

Standard Operating Procedure for Single Cell TCR Sequencing (sc-rhTCRseq¹)

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Date

Reagents

- NEBNext Single Cell/Low Input cDNA Synthesis & Amplification Module (New England BioLabs, cat. no. E6421L). This kit contains NEBNext Cell Lysis Buffer (10×), Murine RNase Inhibitor, NEBNext Single Cell RT Primer Mix, NEBNext Single Cell RT Buffer (4×), NEBNext Template Switching Oligo, NEBNext Single Cell RT Enzyme Mix, NEBNext Single Cell cDNA PCR Master Mix (2×), and NEBNext Single Cell cDNA PCR Primer.
- Proteinase K (800 units/mL, New England BioLabs, cat. no. P8107S)
- Prionex (MilliporeSigma, cat. no. G0411-100ML)
- Elastase Inhibitor III (AAPV, MilliporeSigma, cat. no. 324745-5MG)
- ProNex Size-Selective Purification System (125 mL, Promega, cat. no. NG2002)
- Quant-iT High-Sensitivity dsDNA Assay Kit (Thermo Fisher, cat. no. Q33120)
- Water, PCR certified (Teknova, cat. no. W3331)
- TE Buffer (10 mM Tris, pH 8.0; 1 mM EDTA, Teknova, cat. no. T0224)
- DNA Suspension Buffer (10 mM Tris, pH 8.0; 0.1 mM EDTA, Teknova, cat. no. T0221)
- P5.IDTxxx.Rd1x.x1 (Tables 3-6) and P7.IDTyyy.Rd2x.x1 (Tables 7-10) oligonucleotides at 200 μM each (Integrated DNA Technologies, custom product). All oligonucleotides are listed in the 5' to 3' direction.
- RNase H2 Enzyme Kit (includes RNase H2 Enzyme at 2 units/μL and RNase H2 Dilution Buffer, Integrated DNA Technologies, cat. no. 11-02-12-01)
- 1 M Tris-HCl, pH 8.4 (Teknova, cat. no. T1084)
- 1 M KCl (Teknova, cat. no. P0325)
- 1 M MgCl₂ (Teknova, cat. no. M0302)
- dNTP Mix, 25 mM each (Thermo Fisher, cat. no. FERR1121)
- Rd1.AVxx.x1 and Rd1.BVxx.x1 oligonucleotides at 500 μM each (Table 11, Integrated DNA Technologies, custom product)
- Rd2.AC.x1 and Rd2.BC.x1 oligonucleotides (Table 11, Integrated DNA Technologies, custom product)
- Hot Start Taq DNA Polymerase (New England BioLabs, cat. no. M0495L)
- AMPure XP beads (Beckman Coulter, cat. no. A63880)
- 200 Proof Ethanol (Decon Labs, cat. no. 2716) **! CAUTION** Ethanol is flammable, keep away from open flame.
- Beads Buffer: 20% polyethylene glycol (PEG 8000), 2.5M sodium chloride (Teknova, cat. no. P4137)
- P5 primer, AATGATACGGCGACCACCGAGATCTACAC at 10 μM (Integrated DNA Technologies, custom product)

- P7 primer, CAAGCAGAAGACGGCATACGAGAT at 10 μ M (Integrated DNA Technologies, custom product)
- Q5 Hot Start HiFi PCR Master Mix (New England BioLabs, cat. no. M0543S)
- 1 N NaOH (MilliporeSigma, cat. no. 109137) ! CAUTION Causes severe skin burns and eye damage.
- PhiX spike-in library (Control v3, Illumina, cat. no. FC-110-3001)
- MiSeq 300-cycle Reagent Kit v2 (Illumina, cat. no. MS-102-2002)

Equipment

- Twin.tec PCR plate (384 wells, LoBind, skirted, PCR clean, colorless, Eppendorf, cat. no. 0030129547)
- Twin.tec PCR plate (96 wells, LoBind, skirted, PCR clean, colorless, Eppendorf, cat. no. 0030129512)
- 0.2-mL PCR 8-tube FLEX-FREE strip (attached clear flat caps, natural, USA Scientific, cat. no. 1402-4700)
- 20- μ L 8-channel pipette (Pipet-Lite Multi Pipette L8-20XLS+, Rainin, cat. no. 17013803)
- 200- μ L 8-channel pipette (Pipet-Lite Multi Pipette L8-200XLS+, Rainin, cat. no. 17013805)
- 2- μ L pipette (Pipet-Lite LTS Pipette L-2XLS+, Rainin, cat. no. 17014393)
- 20- μ L pipette (Pipet-Lite LTS Pipette L-20XLS+, Rainin, cat. no. 17014392)
- 200- μ L pipette (Pipet-Lite LTS Pipette L-200XLS+, Rainin, cat. no. 17014391)
- 1000- μ L pipette (Pipet-Lite LTS Pipette L-1000XLS+, Rainin, cat. no. 17014382)
- 20- μ L pipette tips (RT-LTS-A-10 μ L-/F/L-960/10, Rainin, cat. no. 30389226)
- 200- μ L pipette tips (RT-LTS-A-200 μ L-/F/L-960/10, Rainin, cat. no. 30389240)
- 1000- μ L pipette tips (RT-LTS-A-1000 μ L-/F/L-768/8, Rainin, cat. no. 30389213)
- 10x magnetic separation stand for 8-tube strip (10x Genomics, cat. no. 230003)
- MagnaBot 384 magnetic separation stand (Promega, cat. no. V8241)
- 10x magnetic separation stand for 8-tube strip (10x Genomics, cat. no. 230003)
- DynaMag-96 side skirted magnetic separation stand (Thermo Fisher, cat. no. 12027)
- MagneSphere magnetic separation stand (12-hole, 1.5 mL vial, Promega, cat. no. Z5342)
- CoolRack XT cooling block for 384-well PCR plate (Corning, cat. no. 432055) for keeping plate cool on the deck of the Mantis liquid dispenser. When not in use, block is stored at -20 °C.
- Cooling block for 96-well PCR plate (Eppendorf, cat. no. 022510509) for keeping plate cool on the deck of the Mantis liquid dispenser. When not in use, block is stored at -20°C.
- DNA LoBind microcentrifuge tubes (1.5 mL, PCR clean, colorless, Eppendorf, cat. no. 022431021)
- LSE vortex mixer (Corning, cat. no. 6775)
- 3-inch head for vortex mixer (Corning, cat. no. 480100)
- Mantis liquid dispenser (Formulatrix, cat. no. MANTV3.2)

- 1250- μ L pipette tips (Sterile Non-Filtered Extra Long Pipet Tip, Thomas Scientific, cat. no. 1158U40). For use as reservoir on Mantis liquid dispenser.
- 1000- μ L pipette (PIPETMAN Classic P1000, Gilson, cat. no. F123602). Required for using the 1250- μ L pipette tips.
- C1000 Touch Thermal Cycler (with 96 Deep Well Reaction Module, Bio-Rad, cat. no. 1851197)
- C1000 TOUCH 384 Well Reaction Module (Bio-Rad, cat. no. 1840138)
- PX1 PCR Plate Sealer (Bio-Rad, cat. no. 1814000)
- Peelable foil heat seal (Bio-Rad, cat. no. 1814045)
- 5430 microcentrifuge (with 2-place microplate swing bucket rotor, Eppendorf, cat. no. 022620572)
- Synergy H1 hybrid multi-mode microplate reader (BioTek, cat. no. H1MF)
- 2100 Bioanalyzer (Agilent, cat. no. G2939BA)
- High Sensitivity DNA Kit (Agilent, cat. no. 5067-4626)
- MiSeq system (Illumina, cat. no. SY-410-1003)

Software

- BLAST² version NCBI-BLAST-2.2.30+ (<ftp://ftp.ncbi.nlm.nih.gov/blast/executables/blast+/2.2.30/>)
- MiXCR³ version 2.1.5 (<https://github.com/milaboratory/mixcr/releases/tag/v2.1.5>)
- Java JDK version 8 (<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>)
- GNU parallel version 20180722 (<http://git.savannah.gnu.org/cgit/parallel.git/>) [Tange, O. *GNU Parallel 2018* at <https://zenodo.org/record/1146014#.W_1SJhNKjmV>]
- Scripts and reference files from the Github repository at <https://github.com/julietforman/rhTCRseq>

Reagent setup

25 mM AAPV Proteinase K inhibitor

Dissolve 5 mg Elastase Inhibitor III in 400 μ L DMSO, dispense 20 μ L aliquots, and store at -80 °C for up to six months.

P5.IDTxxx.Rd1x.x1 and P7.IDTyyy.Rd2x.x1 index primer plates

There are 768 barcode primers in Tables 3-10. These were obtained in eight 96-well plates with each primer at a concentration of 200 μ M. These plates are designated: P5.1 (Table 3), P5.2 (Table 4), P5.3 (Table 5), P5.4 (Table 6), P7.1 (Table 7), P7.2 (Table 8), P7.3 (Table 9), and P7.4 (Table 10). The table includes the well position of each primer and its corresponding barcode, with the barcodes designated IDT001-IDT384. The 8-nucleotide barcode is underlined in each of the primer sequences. Four 96-well Quadrant Plates at concentration 6 μ M each primer were made by mixing 3 μ L 200 μ M P5 barcode primer, 3 μ L 200 μ M P7 barcode primer, and 94 μ L TE Buffer following this scheme:

Quadrant Plate A: P5.1 + P7.2

Quadrant Plate B: P5.2 + P7.3

Quadrant Plate C: P5.3 + P7.4

Quadrant Plate D: P5.4 + P7.1

Table 1 shows the pipetting pattern used to transfer primers from the Quadrant Plates to a 384-well plate.

Rd1.AV.x1 / Rd1.BV.x1 primer mix

Combine 69 rhPCR primers at a concentration of 5 μ M each by mixing 5 μ L 500 μ M each primer with 155 μ L TE Buffer. These primers are specific for the V segments of the human alpha and beta TCR genes and are designed to amplify all productive alpha and beta alleles. The sequences are in Table 11. Store at -20°C for up to one year.

Rd2.AC.x1 / Rd2.BC.x1 primer mix

Combine the two rhPCR primers at a concentration of 5 μ M each prepared by mixing 5 μ L 500 μ M each primer with 490 μ L TE Buffer. These primers are specific for the C segments of the human alpha and beta TCR genes. The sequences are in Table 11. Store at -20 °C for up to one year.

Ethanol, 80% (vol/vol)

Prepare 80% (vol/vol) ethanol just before use by mixing 4 mL 200 proof ethanol with 1 mL water.

NaOH, 0.2 N

Prepare just before use by mixing 4 μ L 1 N NaOH with 16 μ L water.

Procedure

Single cell sorting • Timing 30-60 min sorter set-up, 10-45 min per plate

1 Dry sort single T cells from sample of interest into a 96- or 384-well PCR plate. In order to have a negative control, do not sort cells into 2-4 wells.

▲**CRITICAL** Ensure the sorter is properly aligned so that each cell is deposited to the center of its well.

2 Immediately centrifuge the plate at 800 \times g for 1 min at 4 °C and place on dry ice.

3 Store the plate at -80 °C.

■**PAUSE POINT** Single-cell plates can be stored for at least one year at -80 °C.

cDNA library construction • Timing 8 h

4 Dilute Proteinase K to 80 units/mL by mixing 5 μ L 800 units/mL Proteinase K with 45 μ L Prionex and keep on ice.

5 Prepare the following lysis mix and keep on ice:

Component	Volume for 96-well plate with overage (μL)	Volume for 384-well plate with overage (μL)	Final concentration
NEBNext Cell Lysis Buffer (10\times)	12	20.8	0.5 \times

Murine RNase Inhibitor	6	10.4	-
Proteinase K (80 units/mL)	24	41.5	8 units/mL
NEBNext Single Cell RT Primer Mix	24	41.5	-
Water	174	301	-
Total volume	240	415.2	

6 Remove single-cell plate from -80 °C freezer (Step 3), place on ice for 2 min, centrifuge briefly, and place plate in cooling block on the deck of the Mantis.

