTGTTAATCCAGACACCACACATTC	371
Sbjct	123	TCTCTCTCGATAACCAATATACAGATGTTGCGAGAAATTGTTAATCCAGACACCACACATTC	64
Query	372	CAGGCGGGCTGTTTTTGACAGCGTTTTAGTACTGGAATTTGAGGTTGCTCTAGGTGACC	431
Sbjct	63	CAGGCGGGCTGTTTTTGACAGCGTTTTAGTACTGGAATTTGAGGTTGCTCTAGGTGACC	4
Query	432	TGC	434 (SEQ ID NO: 22)
Sbjct	3	TGC	1 (SEQ ID NO: 23)

FIG. 6D

13/19

V52 amplicon sequence:

TEGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGSATATCTGCAGAATTCAGGCCTGAATTCGCCCTTGTCCACAG
 TCACACGGGTTCTTTTCCAAAGATGAGTTTATCGGTGTACTTCTACCCCCAGTAGAGTAGCAGGCACAGTATTAAGACCCCTTCAT
 CTCTCTGATGGTGCAAGTATCTTAAGTACAGCCAGGTTCTTTGCAATATCAATGTCACCTTGGAAATTGTCTTTGAAACCAGGG
 CCATAGATGTCCTTTTCTCGG (SEQ ID NO: 24)

2a. blastn (sequence alignment for V52 amplicon sequence)

```

Query 74   CTT-GTTCACAGTCACACGGGTTCCCTTTTCCAAAGATGAGTTTATCGGTGT-ACCTCTA 131
          ||| |||||
Sbjct 356   CTIGGTTCCACAGTCACACGGGTTCCCTTTTCCAAAGATGAGTTTATCGGTGTTCCTTTA 297

Query 132  -CCCCAGTAAAGTAGCAGGCACAGTATTAAGACCCCTTCATCTCTCTGATGGTGCAAG 190
          ||||| ||| |||||