7 Use Mantis to dispense 1 µL of lysis mix to each of the wells if using a 384-well plate, or 2 µL per well for a 96-well plate.

8 Cover the plate with foil and heat seal using plate sealer at 168 °C for 3 s.

9 Centrifuge briefly, then transfer plate to thermal cycler and run the protocol: 50 °C for 30 min, 72 °C for 5 min, hold at 4 °C.

10 Prepare the following reverse transcriptase (RT) mix and keep on ice:

Component	Volume for 96-well plate with overage (µL)	Volume for 384-well plate with overage (µL)	Final concentration in RT reaction
NEBNext Single Cell RT Buffer (4×)	120	207.5	1×
AAPV Proteinase K inhibitor (25 mM)	9.6	16.6	0.5 mM
NEBNext Template Switching Oligo	24	41.5	-
NEBNext Single Cell RT Enzyme Mix	48	83	-
Water	38.4	66.4	-
Total volume	240	415	

11 With the plate in cooling block on the deck of the Mantis, use Mantis to dispense 1 µL of RT mix to each of the wells if using a 384-well plate, or 2 µL per well for a 96-well plate.

12 Cover the plate with foil and heat seal using plate sealer at 168 °C for 3 s.

13 Vortex and centrifuge briefly, then transfer plate to thermal cycler and run the protocol: 42 °C for 90 min, 70 °C for 10 min, hold at 4 °C.

14 Prepare the following PCR mix and keep on ice:

Component	Volume for 96-well plate with overage (µL)	Volume for 384-well plate with overage (µL)	Final concentration in PCR reaction
NEBNext Single Cell cDNA PCR Master Mix (2×)	1200	2065	1×

NEBNext Single Cell cDNA PCR Primer	48	82.6	-
Water	672	1156.4	-
Total volume	1920	3304	

15 With the sample plate in cooling block on the deck of the Mantis, use Mantis to dispense 8 μ L of PCR mix to each of the wells if using a 384-well plate, or 16 μ L per well for a 96-well plate, using a 1250- μ L pipette tip.

16 Cover the plate with foil and heat seal using plate sealer at 168 °C for 3 s.

17 Vortex and centrifuge briefly. Transfer plate to thermal cycler and run the following PCR protocol:

Cycle number	Denature	Anneal	Extend
1	98 °C, 45 s		
2-23	98 °C, 10 s	62 °C, 15 s	72 °C, 3 min
24			72 °C, 5 min

18 Warm ProNex beads to room temperature.

19 With the sample plate at room temperature, use Mantis to dispense 11 μ L of ProNex beads to each of the wells if using a 384-well plate, or 21 μ L per well for a 96-well plate, using a 1250- μ L pipette tip.

20 Vortex briefly and incubate at room temperature for 10 min.

21 Place the plate on a magnetic stand, wait until solution clears (approximately 2 min for beads to collect), then discard supernatants using 8-channel pipette.

22 With plate remaining in the magnetic stand, wash the beads by adding 30 μ L of Promega Wash Buffer to each of the wells if using a 384-well plate, or 100 μ L per well for a 96-well plate, using an 8-channel pipette, waiting 30 s, and discarding the supernatants.

23 Repeat Step 22 one more time. Remove as much residual Wash Buffer as possible.

24 After air drying the beads for 10 min, use Mantis to add 17 μ L Promega Elution Buffer to each well, using a 1250- μ L pipette tip.

25 Vortex briefly, incubate at room temperature for 5 min, place the plate on the magnetic stand, wait for solution to clear (approximately 2 min for beads to collect), then transfer 15 μ L supernatant from each well to a fresh plate.

■PAUSE POINT Amplified libraries can be stored for at least one year at -20 °C.

26 Determine the concentrations of the cDNA libraries using 1- μ L aliquots and the Quant-iT High-Sensitivity dsDNA Assay Kit. Measure fluorescence on the Synergy H1MF microplate reader.

27 Normalize DNA concentration to 0.2 ng/ μ L by combining 1.5 μ L of each library with the appropriate volume of TE in wells of a fresh plate. If concentration is less than 0.2 ng/ μ L, combine 1.5 μ L of library with 0.6 μ L TE. Dispense variable volumes of TE using the Mantis.

28 Store both the original and normalized cDNA library plates at -20 °C.

■PAUSE POINT Original and normalized cDNA library plates can be stored for at least one year at -20 °C.

TCR-specific amplification • Timing 3 h

- 29 Transfer 2 μ L (400 pg) of each normalized cDNA library to a fresh 96- or 384-well plate on ice.
- 30 From the four Quadrant Plates A-D of barcode primers, use an 8-channel pipette to add 2 μ L 6 μ M each P5.IDTxxx.Rd1x.x1 / P7.IDTyyy.Rd2x.x1 to each of the wells in a 384-well plate following the pipetting scheme in Table 1. For a 96-well plate, only one of the Quadrant Plates is used.
- 31 Dilute RNase H2 to 20 mU/ μ L by mixing 1 μ L 2 units/ μ L RNase H2 Enzyme with 99 μ L RNase H2 Dilution Buffer and keep on ice.
- 32 Prepare the following PCR mix (PCR1) and keep on ice:

Component	Volume for 96-well plate with overage (μ L)	Volume for 384-well plate with overage (μ L)	Final concentration in PCR reaction
Tris-HCl, pH 8.4 (1 M)	10.8	36.9	15 mM
KCl (1 M)	18	61.5	25 mM
MgCl ₂ (1 M)	2.9	9.84	4 mM
dNTPs (25 mM each)	11.5	39.36	0.4 mM each
Rd1.AV.x1 / Rd1.BV.x1 primer mix (5 μ M each)	7.2	24.6	50 nM each
Rd2.AC.x1 / Rd2.BC.x1 primer mix (5 μ M each)	7.2	24.6	50 nM each
RNase H2 (20 mU/ μ L)	18	61.5	0.5 mU/ μ L
Hot Start Taq DNA Polymerase (5 units/ μ L)	28.8	98.4	0.2 units/ μ L
Water	135.6	463.3	-
Total volume	240	820	

- 33 With sample plate in cooling block on the deck of the Mantis, use Mantis to dispense 2 μ L PCR mix to each of the wells.
- 34 Cover the plate with foil and heat seal using plate sealer at 168 °C for 3 s.
- 35 Transfer plate to thermal cycler and run the following protocol:

Cycle number	Denature	Anneal	Extend
1	95 °C, 5 min		
2-19	96 °C, 20 s	60 °C, 6 min	

Pooling, purification, and final PCR. • Timing 3.5 h

- 36 Pool all the reactions by mixing 2 μ L of each sample. Pooling is done by using an 8-channel pipette to transfer samples from all wells of each column repeatedly into the same wells of one column of a new 96-well PCR plate. This requires 12 transfers for a 96-well plate and 48 transfers for a 384-well plate. The eight pooled samples are then combined by transferring to a 1.5-mL microcentrifuge tube to generate a 192- μ L pooled sample for a 96-well plate and a 768- μ L pooled sample for a 384-well plate. Store remainder of unpooled samples at -20 °C for up to six months.
- 37 Warm AMPure XP beads to room temperature.

38 To the pooled sample, add:

Component	Volume for pool from 96-well plate (µL)	Volume for pool from 384-well plate (µL)
AMPure XP beads	19.2	76.8
Beads Buffer	96	384

39 Pipet up and down, then incubate at room temperature for 5 min.

40 Place the tube on the magnetic stand and wait 5 min or until solution clears for beads to collect.

41 Transfer supernatant to fresh tube and add:

Component	Volume for pool from 96-well plate (µL)	Volume for pool from 384-well plate (µL)
AMPure XP beads	6.4	25.6
Beads Buffer	32	128

42 Pipet up and down, then incubate at room temperature for 5 min.

43 Place the tube on the magnetic stand, wait until solution clears (approximately 5 min for beads to collect), and discard supernatant.

44 With tube remaining on the magnetic stand, wash the beads by adding 1 mL freshly prepared 80% ethanol, waiting 30 s, and discarding the supernatant.

45 Repeat Step 44 one more time. Remove as much residual 80% ethanol as possible.

46 After air drying the beads for 5 min, add 21 µL DNA Suspension Buffer.

47 Pipet up and down, place the tube on the magnetic stand, wait 2 min for beads to collect, then transfer 20 µL supernatant to one of the unused wells in the 96-well PCR plate used to pool samples (Step 36).

48 Add 16 µL AMPure XP beads.

49 Repeat Steps 42-47 using the 96-well magnetic stand and 100 µL 80% ethanol for Steps 44 and 45, then transferring 20 µL supernatant to another unused well in the 96-well PCR plate.

50 In an adjacent unused well in the 96-well PCR plate, prepare 1:10 dilution by mixing 2 µL purified pooled sample and 18 µL DNA Suspension Buffer.

■ PAUSE POINT Samples can be stored for up to one week at -20°C.

51 In 8-tube PCR strip, prepare two PCR reactions (PCR2) on ice. Each reaction contains:

Component	Volume per sample (µL)	Final concentration in PCR reaction
Purified pooled sample from Step 49 (original) or Step 50 (1:10 dilution)	5	-
P5 primer (10 µM)	2.5	0.5 µM
P7 primer (10 µM)	2.5	0.5 µM

Q5 Hot Start HiFi PCR Master Mix (2×)	25	1×
Water	15	-
Total volume	50	

52 Transfer strip to thermal cycler and run the protocol:

Cycle number	Denature	Anneal	Extend
1	98°C, 30 s		
2-18	98°C, 10 s	62°C, 2 min	
19			75°C, 2 min

53 Warm ProNex beads to room temperature.

54 To each of the two PCR samples from Step 52, add 55 µL ProNex beads.

55 Pipet up and down, then incubate at room temperature for 10 min.

56 Place the strip on the 10x magnetic stand in the High orientation, wait until solution clears (approximately 2 min for beads to collect), then transfer supernatants to two unused tubes in the strip.

57 Add 15 µL ProNex beads to each, pipet up and down, and incubate at room temperature for 10 min.

58 Place the strip on the 10x magnetic stand in the High orientation, wait until solution clears (approximately 2 min for beads to collect), then discard supernatants.

59 With strip remaining in the magnetic stand, wash the beads by adding 100 µL Promega Wash Buffer per well, waiting 30 s, and discarding the supernatants.

60 Repeat wash step 59 one time. Remove as much residual Wash Buffer as possible.

61 After air drying the beads for 10 min, add 20 µL Promega Elution Buffer to each sample.

62 Pipet up and down, place in the 10x magnetic stand in the Low orientation, wait until solution clears (approximately 2 min for beads to collect), then transfer the two supernatants to unused wells in the 96-well plate used to store the samples after purification of the pooled TCR-specific PCR (Step 50).

63 Use 1 µL of each of the two final PCR products from Step 62 to measure the fragment size distribution and estimate concentration using the 2100 BioAnalyzer and High Sensitivity DNA Kit. Fragment size should be a set of peaks predominantly in the range 260-400 bp. Concentration is determined setting the size range to 200-1000 bp. Of the two libraries, the one with the flattest baseline is used for sequencing.

■PAUSE POINT Amplified libraries can be stored for at least one year at -20°C.

Sequencing • Timing 28 h

Perform sequencing using the 300-cycle Reagent Kit v2 on the Illumina MiSeq according to the manufacturer's protocol. As part of the set-up, upload the appropriate sample sheet from those found in Tables 12-16 to the instrument. Each of these sample sheet specifies 248 nt read 1, 48 nt read 2, 8 nt index 1, and 8 nt index 2.

64 Dilute the selected (see Step 63) final library from Step 62 to 4 nM using water.

- 65 Mix 4.5 μ L 4 nM library, 0.5 μ L PhiX spike-in, and 5 μ L freshly prepared 0.2 N NaOH, then incubate at room temperature for 5 min.
- 66 Add 990 μ L Hyb Buffer (from MiSeq kit), mix by inversion, and place on ice. The library concentration is now 20 pM.
- 67 To prepare final loading library at 8 pM, mix 400 μ L 20 pM library with 600 μ L Hyb Buffer.
- 68 Load 600 μ L 8 pM library into MiSeq cartridge then follow the Illumina instructions to run the sequencer.

Data analysis • Timing 8 h

The required input for the rhTCRseq pipeline includes the sequencing reads in fastq.gz files separated by well, with four files per well. Each filename for each well should begin with the fastq_basename prefix for that well, and the four filenames should end in _L001_R1_001, _L001_R2_001, _L001_I1_001, and _L001_I2_001. Also required is the SampleSheet.csv file for the run.

- 69 Install MiXCR-2.1.5, NCBI Blast, Java, and GNU Parallel.
- 70 Set up directory structure as follows:
 - choose a `ROOT_DIR` in which all requirements for the pipeline will go
 - create a directory `<ROOT_DIR>/scripts` (add to this folder all of the files from the Github repository folder rhTCRseq/scripts)
 - create a directory `<ROOT_DIR>/data`
 - create a directory `<ROOT_DIR>/out`
 - create a directory `<ROOT_DIR>/blast_database` (add to this folder all of the blast database files from the Github repository folder rhTCRseq/blast_database)
- 71 Prepare to analyze a particular run:
 - open the config file `<ROOT_DIR>/scripts/config.py` and edit the variables in the file to match your run
 - create a directory in `<ROOT_DIR>/data/` with the same name as `RUN_NAME` in `config.py` (place the fastq.gz files from the sequencing run in this folder)
 - create a directory in `<ROOT_DIR>/out/` with the same name as `RUN_NAME` in `config.py` (place SampleSheet.csv for the run into this folder)

After these steps are complete, the directory structure should look like this:

```
ROOT_DIR
├── blast_database
│   ├── TRV_primer.fasta
│   ├── TRV_primer.fasta.nhr
│   ├── TRV_primer.fasta.nin
│   ├── TRV_primer.fasta.nog
│   ├── TRV_primer.fasta.nsd
│   ├── TRV_primer.fasta.nsi
│   ├── TRV_primer.fasta.nsq
│   ├── TRC_primer.fasta
│   └── TRC_primer.fasta.nhr
```

```

TRC_primer.fasta.nin
TRC_primer.fasta.nog
TRC_primer.fasta.nsd
TRC_primer.fasta.nsi
TRC_primer.fasta.nsq
target_gene_primer_forward.fasta
target_gene_primer_forward.fasta.nhr
target_gene_primer_forward.fasta.nin
target_gene_primer_forward.fasta.nog
target_gene_primer_forward.fasta.nsd
target_gene_primer_forward.fasta.nsi
target_gene_primer_forward.fasta.nsq
target_gene_primer_reverse.fasta
target_gene_primer_reverse.fasta.nhr
target_gene_primer_reverse.fasta.nin
target_gene_primer_reverse.fasta.nog
target_gene_primer_reverse.fasta.nsd
target_gene_primer_reverse.fasta.nsi
target_gene_primer_reverse.fasta.nsq
target_gene_reverse.fasta
target_gene_reverse.fasta.nhr
target_gene_reverse.fasta.nin
target_gene_reverse.fasta.nog
target_gene_reverse.fasta.nsd
target_gene_reverse.fasta.nsi
target_gene_reverse.fasta.nsq
target_gene_forward.fasta
target_gene_forward.fasta.nhr
target_gene_forward.fasta.nin
target_gene_forward.fasta.nog
target_gene_forward.fasta.nsd
target_gene_forward.fasta.nsi
target_gene_forward.fasta.nsq
data
  <RUN_NAME>
    <fastq.gz files>
out
  <RUN_NAME>
    SampleSheet.csv
scripts
  blast.sh
  count_umi.py
  separate_fastq.py
  collapse_rules.txt
  parse_blast_results.py
  analyze_tcr.py
  compare_clonotype.py

```

```
merge_TRBV.py
mixcr.sh
get_parallel_range.py
print_description.py
config.py
run_pipeline.sh
make_index_list.py
```

72 Run the pipeline:

```
cd <ROOT_DIR>/scripts
./run_pipeline.sh
```

The output files are shown in Table 2.

For single cells, clonotypes are assembled based on the CDR3 sequence results in output file `mixcr_clonotype_per_well.list` (Table 2) and are classified as containing: (1) one alpha and one beta; (2) two alpha and one beta; (3) one alpha and two beta; (4) one or two alpha only; (5) one or two beta only (6) multiple alpha and beta; and (7) lacking a productive alpha and beta. The classification is performed as follows: In each single cell, and separately for alpha and beta, detected clonotypes are ranked by number of CDR3 reads. Nonproductive CDR3 sequences with stop codon or frame shift are ignored. If less than 100 CDR3 reads are counted for the predominant sequence, then no alpha/beta clonotype is reported for that cell. If the CDR3 reads for the predominant sequence are 20× or greater than the second sequence, one alpha/beta clonotype is reported for that cell. If the sum of the CDR3 reads for the first and second sequences is 20× or greater than the third sequence, two alpha/beta clonotypes are reported for that cell. Any remaining cells are reported as multiple. If a cell has two alpha clonotypes and two beta clonotypes, it is also reported as multiple.

References

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2. Camacho, C. *et al.* BLAST+: architecture and applications. *BMC Bioinformatics* **10**, 421 (2009).
3. Bolotin, D. A. *et al.* MiXCR: software for comprehensive adaptive immunity profiling. *Nat. Methods* **12**, 380–381 (2015).

Table 1 | Scheme for pipetting from four 96-well plates to one 384-well plate.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
B	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
C	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
E	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
F	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
G	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
H	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
I	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
J	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
K	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
L	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
M	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
N	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
O	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
P	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D

The numbers in the first row and the letters in the leftmost column indicate the coordinates of a 384-well plate. The remaining letters A, B, C, and D refer to four 96-well plates. Using an 8-channel pipette, primers in each column of 96-well plate A are pipetted to a column with wells marked A in this diagram of a 384-well plate. This requires 12 transfers. The process is repeated for 96-well plates B, C, and D. The overall operation requires 48 transfers, with 8 wells being pipetted per transfer.

Table 2 | Data analysis output files for single cell RNA protocol

Results folder	Content
clone_stat_all.txt	The final number of clonotypes and the percentage collapsed for each locus in each well
collapse_stat_all.txt	Information about clonotypes that were collapsed
mixcr_clonotype_per_well.list	Information about the top clonotypes in each well
mixcr_clonotype_recurrence.list	Information about which clonotypes are found in which wells
mixcr_clonotype_TRA_across_well.table	With one row per well, records the clone fraction of the top TRA clonotype in that well and its occurrence in the other wells
mixcr_clonotype_TRB_across_well.table	With one row per well, records the clone fraction of the top TRB clonotype in that well and its occurrence in the other wells
clone_stat_all.txt	The final number of clonotypes and the percentage collapsed for each locus in each well

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A04	P5.IDT025.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTTGATCACA	CTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT026.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTCGAAGAACA	CTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT027.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCACGATACA	CTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT028.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATTACCGACA	CTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT029.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCACAAC	TACA
F04	P5.IDT030.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCGTCATTACA	CTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT031.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCCGGTAACA	CTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT032.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTTGCAAACA	CTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT033.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGAAGTGACA	CTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT034.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATGGCTAACA	CTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT035.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGCCTGTACA	CTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT036.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAACACCTACA	CTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT037.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTGACTGACA	CTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT038.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCATCGAACA	CTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT039.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCACTTCACA	CTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT040.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAAGGAAGACA	CTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT041.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTGTTTCGACA	CTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT042.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGGTTGTTACA	CTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT043.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTGAGGTACA	CTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT044.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGAAGACGACA	CTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT045.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTACGCAACA	CTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT046.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCGTGTTACA	CTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT047.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATCGAGTACA	CTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT048.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACAGCTCAACA	CTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT049.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGCAGTAACA	CTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT050.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTTCGTACA	CTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT051.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGCGAAGACA	CTTTCCCTACrACGACa/3SpC3/

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D07	P5.IDT052.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCGCCATACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT053.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGCATGTACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT054.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGTTGACACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT055.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATAACCACACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT056.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAAGTTGGACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT057.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGACGTCACACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT058.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGGACGTACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT059.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTGGATCAGACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT060.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATAGGCTACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT061.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGTAGCTACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT062.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGCAATCTACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT063.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATGTGTGACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT064.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATTGCTCAGACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT065.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGCTCTATACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT066.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTATCGGTCAGACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT067.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACGCTCTGACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT068.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGTTGAGACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT069.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTCCAAACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT070.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGAGACACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT071.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAATGTGGACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT072.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTCCATCAGACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT073.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTGACCTACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT074.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTGTGTAACACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT075.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGACTTGACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT076.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCACTAGCTACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT077.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTAGGAGACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT078.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTAGGAGTACTCTTTCCCTACrACGACa/3SpC3/

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G10	P5.IDT079.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTGATTGACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT080.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGCACGAACACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT081.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGACGTTAACACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT082.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACGCCTTACACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT083.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCGTAAGAACACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT084.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCACACGACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT085.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCACCTGTTACACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT086.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTCGACTACACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT087.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCTTCCAACACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT088.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGAACGAGACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT089.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTTCTCGTACACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT090.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCAGGCTTACACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT091.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTTGTAGACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT092.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAACATCGACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT093.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAACCGBTACACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT094.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACCGTTCACACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT095.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGTACAGACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT096.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATATGCGACACTCTTTCCCTACrACGACa/3SpC3/