Sbjct 296   TCCCCAGTA-TGTCACAGGCACAGTAGTAAGACCCCTTCATCTCTCTGATGGTGCAAG 238

Query 191  TATCTTAAGTACAGCCAGGTTCTTTGCAATATCAATGTCACCTTGGAAATTGTCTTTGAA 250
          |||||
Sbjct 237  TATCTTAAGTACAGCCAGGTTCTTTGCAATATCAATGTCACCTTGGAAATTGTCTTTGAA 178

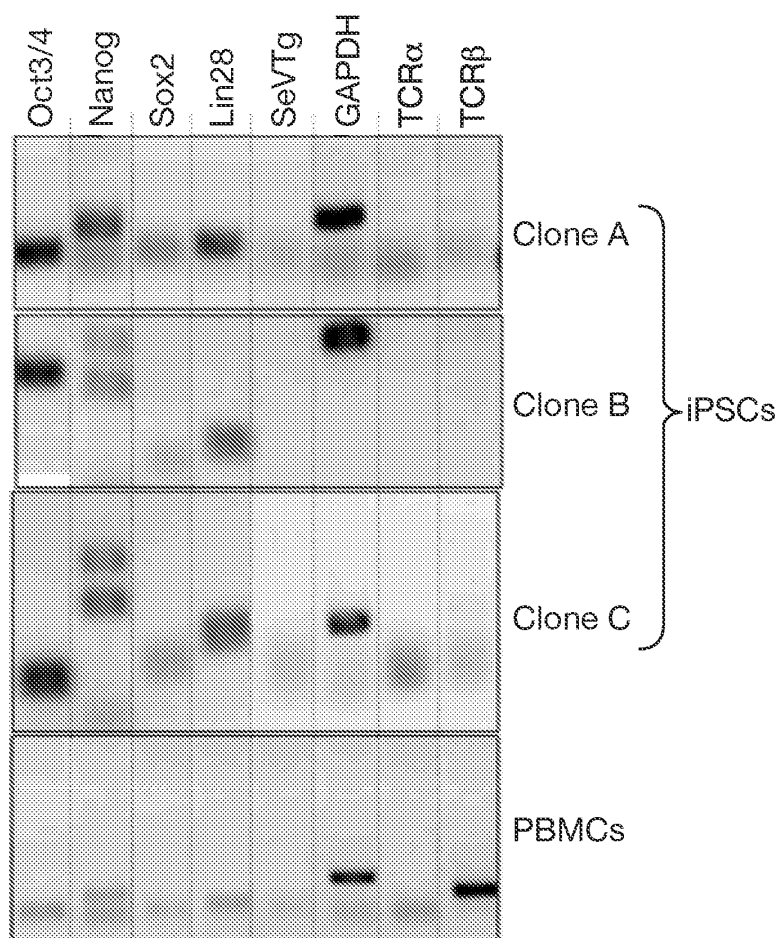
Query 251  ACCAGGGCCATAGATGTCCTTTTCTCGG 278 (SEQ ID NO: 25)
          |||||
Sbjct 177  ACCAGGGCCATAGATGTCCTTTTCTCGG 160 (SEQ ID NO: 26)

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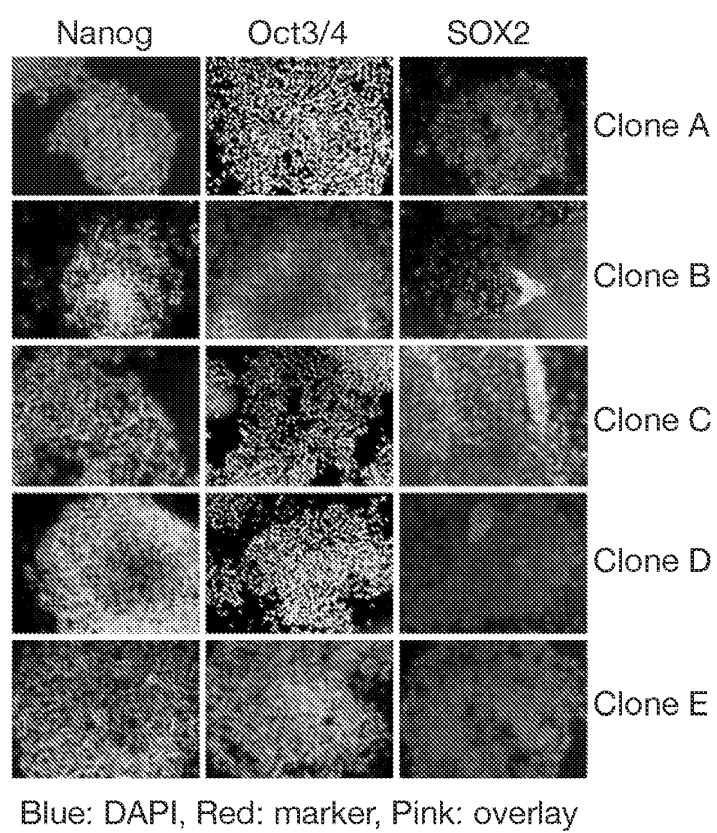
FIG. 6D (cont')