Table 4. | Plate P5.2

Well Position	Name	Sequence
A01	P5.IDT097.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCCTATCA</u> AACTCTTTCCCTACrACGACa/3SpC3/
B01	P5.IDT098.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTTGGATG</u> AACTCTTTCCCTACrACGACa/3SpC3/
C01	P5.IDT099.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGTCTCAC</u> AACTCTTTCCCTACrACGACa/3SpC3/
D01	P5.IDT100.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCATCAG</u> AACTCTTTCCCTACrACGACa/3SpC3/
E01	P5.IDT101.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGTACCGT</u> AACTCTTTCCCTACrACGACa/3SpC3/
F01	P5.IDT102.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AAGTCGAG</u> AACTCTTTCCCTACrACGACa/3SpC3/
G01	P5.IDT103.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCACGTTGT</u> AACTCTTTCCCTACrACGACa/3SpC3/
H01	P5.IDT104.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCACAGCA</u> AACTCTTTCCCTACrACGACa/3SpC3/
A02	P5.IDT105.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTACTTGG</u> AACTCTTTCCCTACrACGACa/3SpC3/
B02	P5.IDT106.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCCTCAGTT</u> AACTCTTTCCCTACrACGACa/3SpC3/
C02	P5.IDT107.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCCTACCT</u> AACTCTTTCCCTACrACGACa/3SpC3/
D02	P5.IDT108.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATGGCGAA</u> AACTCTTTCCCTACrACGACa/3SpC3/
E02	P5.IDT109.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTTACCTG</u> AACTCTTTCCCTACrACGACa/3SpC3/
F02	P5.IDT110.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCGATA</u> CACTCTTTCCCTACrACGACa/3SpC3/
G02	P5.IDT111.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCCGTGAA</u> AACTCTTTCCCTACrACGACa/3SpC3/
H02	P5.IDT112.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TAGAGCTC</u> AACTCTTTCCCTACrACGACa/3SpC3/
A03	P5.IDT113.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGACTGAC</u> AACTCTTTCCCTACrACGACa/3SpC3/
B03	P5.IDT114.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TAGACGTG</u> AACTCTTTCCCTACrACGACa/3SpC3/
C03	P5.IDT115.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCCGGAATT</u> AACTCTTTCCCTACrACGACa/3SpC3/
D03	P5.IDT116.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCCTAGA</u> AACTCTTTCCCTACrACGACa/3SpC3/
E03	P5.IDT117.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CAACGGAT</u> AACTCTTTCCCTACrACGACa/3SpC3/
F03	P5.IDT118.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGGCTATC</u> AACTCTTTCCCTACrACGACa/3SpC3/
G03	P5.IDT119.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGGTCATA</u> AACTCTTTCCCTACrACGACa/3SpC3/
H03	P5.IDT120.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCCAATCG</u> AACTCTTTCCCTACrACGACa/3SpC3/

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A04	P5.IDT121.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAGCTTGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT122.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAAGGTT</u> CACACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT123.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATCTCGCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT124.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGTTACGG</u> ACACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT125.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTGTCTGA</u> ACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT126.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>GACTTCG</u> ACACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT127.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGGATCAC</u> ACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT128.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCAGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT129.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CAGGTTAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT130.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGTTGGCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT131.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>CAACTGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT132.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTGC</u> ACTTACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT133.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACACGGT</u> TACTCTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT134.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AATACGC</u> GACTCTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT135.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGCG</u> AACTACTCTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT136.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTG</u> ACTTAACTCTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT137.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTGGTGT</u> TACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT138.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTGCTT</u> ACTACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT139.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>CAAGG</u> ACACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT140.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>GAACTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT141.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGTGTGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT142.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTA</u> CTCTCACACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT143.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCGTAT</u> CTACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT144.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGAAGA</u> ACACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT145.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGCGGA</u> ATACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT146.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTGAGCT</u> TACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT147.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTGAT</u> CAACTCTTTCCCTACrACGACa/3SpC3/

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D07	P5.IDT148.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TCGCATTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT149.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGACGCAT</u> ACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT150.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCGATGTA</u> ACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT151.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TCGCAGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT152.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACGACAGA</u> ACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT153.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGCTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT154.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAGTGGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT155.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCTGTA</u> AGACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT156.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCAAGACT</u> ACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT157.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATTGCGT</u> GACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT158.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTGAAGCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT159.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>AAAGGAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT160.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TCGTCTCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT161.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TCCTGTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT162.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTTGAGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT163.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGTCGCTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT164.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>AGGTAGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT165.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCAGGAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT166.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CATCGTGA</u> ACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT167.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>GTTGTGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT168.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACAGACCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT169.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTCCTTCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT170.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGATACGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT171.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTGTGTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT172.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AACGTGGA</u> ACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT173.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTTGCGAT</u> ACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT174.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AACGACGT</u> ACTCTTTCCCTACrACGACa/3SpC3/

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G10	P5.IDT175.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTATTCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT176.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGCAAGCA</u> AACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT177.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGTTTCGAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT178.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCCATGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT179.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTCTTGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT180.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATAAGGCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT181.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGTCTGCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT182.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGCTTAAC</u> AACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT183.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GATCCATG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT184.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCTCTGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT185.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCCACTTA</u> AACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT186.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCTGACT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT187.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTTAAGGC</u> AACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT188.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATGCCAAC</u> AACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT189.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGAGGTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT190.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCATCCA</u> AACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT191.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTGGATAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT192.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTGAGATC</u> AACTCTTTCCCTACrACGACa/3SpC3/

Table 5. | Plate P5.3

Well Position	Name	Sequence
A01	P5.IDT193.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTCGTTTCACACTCTTTCCCTACrACGACa/3SpC3/
B01	P5.IDT194.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCTAGGTACACTCTTTCCCTACrACGACa/3SpC3/
C01	P5.IDT195.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGTCGTAACACTCTTTCCCTACrACGACa/3SpC3/
D01	P5.IDT196.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGCTCAAACACTCTTTCCCTACrACGACa/3SpC3/
E01	P5.IDT197.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTGTACTACACTCTTTCCCTACrACGACa/3SpC3/
F01	P5.IDT198.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCACTGACAACACTCTTTCCCTACrACGACa/3SpC3/
G01	P5.IDT199.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGTAGTACACTCTTTCCCTACrACGACa/3SpC3/
H01	P5.IDT200.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCACGTAAACACTCTTTCCCTACrACGACa/3SpC3/
A02	P5.IDT201.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAAGCAGTACACTCTTTCCCTACrACGACa/3SpC3/
B02	P5.IDT202.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACATAGGCACACTCTTTCCCTACrACGACa/3SpC3/
C02	P5.IDT203.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTGGTACACTCTTTCCCTACrACGACa/3SpC3/
D02	P5.IDT204.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCACCACTAACACTCTTTCCCTACrACGACa/3SpC3/
E02	P5.IDT205.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGCGTATACACTCTTTCCCTACrACGACa/3SpC3/
F02	P5.IDT206.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGGTCTTACACTCTTTCCCTACrACGACa/3SpC3/
G02	P5.IDT207.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATTGGAGACACTCTTTCCCTACrACGACa/3SpC3/
H02	P5.IDT208.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTCCAGAACACTCTTTCCCTACrACGACa/3SpC3/
A03	P5.IDT209.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCAGTGTACACTCTTTCCCTACrACGACa/3SpC3/
B03	P5.IDT210.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCACCAAACACTCTTTCCCTACrACGACa/3SpC3/
C03	P5.IDT211.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGACAGGACACTCTTTCCCTACrACGACa/3SpC3/
D03	P5.IDT212.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGCATAGACACTCTTTCCCTACrACGACa/3SpC3/
E03	P5.IDT213.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAGCCGAAACACTCTTTCCCTACrACGACa/3SpC3/
F03	P5.IDT214.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGTCGGTACACTCTTTCCCTACrACGACa/3SpC3/
G03	P5.IDT215.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATCTACGACACTCTTTCCCTACrACGACa/3SpC3/
H03	P5.IDT216.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCATACAGACACTCTTTCCCTACrACGACa/3SpC3/

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A04	P5.IDT217.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACAGCAAC</u> ACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT218.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTGGTTCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT219.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCGACATC</u> ACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT220.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AACTCC</u> TACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT221.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCAGCGATT</u> ACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT222.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGGTC</u> ACTACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT223.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCAATTCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT224.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCTTCTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT225.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AACTGGTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT226.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCGGAATAC</u> ACTCTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT227.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGCTTCGAA</u> ACTCTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT228.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CAAGGTCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT229.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AACTTGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT230.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCATACGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT231.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGGTCCTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT232.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCGCATA</u> ACTCTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT233.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCCTTCCTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT234.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TACACGCT</u> ACTACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT235.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGCGTAGA</u> ACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT236.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AAGAGCCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT237.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATGGAAGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT238.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCCAGTAT</u> ACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT239.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTAGGTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT240.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCGAGTATG</u> ACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT241.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CAAGTGCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT242.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCGAGTGA</u> ACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT243.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTACAGTG</u> ACTCTTTCCCTACrACGACa/3SpC3/

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D07	P5.IDT244.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GATCGTAC</u> ACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT245.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTTCACCA</u> AACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT246.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCAGCTA</u> AACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT247.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCTGCTCT</u> AACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT248.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACA <u>ACCGAAG</u> AACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT249.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTGTTGT</u> AACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT250.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TACGGCT</u> AACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT251.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GACAAG</u> AACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT252.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGGATCTG</u> AACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT253.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTAGCATC</u> AACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT254.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTGTTCT</u> AACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT255.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGGATGGT</u> AACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT256.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TACGTTCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT257.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGGTTCTA</u> AACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT258.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCTGGTT</u> AACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT259.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TTAGGTCG</u> AACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT260.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCTGAGAG</u> AACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT261.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TTCAGCCT</u> AACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT262.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCTCCGAT</u> AACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT263.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CAGGTATC</u> AACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT264.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGTCAGGA</u> AACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT265.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACA <u>AAGGCTGA</u> AACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT266.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGATGCTT</u> AACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT267.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTATTGGC</u> AACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT268.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACTGTGTC</u> AACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT269.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGCCTCTT</u> AACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT270.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CAGTCTTC</u> AACTCTTTCCCTACrACGACa/3SpC3/

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G10	P5.IDT271.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACC <u>CATAACGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT272.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACTGCTAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT273.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATTCTGGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT274.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TTCTCTCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT275.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCCGAGTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT276.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGAACTGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT277.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AACGGTCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT278.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGCAGATG</u> ACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT279.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TATCAGCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT280.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGACGAA</u> ACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT281.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCATGTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT282.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTAACTCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT283.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTTAGCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT284.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CATGGAAC</u> ACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT285.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TAGGATGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT286.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTTCATGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT287.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCGTGGAT</u> ACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT288.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCTTCTC</u> ACTCTTTCCCTACrACGACa/3SpC3/

Table 6. | Plate P5.4

Well Position	Name	Sequence
A01	P5.IDT289.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATTGCGCTACACTCTTTCCCTACrACGACa/3SpC3/
B01	P5.IDT290.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTAGGTGAACACTCTTTCCCTACrACGACa/3SpC3/
C01	P5.IDT291.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCCGTATGACACTCTTTCCCTACrACGACa/3SpC3/
D01	P5.IDT292.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGATGACACTCTTTCCCTACrACGACa/3SpC3/
E01	P5.IDT293.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCGGTAAACACTCTTTCCCTACrACGACa/3SpC3/
F01	P5.IDT294.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGAAGGTACACTCTTTCCCTACrACGACa/3SpC3/
G01	P5.IDT295.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGAAGCGTACACTCTTTCCCTACrACGACa/3SpC3/
H01	P5.IDT296.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCTACTCACACTCTTTCCCTACrACGACa/3SpC3/
A02	P5.IDT297.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTAGGCATACACTCTTTCCCTACrACGACa/3SpC3/
B02	P5.IDT298.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGAGTTGACACTCTTTCCCTACrACGACa/3SpC3/
C02	P5.IDT299.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGGACTTACACTCTTTCCCTACrACGACa/3SpC3/
D02	P5.IDT300.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAATCGACACACTCTTTCCCTACrACGACa/3SpC3/
E02	P5.IDT301.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCTAACGCACACTCTTTCCCTACrACGACa/3SpC3/
F02	P5.IDT302.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCTCGCAAACACTCTTTCCCTACrACGACa/3SpC3/
G02	P5.IDT303.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCGGTGTACACTCTTTCCCTACrACGACa/3SpC3/
H02	P5.IDT304.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGATACGACACTCTTTCCCTACrACGACa/3SpC3/
A03	P5.IDT305.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCTCCTTACACTCTTTCCCTACrACGACa/3SpC3/
B03	P5.IDT306.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTCGACAACACTCTTTCCCTACrACGACa/3SpC3/
C03	P5.IDT307.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGGATTGAACACTCTTTCCCTACrACGACa/3SpC3/
D03	P5.IDT308.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCACAAGTCACACTCTTTCCCTACrACGACa/3SpC3/
E03	P5.IDT309.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACATCGGACACTCTTTCCCTACrACGACa/3SpC3/
F03	P5.IDT310.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCTCCTAACACTCTTTCCCTACrACGACa/3SpC3/
G03	P5.IDT311.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTCGTTGACACTCTTTCCCTACrACGACa/3SpC3/
H03	P5.IDT312.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGACACAACACTCTTTCCCTACrACGACa/3SpC3/

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A04	P5.IDT313.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAACCTAGACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT314.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAAGGACACACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT315.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCAGGTAACACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT316.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCTAAGGACACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT317.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTCTGTGACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT318.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGTTCGAACACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT319.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACTATGCACACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT320.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCAGGAGACTCTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT321.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTGCGTTACACTCTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT322.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGAGACTAACACTCTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT323.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCAGAGTACACTCTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT324.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCCATAACACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT325.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTACCGAGACTCTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT326.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTCTGTAACACTCTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT327.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTTATGCACACTCTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT328.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCTGATCACACTCTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT329.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAGTTGCGACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT330.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGATCGGAACACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT331.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCAAGTTGACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT332.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTACTGAACACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT333.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTGCTGTACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT334.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCCATTACACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT335.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGATCCGACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT336.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTGCAGTACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT337.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACTTAGGACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT338.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTACGAAACACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT339.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACCAGGAACACTCTTTCCCTACrACGACa/3SpC3/

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D07	P5.IDT340.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTCAATG</u> ACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT341.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAAGAGGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT342.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GACGAATG</u> ACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT343.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGGAGGAA</u> ACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT344.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTTACAGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT345.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAGATGTC</u> ACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT346.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TACGGTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT347.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTATCGCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT348.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TCGAACCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT349.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAACGCTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT350.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCAGAATCG</u> ACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT351.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATGGTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT352.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTGGATT</u> ACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT353.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GATGCACT</u> ACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT354.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCAATGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT355.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTCCTAAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT356.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CCGACTATA</u> ACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT357.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TTGGTCTC</u> ACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT358.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GCCTTGTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT359.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GATACTGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT360.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ATTCGAGG</u> ACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT361.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGTCAGTTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT362.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTAGAGCA</u> ACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT363.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACGTGATG</u> ACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT364.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TAAGTGGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT365.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>TGTGAAGC</u> ACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT366.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CATTTCGGT</u> ACTCTTTCCCTACrACGACa/3SpC3/

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G10	P5.IDT367.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGGTGAG</u> ACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT368.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACC <u>AGTTCTG</u> ACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT369.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>AGGCTTCT</u> ACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT370.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GAATCGT</u> GACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT371.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACCAGCTT</u> ACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT372.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTCATTG</u> CACACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT373.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGATAG</u> AGACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT374.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGGAGAGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT375.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GTATGCT</u> GACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT376.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CTGGAGT</u> AACACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT377.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACA <u>AATGCCT</u> CACACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT378.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TGAGGTGT</u> ACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT379.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>ACATTG</u> CGACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT380.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACT <u>TCTCTAG</u> GACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT381.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGCTAGT</u> AACACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT382.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACA <u>AATGGAC</u> GACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT383.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>GATAGCG</u> AACACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT384.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC <u>CGACCATT</u> ACTCTTTCCCTACrACGACa/3SpC3/

Table 7. | Plate P7.1

Well Position	Name	Sequence
A01	P7.IDT001.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTGATCGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT002.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACTCTCGAGTACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT003.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGAGCTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT004.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGAGACGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT005.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTTGTTCGAGTACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT006.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTCCAAGGGTACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT007.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGCATGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT008.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACGGAACAGTACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT009.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGGCTAATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT010.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATCGATCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT011.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCAAGATCGTACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT012.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCTATCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT013.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTACGCTACGTACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT014.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGGACTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT015.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGAGTAGCGTACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT016.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATCCAGAGGTACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT017.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGACGATCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT018.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAACTGAGCGTACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT019.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTTAGGACGTACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT020.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTGCCATAGTACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT021.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGAATCCGAGTACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT022.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTCGCTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT023.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTTCGTTGGGTACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT024.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAAGCACTGGTACTGGAGTTCAGArCGTGTa/3SpC3/

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A04	P7.IDT025.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCTTGAT</u> CGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT026.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTCGAAGAG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT027.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACCACGAT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT028.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATTACCGG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT029.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCACAAC</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT030.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCGTCAT</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT031.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TATCCGG</u> TAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT032.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGTTGCA</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT033.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGAAGT</u> GGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT034.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CATGGCT</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT035.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TATGCCT</u> GTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT036.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAACACCT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT037.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGTGACT</u> GGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT038.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTCATCG</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT039.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGCACTT</u> CGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT040.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAAGGA</u> AGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT041.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTTGTT</u> CGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT042.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGGTTGT</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT043.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACTGAGG</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT044.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGAAGAC</u> GGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT045.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTTACGC</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT046.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGCGTGT</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT047.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATCGAG</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT048.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACAGCTC</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT049.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAGCAGT</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT050.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTTCGT</u> CGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT051.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTGCGA</u> AGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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D07	P7.IDT052.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATCGCCATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT053.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGGCATGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT054.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTGTTGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT055.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCATACCACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT056.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGAAGTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT057.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATGACGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT058.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTGGACGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT059.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGTGGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT060.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGATAGGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT061.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGGTAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT062.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGCAATCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT063.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGATGTGTGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT064.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGATTGCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT065.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGCTCTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT066.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTATCGGTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT067.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAACGTCTGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT068.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACGTTTCAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT069.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAGTCCAAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT070.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTGCAGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT071.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAATGTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT072.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACTCCATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT073.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTTGACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT074.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGTGTGTAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT075.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACGACTTGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT076.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCACTAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT077.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACTAGGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT078.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTAGGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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G10	P7.IDT079.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTTGATTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT080.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ATGCACGAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT081.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGACGTTAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT082.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TACGCCTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT083.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCGTAAGAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT084.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ATCACACGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT085.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CACCTGTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT086.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTTCGACTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT087.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGCTTCCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT088.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGAACGAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT089.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTTTCTCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT090.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCAGGCTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT091.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTTGTAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT092.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAACATCGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT093.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TAACCGGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT094.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AAACCGTTCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT095.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGGTACAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT096.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ATATGCGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/

Table 8. | Plate P7.2

Well Position	Name	Sequence
A01	P7.IDT097.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCCTATCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT098.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCTTGGATGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT099.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTCTCACGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT100.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCATCAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT101.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGTACCGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT102.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>AGTCGAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT103.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CACGTTGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT104.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCACAGCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT105.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTACTTGGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT106.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCTCAGTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT107.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCTACCTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT108.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TATGGCGAAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT109.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCTTACCTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT110.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCGATACGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT111.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCGTGAAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT112.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TAGAGCTCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT113.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGACTGACGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT114.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TAGACGTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT115.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCGGAATTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT116.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCCTAGAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT117.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAACGGATGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT118.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGGCTATCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT119.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGGTCATAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT120.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCAATCGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/

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A04	P7.IDT121.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAGCTTGT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT122.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAAGGTTTC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT123.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATCT <u>CGCTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT124.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTTACGGG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT125.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGTCTG</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT126.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGACTTCGG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT127.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGGATCAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT128.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACACCAGT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT129.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAGGTTAG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT130.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTTGGCT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT131.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCAACTGGG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT132.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTGCACTT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT133.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACACGGTT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT134.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>AATACGCG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT135.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGCGAACT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT136.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTCTGACT</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT137.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGGTGT</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT138.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGCTTAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT139.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCAAGGAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT140.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGAACCTG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT141.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTGTGGG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT142.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTACTCTC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT143.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCGTATCT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT144.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGAAGAAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT145.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGCGGAAT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT146.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGAGCTT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT147.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGTGATCA</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/

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D07	P7.IDT148.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTCGCATTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT149.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGACGCATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT150.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCGATGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT151.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTTCGCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT152.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACGACAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT153.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGCTTGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT154.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGAGTGGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT155.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCTGTAAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT156.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCAAGACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT157.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATTGCGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT158.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTGAAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT159.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTAACGAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT160.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTCGTCTCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT161.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTCTGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT162.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGTTGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT163.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGTCGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT164.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTAGGTAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT165.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAGGAGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT166.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCATCGTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT167.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTGTTGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT168.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACAGACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT169.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTCCTTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT170.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGATACGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT171.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTGTGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT172.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAACGTGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT173.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTTGCGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT174.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAACGACGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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G10	P7.IDT175.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGTATTCGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT176.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGCAAGCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT177.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGTTTCGAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT178.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCCATGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT179.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGTCTTGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT180.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ATAAGGCGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT181.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGTCTGCTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT182.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGCTTAACGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT183.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATCCATGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT184.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACCTCTGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT185.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCCACTTAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT186.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACCTGACTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT187.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTTAAGGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT188.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGCCAACGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT189.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGAGGTTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT190.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACCATCCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT191.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGGATAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT192.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTGAGATCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/

Table 9. | Plate P7.3

Well Position	Name	Sequence
A01	P7.IDT193.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTTCGTTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT194.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTCTAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT195.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACGTCGTAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT196.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGAGCTCAAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT197.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGTGTACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT198.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCACTGACAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT199.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTCGTAGTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT200.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCACGTAAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT201.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAAGCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT202.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACATAGGCCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT203.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGTGGTACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT204.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCACCCTAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT205.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTGCGTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT206.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACGGTCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT207.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGATTGGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT208.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGTCCAGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT209.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCAGTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT210.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGCACCAAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT211.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTGACAGGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT212.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGGCATAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT213.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTAGCCGAAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT214.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTGTCTGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT215.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCATCTACGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT216.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCATACAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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A04	P7.IDT217.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACAGCAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT218.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTGGTTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT219.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTCGACATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT220.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAAACCCTCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT221.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAGCGATTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT222.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGGTCACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT223.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCAATTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT224.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCTTCTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT225.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAACTGGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT226.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGGAATACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT227.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCTTCGAAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT228.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAAGGTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT229.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAACCTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT230.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCATACGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT231.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGGTCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT232.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACCGCATAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT233.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCTTCCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT234.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTACACGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT235.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGCGTAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT236.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAAGAGCCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT237.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATATGGAAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT238.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCCAGTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT239.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGTAGGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT240.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGAGTATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT241.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAAGTGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT242.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTCGAGTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT243.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTACAGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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D07	P7.IDT244.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATCGTAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT245.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTTACCAG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT246.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCAGCTAG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT247.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTGCTCT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT248.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>AACCGAAG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT249.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCCTGTTGT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT250.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTTACGGCT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT251.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GACAAGAG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT252.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGGATCTGG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT253.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTAGCATC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT254.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTGTTCC</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT255.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGGATGGT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT256.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCACGTT</u> CGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT257.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCGTTCT</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT258.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCTGGT</u> TGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT259.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTTAGGT</u> CGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT260.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTGAGAG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT261.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTTCAGC</u> CTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT262.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTCCG</u> ATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT263.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAGGTAT</u> CGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT264.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTCAGG</u> AGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT265.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>AAGGCT</u> GAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT266.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGATGC</u> TTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT267.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTATTGG</u> CGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT268.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>ACTGTG</u> TCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT269.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGCC</u> TCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT270.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAGTCT</u> TCGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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G10	P7.IDT271.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CATAACGGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
H10	P7.IDT272.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>CTGCTAGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
A11	P7.IDT273.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAT <u>TCTGGCGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
B11	P7.IDT274.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTCTCTCGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
C11	P7.IDT275.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCGAGTTGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
D11	P7.IDT276.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGAACTGTGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
E11	P7.IDT277.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>ACGGTCAGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
F11	P7.IDT278.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGCAGATGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
G11	P7.IDT279.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TATCAGCGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
H11	P7.IDT280.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCAGACGAGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
A12	P7.IDT281.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>CCATGTGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
B12	P7.IDT282.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTAACTCGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
C12	P7.IDT283.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCTTAGCTGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
D12	P7.IDT284.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CATGGAACGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
E12	P7.IDT285.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TAGGATGCGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
F12	P7.IDT286.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTTTCATGGGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
G12	P7.IDT287.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCGTGGATGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
H12	P7.IDT288.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATA <u>ACCTTCTCGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/