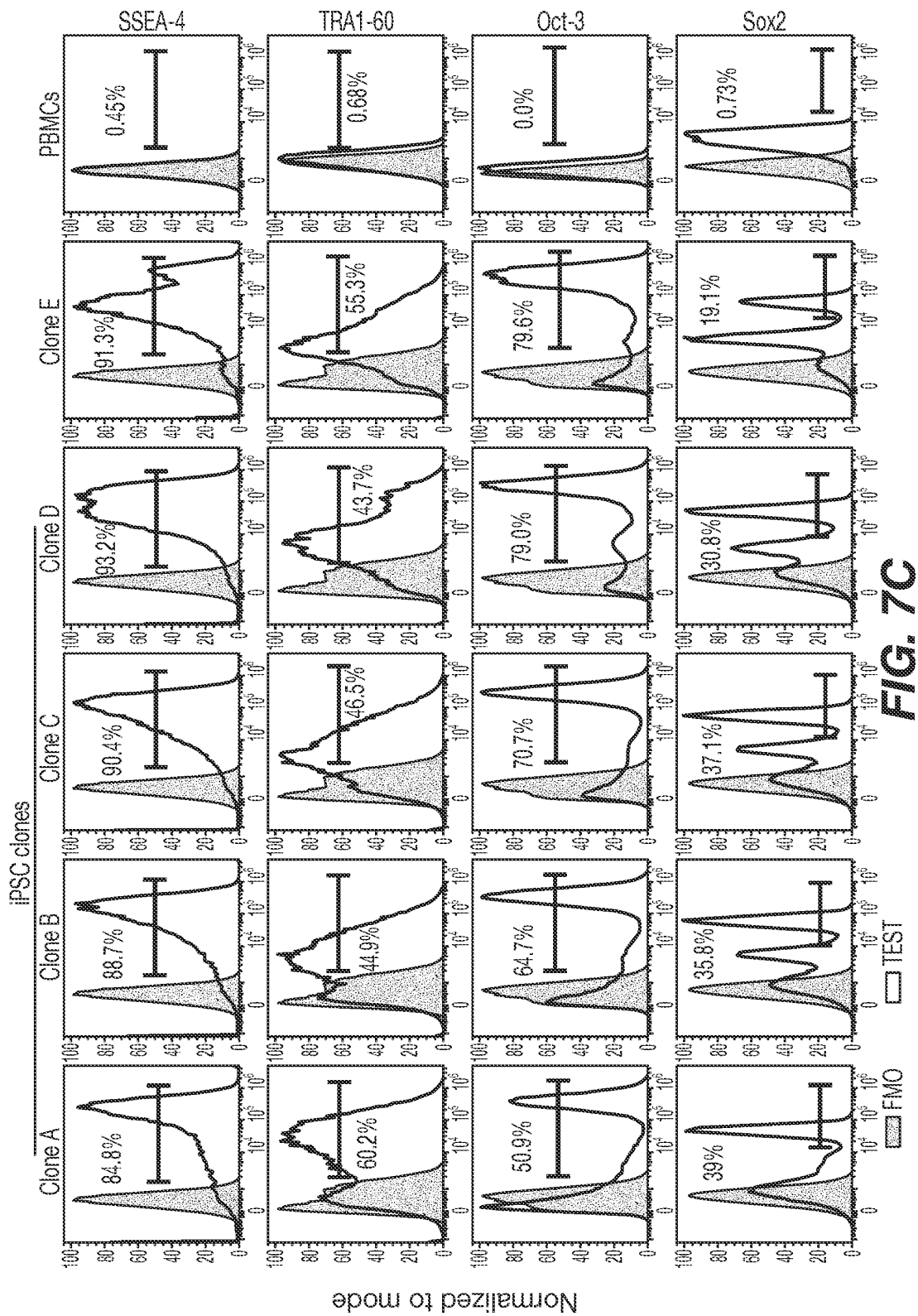
14/19

RT PCR for pluripotent markers

**FIG. 7A**

15/19

**FIG. 7B**



17/19

Clone B

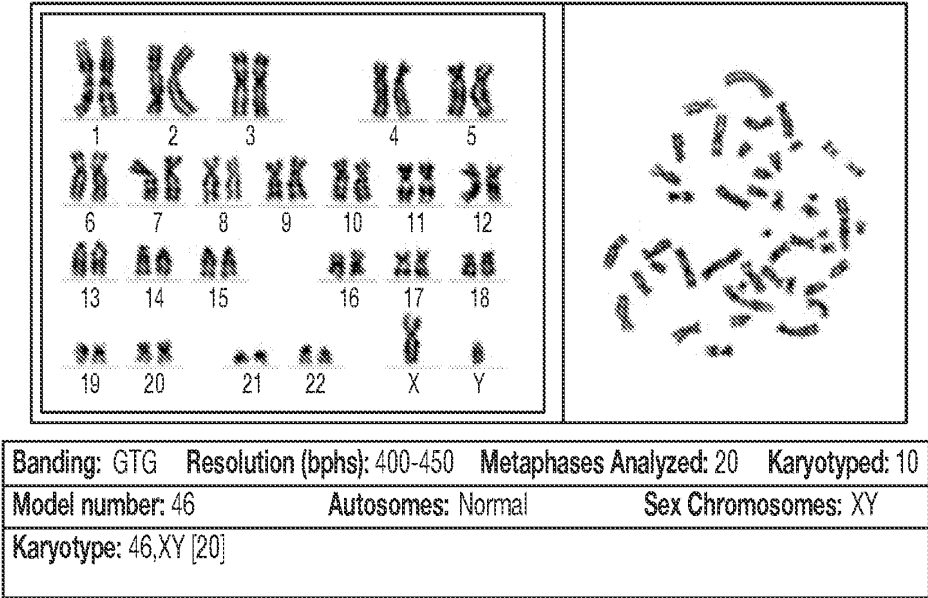


FIG. 8A

Clone D

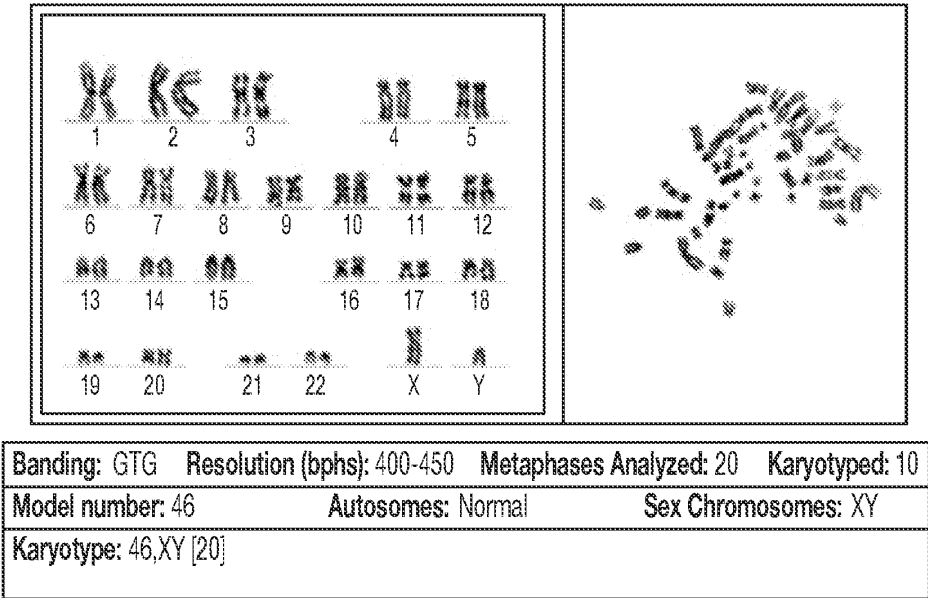
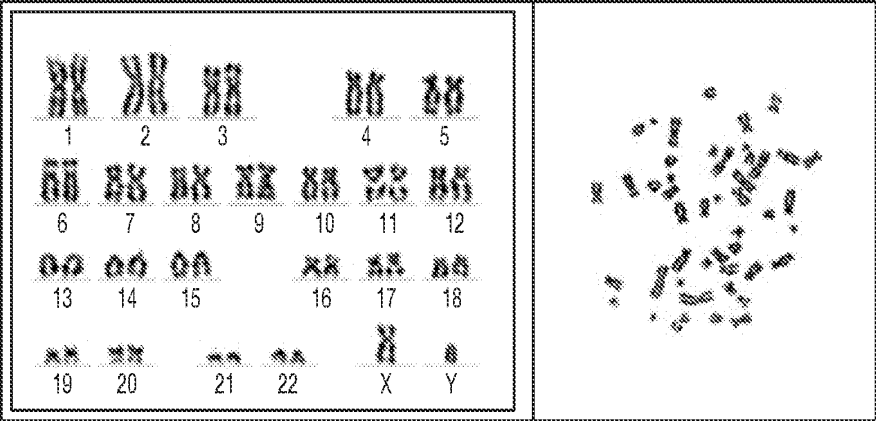


FIG. 8B

Clone C

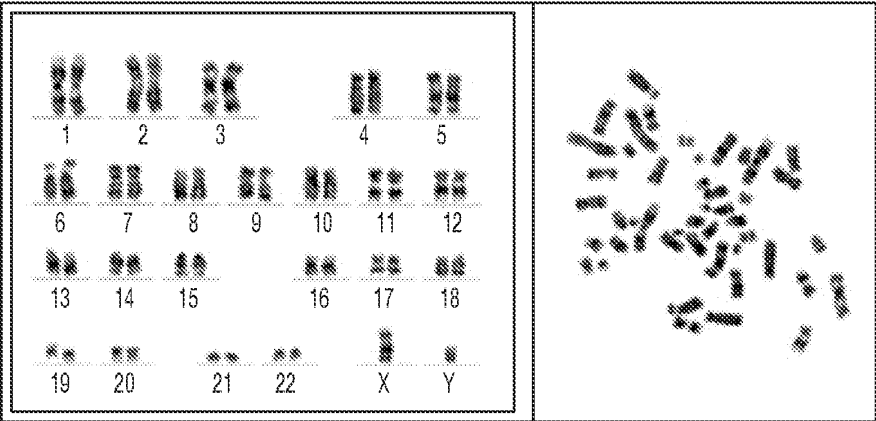


Banding: GTG	Resolution (bphs): 400-450	Metaphases Analyzed: 20	Karyotyped: 10
Model number: 46	Autosomes: Normal	Sex Chromosomes: XY	
Karyotype: 46,XY [20]			

Impression: Normal Karyotype.