Table 10. | Plate P7.4

Well Position	Name	Sequence
A01	P7.IDT289.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CATTGCCTGTGACTGGAGTTCAGArCGTGTa</u> /3SpC3/
B01	P7.IDT290.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTAGGTGAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT291.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCGTATGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT292.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACGATGAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT293.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTTCGGTAAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT294.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCAAGGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT295.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGAAGCGT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT296.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTACTCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT297.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTAGGCAT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT298.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGGAGTTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT299.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAGGACTT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT300.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAATCGAC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT301.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTAACCG</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT302.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTCGCAAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT303.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ATCGGTGT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT304.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAGATACGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT305.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTCTCCTT</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT306.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGTCGACAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT307.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGGATTGAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT308.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CACAAGTC</u> GTGACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT309.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TACATCGGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT310.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGCTCCTAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT311.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACTCGTTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT312.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTGACACAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/

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A04	P7.IDT313.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCAACCTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT314.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAAGGACACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT315.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGCAGGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT316.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATACCTAAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT317.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGTCTGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT318.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGGTTTCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT319.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGACTATGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT320.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTTCAGGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT321.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGTGCGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT322.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGAGACTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT323.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTCAGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT324.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCCATAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT325.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTACCGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT326.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGCTCTGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT327.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGTTATGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT328.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGTCTGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT329.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTAGTTGCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT330.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGATCGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT331.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCAAGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT332.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCCTACTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT333.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCTTGCTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT334.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTGCCATTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT335.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTTGATCCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT336.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATAGTGCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT337.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATGACTTAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT338.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATCGTACGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT339.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGATTACCAGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/

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D07	P7.IDT340.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGTCAATGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT341.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAAGAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT342.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GACGAATGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT343.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGGAGGAAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT344.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTTACAGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT345.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAGATGTCG</u> TGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT346.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TACGGTTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT347.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTATCGCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT348.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCCAACCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT349.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAACGCTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT350.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAGAATCGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT351.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TATGGTTGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT352.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCTGGATTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT353.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATGCACTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT354.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACCAATGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT355.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTCCTAAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT356.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CCGACTATGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT357.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTGGTCTCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT358.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GCCTTGTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT359.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATACTGGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT360.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TATTCGAGGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT361.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTCAGTTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT362.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTAGAGCAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT363.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACGTGATGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT364.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TAAGTGGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT365.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGTGAAGCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT366.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CATTCGGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/

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G10	P7.IDT367.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TTGGTGAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT368.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CAGTTCTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT369.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AGGCTTCTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT370.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GAAATCGTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT371.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACCAGCTTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT372.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTCATTCGCT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT373.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGATAGAGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT374.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGGAGAGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT375.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GTATGCTGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT376.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CTGGAGTAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT377.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AAATGCCTCGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT378.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TGAGGTGTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT379.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>ACATTGCGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT380.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>TCTCTAGGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT381.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGCTAGTAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT382.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>AAATGGACGGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT383.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>GATAGCGAGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT384.Rd2x.x1	CAAGCAGAAGACGGCATAACGAGAT <u>CGACCATTGT</u> GACTGGAGTTCAGArCGTGTa/3SpC3/

Table 11. | TCR-Specific Primers

Name	Sequence	Notes
Rd1.AV01.x1	ctctttccctacacgacgctctttccgatctAACTGCACGTACCAGACATCTrGGGTa/3SpC3/	Amplifies TRAV1-1, TRAV1-2
Rd1.AV02.x1	ctctttccctacacgacgctctttccgatctTCATCGCTGCTCATCTCCrAGGTGa/3SpC3/	Amplifies TRAV2
Rd1.AV03.x1	ctctttccctacacgacgctctttccgatctCCTGGTTAAAGGCAGCTATGGrCTTTGc/3SpC3/	Amplifies TRAV3
Rd1.AV04.x1	ctctttccctacacgacgctctttccgatctGCCGACAGAAAGTCCAGCrACTCTa/3SpC3/	Amplifies TRAV4
Rd1.AV05.x1	ctctttccctacacgacgctctttccgatctTCTGCGCATTGCAGACACrCCAGAA/3SpC3/	Amplifies TRAV5
Rd1.AV06.x1	ctctttccctacacgacgctctttccgatctTGAAGGTACCTTTGATACCACCrCTTAAC/3SpC3/	Amplifies TRAV6
Rd1.AV07.x1	ctctttccctacacgacgctctttccgatctCCGTGCAGCCTGAAGATTCrAGCCAa/3SpC3/	Amplifies TRAV7
Rd1.AV08-1.x1	ctctttccctacacgacgctctttccgatctTGGTCAACACCTTCAGCTTCTrCCTCAc/3SpC3/	Amplifies TRAV8-1
Rd1.AV08-2/4/6.x1	ctctttccctacacgacgctctttccgatctAAGGACTCCAGCTTCTCTGrAAGTAG/3SpC3/	Amplifies TRAV8-2, TRAV8-4, TRAV8-6
Rd1.AV08-3.x1	ctctttccctacacgacgctctttccgatctGGAACCCCTCTGTGCATTGGrAGTGAc/3SpC3/	Amplifies TRAV8-3
Rd1.AV9.x1	ctctttccctacacgacgctctttccgatctGAAACCACTTCTTTCCACTTGGArGAAAGc/3SpC3/	Amplifies TRAV9-1, TRAV9-2
Rd1.AV10.x1	ctctttccctacacgacgctctttccgatctCACAAAGCAAAGCTCTCTGCArCATCAa/3SpC3/	Amplifies TRAV10
Rd1.AV12.x1	ctctttccctacacgacgctctttccgatctCAGTGATTCAGCCACCTACCTrCTGTGa/3SpC3/	Amplifies TRAV12-1, TRAV12-2, TRAV12-3
Rd1.AV13-1.x1	ctctttccctacacgacgctctttccgatctACAAGACAGCCAAACATTTCTCCrCTGCAa/3SpC3/	Amplifies TRAV13-1
Rd1.AV13-2.x1	ctctttccctacacgacgctctttccgatctTGCAGTACTCAACCTGGArGACTCc/3SpC3/	Amplifies TRAV13-2
Rd1.AV14.x1	ctctttccctacacgacgctctttccgatctACCTTGTCATCTCCGCTTCArCAACTa/3SpC3/	Amplifies TRAV14/DV4
Rd1.AV16.x1	ctctttccctacacgacgctctttccgatctGGCGAGACATCTTTCCACCTrGAAGAc/3SpC3/	Amplifies TRAV16
Rd1.AV17.x1	ctctttccctacacgacgctctttccgatctAGTCACGCTTGACACTTCCArAGAAAc/3SpC3/	Amplifies TRAV17
Rd1.AV18.x2	ctctttccctacacgacgctctttccgatctCAGTTCCTTCCACCTGGAGArAGCCCa/3SpC3/	Amplifies TRAV18
Rd1.AV19.x1	ctctttccctacacgacgctctttccgatctCACAGCCTCACAAAGTCGTGrGACTCc/3SpC3/	Amplifies TRAV19
Rd1.AV20.x1	ctctttccctacacgacgctctttccgatctCTGCACATCACAGCCCTArAACCTa/3SpC3/	Amplifies TRAV20
Rd1.AV21.x1	ctctttccctacacgacgctctttccgatctACATTGCAGCTTCTCAGCCTrGGTGAA/3SpC3/	Amplifies TRAV21
Rd1.AV22.x1	ctctttccctacacgacgctctttccgatctTCCTCTTCCCAGACCAGArCTCAGA/3SpC3/	Amplifies TRAV22
Rd1.AV23.x1	ctctttccctacacgacgctctttccgatctGATTCGCCAGCCTGGAGACTCrAGCCAa/3SpC3/	Amplifies TRAV23/DV6

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Rd1.AV24.x1	ctctttccctacacgacgctcttccgatctGTACATCAAAGGATCCCAGCCTrGAAGAA/3SpC3/	Amplifies TRAV24
Rd1.AV25.x1	ctctttccctacacgacgctcttccgatctGCCACCCAGACTACAGATGTrAGGAAA/3SpC3/	Amplifies TRAV25
Rd1.AV26-1.x1	ctctttccctacacgacgctcttccgatctCGCTACGCTGAGAGACTrGCTGTa/3SpC3/	Amplifies TRAV26-1
Rd1.AV26-2.x1	ctctttccctacacgacgctcttccgatctTGGCAATCGCTGAAGACAGArAAGTca/3SpC3/	Amplifies TRAV26-2
Rd1.AV27.x1	ctctttccctacacgacgctcttccgatctTGCAAGAAAGGACAGTTCTCTCCrACATCc/3SpC3/	Amplifies TRAV27
Rd1.AV29.x1	ctctttccctacacgacgctcttccgatctTGGAGACTCTGCGAGTGTACTTCTrGTGCAa/3SpC3/	Amplifies TRAV29/DV5
Rd1.AV30.x1	ctctttccctacacgacgctcttccgatctGCAAAGCTCCCTGTACTTACGrGCCTCa/3SpC3/	Amplifies TRAV30
Rd1.AV34.x1	ctctttccctacacgacgctcttccgatctCCAGCCATGCAGGCATCTArCCTCTa/3SpC3/	Amplifies TRAV34
Rd1.AV35.x1	ctctttccctacacgacgctcttccgatctGCATCCATACCTAGTGATGTAGGCrATCTAa/3SpC3/	Amplifies TRAV35
Rd1.AV36.x1	ctctttccctacacgacgctcttccgatctAGCATCCTGAACATCACAGCCrACCCAA/3SpC3/	Amplifies TRAV36/DV7
Rd1.AV38.x1	ctctttccctacacgacgctcttccgatctGCAGCCAAATCCTTCAGTCTCArAGATCc/3SpC3/	Amplifies TRAV38-1,TRAV38-2
Rd1.AV39.x1	ctctttccctacacgacgctcttccgatctTGCATGACCTCTCTGCCArCTACTc/3SpC3/	Amplifies TRAV39
Rd1.AV40.x2	ctctttccctacacgacgctcttccgatctCCCCATTGTGAAATATTTCAGTCCrAGGTAc/3SpC3/	Amplifies TRAV40
Rd1.AV41.x1	ctctttccctacacgacgctcttccgatctCCCATCCAGAGACTCTGCrCGTCTc/3SpC3/	Amplifies TRAV41
Rd1.BV02.x1	ctctttccctacacgacgctcttccgatctTCTGAAGATCCGGTCCACAAAGrCTGGAA/3SpC3/	Amplifies TRBV2
Rd1.BV03.x1	ctctttccctacacgacgctcttccgatctCAATTCCCTGGAGCTTGGTGArCTCTGa/3SpC3/	Amplifies TRBV3-1,TRBV3-2
Rd1.BV04.x1	ctctttccctacacgacgctcttccgatctTCTCACCTGAATGCCCAACrAGCTCc/3SpC3/	Amplifies TRBV4-1,TRBV4-2,TRBV4-3
Rd1.BV05-1.x1	ctctttccctacacgacgctcttccgatctCGCTCTGAGATGAATGTGAGCArCCTTGa/3SpC3/	Amplifies TRBV5-1
Rd1.BV05-4/5/6/8.x1	ctctttccctacacgacgctcttccgatctCTCTGAGCTGAATGTGAACGrCTTGGc/3SpC3/	Amplifies TRBV5-4,TRBV5-5,TRBV5-6,TRBV5-7,TRBV5-8
Rd1.BV06-1to6.x1	ctctttccctacacgacgctcttccgatctACATCTGTGTACTTCTGTGCCAGrCAGTGc/3SpC3/	Amplifies TRBV6-1,TRBV6-2,TRBV6-3,TRBV6-4,TRBV6-5,TRBV6-6
Rd1.BV06-8/9.x1	ctctttccctacacgacgctcttccgatctCCTGGTATCGACAAGACCCAGrGCATGa/3SpC3/	Amplifies TRBV6-8,TRBV6-9
Rd1.BV07-2/6.x1	ctctttccctacacgacgctcttccgatctCTCCACTCTGACGATCCAGCrGCACAA/3SpC3/	Amplifies TRBV7-2,TRBV7-6
Rd1.BV07-3.x1	ctctttccctacacgacgctcttccgatctCTACTCTGAAGATCCAGCGCArCAGAGa/3SpC3/	Amplifies TRBV7-3
Rd1.BV07-4/6/7.x1	ctctttccctacacgacgctcttccgatctCGGTTCTCTGCAGAGAGGrCTGAGt/3SpC3/	Amplifies TRBV7-4,TRBV7-6,TRBV7-7
Rd1.BV07-8.x1	ctctttccctacacgacgctcttccgatctGGATCCGTCTCCACTCTGAAGrATCCAA/3SpC3/	Amplifies TRBV7-8
Rd1.BV07-9.x1	ctctttccctacacgacgctcttccgatctTCCACCTTGGAGATCCAGCrGCACAA/3SpC3/	Amplifies TRBV7-9
Rd1.BV09.x1	ctctttccctacacgacgctcttccgatctACGATTCTCCGCACAACAGTTrCCCTGc/3SpC3/	Amplifies TRBV9

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Rd1.BV10-1.x1	ctctttccctacacgacgctcttccgatctCCTCACTCTGGAGTCTGCTGrCCTCCa/3SpC3/	Amplifies TRBV10-1
Rd1.BV10-2.x1	ctctttccctacacgacgctcttccgatctCCCCTCACTCTGGAGTCAGrCTACCa/3SpC3/	Amplifies TRBV10-2
Rd1.BV10-3.x1	ctctttccctacacgacgctcttccgatctGCTACCAGCTCCCAGACATrCTGTGc/3SpC3/	Amplifies TRBV10-3
Rd1.BV11.x1	ctctttccctacacgacgctcttccgatctAGGCTCAAAGGAGTAGACTCCArCTCTCc/3SpC3/	Amplifies TRBV11-1,TRBV11-2,TRBV11-3
Rd1.BV12.x1	ctctttccctacacgacgctcttccgatctATCCAGCCCTCAGAACCCrAGGGAA/3SpC3/	Amplifies TRBV12-3,TRBV12-4,TRBV12-5
Rd1.BV13.x1	ctctttccctacacgacgctcttccgatctGAACTGAACATGAGCTCCTTGGArGCTGGA/3SpC3/	Amplifies TRBV13
Rd1.BV14.x1	ctctttccctacacgacgctcttccgatctCTACTCTGAAGGTGCAGCCTrGCAGAc/3SpC3/	Amplifies TRBV14
Rd1.BV15.x1	ctctttccctacacgacgctcttccgatctCAGGAGGCCGAACACTTCTTTrCTGTc/3SpC3/	Amplifies TRBV15
Rd1.BV16.x1	ctctttccctacacgacgctcttccgatctACGAAGCTTGAGGATTCAGCArGTGTAc/3SpC3/	Amplifies TRBV16
Rd1.BV18.x1	ctctttccctacacgacgctcttccgatctGCATCCTGAGGATCCAGCArGGTAGc/3SpC3/	Amplifies TRBV18
Rd1.BV19.x1	ctctttccctacacgacgctcttccgatctCCAAAAGAACCAGACAGCTTCTrATCTCc/3SpC3/	Amplifies TRBV19
Rd1.BV20.x1	ctctttccctacacgacgctcttccgatctCAGTGCCCATCTGAAGACArGCAGCc/3SpC3/	Amplifies TRBV20-1
Rd1.BV24.x1	ctctttccctacacgacgctcttccgatctTCTCCCTGTCCCTAGAGTCTGrCCATCa/3SpC3/	Amplifies TRBV24-1
Rd1.BV25.x1	ctctttccctacacgacgctcttccgatctACAGTCTCAGAAATAAGGACGGArGCATTc/3SpC3/	Amplifies TRBV25-1
Rd1.BV27.x1	ctctttccctacacgacgctcttccgatctCCCCAACAGACCTCTCTGTArCTTCTa/3SpC3/	Amplifies TRBV27
Rd1.BV28.x1	ctctttccctacacgacgctcttccgatctCCAGCACCAACAGACATCTrATGTAA/3SpC3/	Amplifies TRBV28
Rd1.BV29.x1	ctctttccctacacgacgctcttccgatctGAGCAACATGAGCCCTGAAGArCAGCAa/3SpC3/	Amplifies TRBV29-1
Rd1.BV30.x1	ctctttccctacacgacgctcttccgatctCTCTCAGCCTCCAGACCCrCAGGAa/3SpC3/	Amplifies TRBV30
Rd2.AC.x1	gtgactggagttcagacgtgtgctcttccgatctTCAGCTGGTACACGGCArGGGTct/3SpC3/	Amplifies all alpha transcripts
Rd2.BC.x1	gtgactggagttcagacgtgtgctcttccgatctTCTCTGCTTCTGATGGCTCArAACACc/3SpC3/	Amplifies all beta transcripts

Table 12. | MiSeq Sample Sheet for 384-well plate

[Header]

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IEMFileVersion          4
Investigator
Name                   Shuqiang
Project Name           Shuqiang TCR
Experiment Name        384 scTCRseq
Date                   xx/xx/xxxx
Workflow               GenerateFASTQ
Application            FASTQ Only
Assay                  amplicon
Description
Chemistry              Amplicon

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[Reads]

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248
48

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[Settings]

[Data]

Sample_ID	Sample_Name	Sample_Plate	Sample_Well	Sample_Project	index	I7_Index_ID	index2	I5_Index_ID	GenomeFolder
A01	S1				TGATAGGC	IDT097	CTGATCGT	IDT001	
A02	S2				GAACGAAG	IDT193	GCCTATCA	IDT097	
A03	S3				CCAAGTAG	IDT105	CGGCTAAT	IDT009	
A04	S4				ACTGCTTG	IDT201	CTACTTGG	IDT105	
A05	S5				GTCAGTCA	IDT113	GACGATCT	IDT017	
A06	S6				AACACTGG	IDT209	TGACTGAC	IDT113	
A07	S7				ACAAGCTC	IDT121	CCTTGATC	IDT025	
A08	S8				GTTGCTGT	IDT217	GAGCTTGT	IDT121	
A09	S9				CTAACCTG	IDT129	GTGAAGTG	IDT033	
A10	S10				CACCAGTT	IDT225	CAGGTTAG	IDT129	
A11	S11				AACACCAC	IDT137	GTTGTTCG	IDT041	
A12	S12				AAGGAAGG	IDT233	GTGGTGTT	IDT137	

SINGLE CELL TCR SEQUENCING SOP V1

A13	S13	ATTCGGCT	IDT145	GAGCAGTA	IDT049
A14	S14	TGCACTTG	IDT241	AGCGGAAT	IDT145
A15	S15	CTCAAGCT	IDT153	ATGACGTC	IDT057
A16	S16	ACAACAGC	IDT249	AGCTTGAG	IDT153
A17	S17	CACAGGAA	IDT161	CGCTCTAT	IDT065
A18	S18	TAGAACGC	IDT257	TTCCTGTG	IDT161
A19	S19	AGAAGGAC	IDT169	GTTGACCT	IDT073
A20	S20	TCAGCCTT	IDT265	GTCCTTCT	IDT169
A21	S21	CTCGAACA	IDT177	CGACGTTA	IDT081
A22	S22	GCCAGAAT	IDT273	TGTTTCGAG	IDT177
A23	S23	TAAGTGGC	IDT185	GTTCTCGT	IDT089
A24	S24	CACATGGT	IDT281	GCCACTTA	IDT185
B01	S25	AGGCAATG	IDT289	CTTCGTTC	IDT193
B02	S26	ACGATCAG	IDT001	CATTGCCT	IDT289
B03	S27	ATGCCTAG	IDT297	CAAGCAGT	IDT201
B04	S28	ATTAGCCG	IDT009	CTAGGCAT	IDT297
B05	S29	AAGGAGAC	IDT305	CCAGTGTT	IDT209
B06	S30	AGATCGTC	IDT017	GTCTCCTT	IDT305
B07	S31	CTAGGTTG	IDT313	ACAGCAAC	IDT217
B08	S32	GATCAAGG	IDT025	CAACCTAG	IDT313
B09	S33	AACGCACA	IDT321	AACTGGTG	IDT225
B10	S34	CACTTCAC	IDT033	TGTGCGTT	IDT321
B11	S35	CGCAACTA	IDT329	CCTTCCTT	IDT233
B12	S36	CGAACAAAC	IDT041	TAGTTGCG	IDT329
B13	S37	CCTAAGTC	IDT337	CAAGTGCA	IDT241
B14	S38	TACTGCTC	IDT049	GACTTAGG	IDT337
B15	S39	GACATCTC	IDT345	GCTGTTGT	IDT249
B16	S40	GACGTCAT	IDT057	GAGATGTC	IDT345
B17	S41	AGTGCATC	IDT353	GCGTTCTA	IDT257
B18	S42	ATAGAGCG	IDT065	GATGCACT	IDT353
B19	S43	CAACTGAC	IDT361	AAGGCTGA	IDT265
B20	S44	AGGTCAAC	IDT073	GTCAGTTG	IDT361
B21	S45	AGAAGCCT	IDT369	ATTCTGGC	IDT273
B22	S46	TAACGTCG	IDT081	AGGCTTCT	IDT369
B23	S47	GAGGCATT	IDT377	ACCATGTG	IDT281
B24	S48	ACGAGAAC	IDT089	AATGCCTC	IDT377