FIG. 8C

Clone E

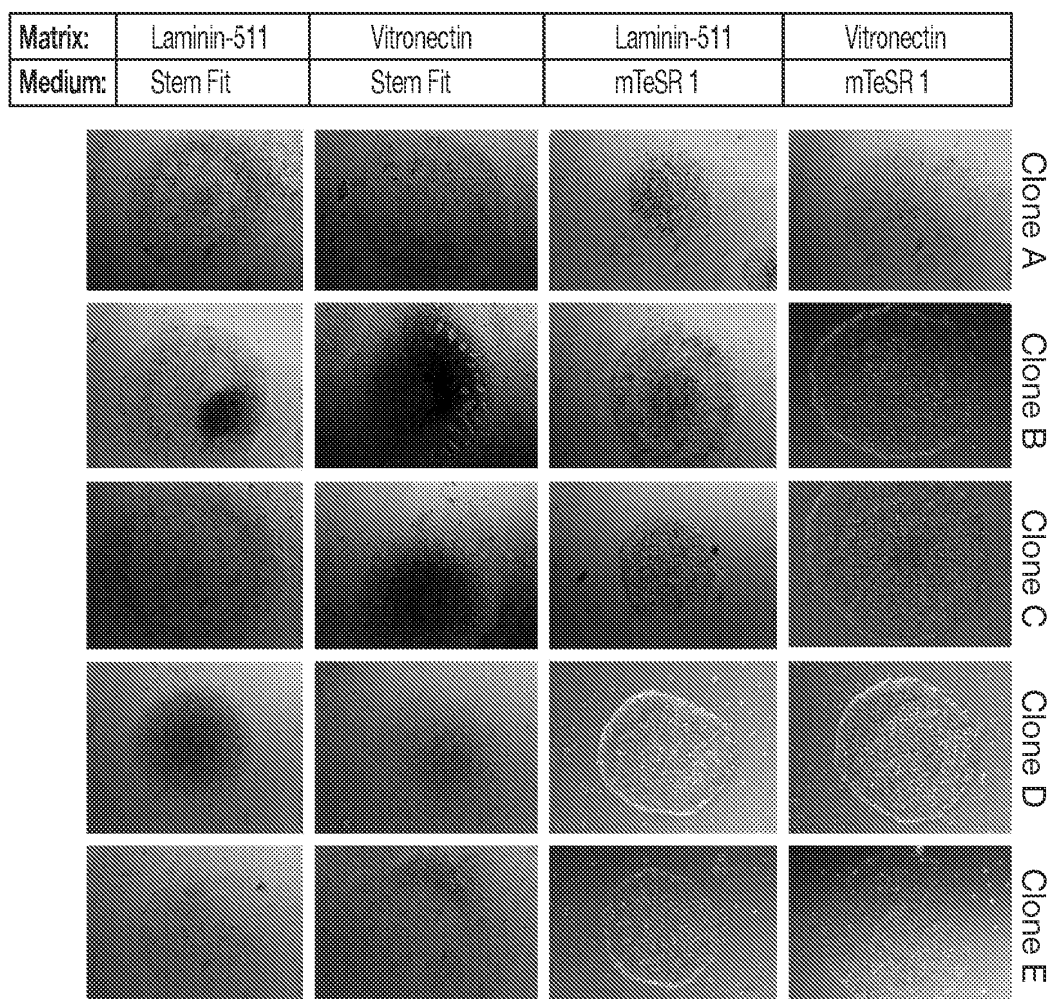


Banding: GTG	Resolution (bphs): 400-450	Metaphases Analyzed: 10	Karyotyped: 08
Model number: 46	Autosomes: Normal	Sex Chromosomes: XY	
Karyotype: 46,XY [10]			

Impression: Normal Karyotype with low mitotic index.

FIG. 8D

19/19

**FIG. 9**