SINGLE CELL TCR SEQUENCING SOP V1

C01	S49	CATCCAAG	IDT098	ACTCTCGA	IDT002
C02	S50	ACCTAGAC	IDT194	CTTGGATG	IDT098
C03	S51	AACTGAGG	IDT106	ATCGATCG	IDT010
C04	S52	GCCTATGT	IDT202	CCTCAGTT	IDT106
C05	S53	CACGTCTA	IDT114	AACTGAGC	IDT018
C06	S54	TTGGTGCA	IDT210	TAGACGTG	IDT114
C07	S55	GAACCTTC	IDT122	GTCGAAGA	IDT026
C08	S56	AGAACCAG	IDT218	GAAGGTTC	IDT122
C09	S57	AGCCAACT	IDT130	CATGGCTA	IDT034
C10	S58	GTATTCCG	IDT226	AGTTGGCT	IDT130
C11	S59	GTAAGCAC	IDT138	CGGTTGTT	IDT042
C12	S60	AGCGTGTA	IDT234	GTGCTTAC	IDT138
C13	S61	AAGCTCAC	IDT146	AGTTCGTC	IDT050
C14	S62	TCACTCGA	IDT242	GTGAGCTT	IDT146
C15	S63	AACCACTC	IDT154	TTGGACGT	IDT058
C16	S64	AGCCGTAA	IDT250	GAGTGGTT	IDT154
C17	S65	ACTCAACG	IDT162	TATCGGTC	IDT066
C18	S66	AACCAGAG	IDT258	CGTTGAGT	IDT162
C19	S67	GCGTATCA	IDT170	CGTGTGTA	IDT074
C20	S68	AAGCATCG	IDT266	TGATACGC	IDT170
C21	S69	ACATGGAG	IDT178	TACGCCTT	IDT082
C22	S70	CGAGAGAA	IDT274	CTCCATGT	IDT178
C23	S71	AGTCAGGT	IDT186	TCAGGCTT	IDT090
C24	S72	CGAGTTAG	IDT282	ACCTGACT	IDT186
D01	S73	TCACCTAG	IDT290	GTCTAGGT	IDT194
D02	S74	TCGAGAGT	IDT002	CTAGGTGA	IDT290
D03	S75	CAACTCCA	IDT298	ACATAGGC	IDT202
D04	S76	CGATCGAT	IDT010	TGGAGTTG	IDT298
D05	S77	TGTCGACT	IDT306	TGCACCAA	IDT210
D06	S78	GCTCAGTT	IDT018	AGTCGACA	IDT306
D07	S79	GTGTCCTT	IDT314	CTGGTCTT	IDT218
D08	S80	TCTTCGAC	IDT026	AAGGACAC	IDT314
D09	S81	TAGTCTCG	IDT322	CGGAATAC	IDT226
D10	S82	TAGCCATG	IDT034	CGAGACTA	IDT322
D11	S83	TCCGATCA	IDT330	TACACGCT	IDT234
D12	S84	AACAACCG	IDT042	TGATCGGA	IDT330

SINGLE CELL TCR SEQUENCING SOP V1

D13	S85	TTCGTACG	IDT338	TCGAGTGA	IDT242
D14	S86	GACGAACT	IDT050	CGTACGAA	IDT338
D15	S87	CAACCGTA	IDT346	TTACGGCT	IDT250
D16	S88	ACGTCCAA	IDT058	TACGGTTG	IDT346
D17	S89	GCATTGGT	IDT354	CTCTGGTT	IDT258
D18	S90	GACCGATA	IDT066	ACCAATGC	IDT354
D19	S91	TGCTCTAC	IDT362	CGATGCTT	IDT266
D20	S92	TACACACG	IDT074	GTAGAGCA	IDT362
D21	S93	CACGATTC	IDT370	TTCTCTCG	IDT274
D22	S94	AAGGCGTA	IDT082	GAATCGTG	IDT370
D23	S95	ACACCTCA	IDT378	CTAACTCG	IDT282
D24	S96	AAGCCTGA	IDT090	TGAGGTGT	IDT378
E01	S97	GTGAGACT	IDT099	TGAGCTAG	IDT003
E02	S98	TACGACGT	IDT195	AGTCTCAC	IDT099
E03	S99	AGGTAGGA	IDT107	GCAAGATC	IDT011
E04	S100	GTACCACA	IDT203	TCCTACCT	IDT107
E05	S101	AATTCGGG	IDT115	CTTAGGAC	IDT019
E06	S102	CCTGTCAA	IDT211	CCGGAATT	IDT115
E07	S103	AGCGAGAT	IDT123	ACCACGAT	IDT027
E08	S104	GATGTGCA	IDT219	ATCTCGCT	IDT123
E09	S105	CCAGTTGA	IDT131	ATGCCTGT	IDT035
E10	S106	TTCGAAGC	IDT227	TCAACTGG	IDT131
E11	S107	GTCCTTGA	IDT139	ACTGAGGT	IDT043
E12	S108	TCTACGCA	IDT235	TCAAGGAC	IDT139
E13	S109	TGATCACG	IDT147	TTGCGAAG	IDT051
E14	S110	CACTGTAG	IDT243	CGTGATCA	IDT147
E15	S111	CTTACAGC	IDT155	AGTGGATC	IDT059
E16	S112	CTCTTGTC	IDT251	GCTGTAAG	IDT155
E17	S113	AAGCGACT	IDT163	AACGCTCTG	IDT067
E18	S114	CGACCTAA	IDT259	AGTCGCTT	IDT163
E19	S115	CAACACAG	IDT171	ACGACTTG	IDT075
E20	S116	GCCAATAC	IDT267	CTGTGTTG	IDT171
E21	S117	ACAAGACG	IDT179	CCGTAAGA	IDT083
E22	S118	AACTCGGA	IDT275	CGTCTTGT	IDT179
E23	S119	GCCTTAAC	IDT187	CCTTGTAG	IDT091
E24	S120	AGCTAAGC	IDT283	GTTAAGGC	IDT187

SINGLE CELL TCR SEQUENCING SOP V1

F01	S121	CATACGGA	IDT291	ACGTCGTA	IDT195
F02	S122	CTAGCTCA	IDT003	TCCGTATG	IDT291
F03	S123	AAGTCCTC	IDT299	TGTGGTAC	IDT203
F04	S124	GATCTTGC	IDT011	GAGGACTT	IDT299
F05	S125	TCAATCCG	IDT307	TTGACAGG	IDT211
F06	S126	GTCCTAAG	IDT019	CGGATTGA	IDT307
F07	S127	TACCTGCA	IDT315	TCGACATC	IDT219
F08	S128	ATCGTGGT	IDT027	TGCAGGTA	IDT315
F09	S129	ACTCTGAG	IDT323	GCTTCGAA	IDT227
F10	S130	ACAGGCAT	IDT035	CTCAGAGT	IDT323
F11	S131	CAACTTGG	IDT331	TGCGTAGA	IDT235
F12	S132	ACCTCAGT	IDT043	CCAAGTTG	IDT331
F13	S133	TCCTGGTA	IDT339	CTACAGTG	IDT243
F14	S134	CTTCGCAA	IDT051	TACCAGGA	IDT339
F15	S135	TGCGATAG	IDT347	GACAAGAG	IDT251
F16	S136	GATCCACT	IDT059	CTATCGCA	IDT347
F17	S137	CTTAGGAC	IDT355	TTAGGTCC	IDT259
F18	S138	CAGACGTT	IDT067	GTCCTAAG	IDT355
F19	S139	CATCACGT	IDT363	GTATTGGC	IDT267
F20	S140	CAAGTCGT	IDT075	ACGTGATG	IDT363
F21	S141	AAGCTGGT	IDT371	TCCGAGTT	IDT275
F22	S142	TCCTACGG	IDT083	ACCAGCTT	IDT371
F23	S143	CGCAATGT	IDT379	GCTTAGCT	IDT283
F24	S144	CTACAAGG	IDT091	ACATTGCG	IDT379
G01	S145	CTGATGAG	IDT100	GAGACGAT	IDT004
G02	S146	TTGAGCTC	IDT196	CTCATCAG	IDT100
G03	S147	TTCCGCAT	IDT108	GCTATCCT	IDT012
G04	S148	TAGTGGTG	IDT204	ATGGCGAA	IDT108
G05	S149	TCTAGGAG	IDT116	GTGCCATA	IDT020
G06	S150	CTATGCCT	IDT212	CTCCTAGA	IDT116
G07	S151	CCGTAACT	IDT124	GATTACCG	IDT028
G08	S152	AGGAGGTT	IDT220	AGTTACGG	IDT124
G09	S153	AAGTGCAG	IDT132	CAACACCT	IDT036
G10	S154	AGACCTTG	IDT228	CTGCACTT	IDT132
G11	S155	CAGGTTC A	IDT140	TGAAGACG	IDT044
G12	S156	TGGCTCTT	IDT236	TGAACCTG	IDT140

SINGLE CELL TCR SEQUENCING SOP V1

G13	S157	CAATGCGA	IDT148	ATCGCCAT	IDT052
G14	S158	GTACGATC	IDT244	TCGCATTG	IDT148
G15	S159	AGTCTTGG	IDT156	GATAGGCT	IDT060
G16	S160	CAGATCCT	IDT252	CCAAGACT	IDT156
G17	S161	CCTACCTA	IDT164	ACGTTCAG	IDT068
G18	S162	CTCTCAGA	IDT260	TAGGTAGG	IDT164
G19	S163	TCCACGTT	IDT172	CACTAGCT	IDT076
G20	S164	GACACAGT	IDT268	AACGTGGA	IDT172
G21	S165	CGCCTTAT	IDT180	ATCACACG	IDT084
G22	S166	ACAGTTCG	IDT276	ATAAGGCG	IDT180
G23	S167	GTTGGCAT	IDT188	GAACATCG	IDT092
G24	S168	GTTCATG	IDT284	ATGCCAAC	IDT188
H01	S169	GTCATCGT	IDT292	GAGCTCAA	IDT196
H02	S170	ATCGTCTC	IDT004	ACGATGAC	IDT292
H03	S171	GTCGATTG	IDT300	CACCACTA	IDT204
H04	S172	AGGATAGC	IDT012	CAATCGAC	IDT300
H05	S173	GACTTGTG	IDT308	AGGCATAG	IDT212
H06	S174	TATGGCAC	IDT020	CACAAGTC	IDT308
H07	S175	CCTTAGGT	IDT316	AACCTCCT	IDT220
H08	S176	CGGTAATC	IDT028	ACCTAAGG	IDT316
H09	S177	GTTATGGC	IDT324	CAAGGTCT	IDT228
H10	S178	AGGTGTTG	IDT036	GCCATAAC	IDT324
H11	S179	TCAGTAGG	IDT332	AAGAGCCA	IDT236
H12	S180	CGTCTTCA	IDT044	CCTACTGA	IDT332
H13	S181	CATTGACG	IDT340	GATCGTAC	IDT244
H14	S182	ATGGCGAT	IDT052	CGTCAATG	IDT340
H15	S183	TGGTTCGA	IDT348	AGGATCTG	IDT252
H16	S184	AGCCTATC	IDT060	TCGAACCA	IDT348
H17	S185	ATAGTCGG	IDT356	TCTGAGAG	IDT260
H18	S186	CTGAACGT	IDT068	CCGACTAT	IDT356
H19	S187	GCCACTTA	IDT364	ACTGTGTC	IDT268
H20	S188	AGCTAGTG	IDT076	TAAGTGGC	IDT364
H21	S189	GCAATGAG	IDT372	CGAACTGT	IDT276
H22	S190	CGTGTGAT	IDT084	CTCATTGC	IDT372
H23	S191	CCTAGAGA	IDT380	CATGGAAC	IDT284
H24	S192	CGATGTTC	IDT092	TCTCTAGG	IDT380

SINGLE CELL TCR SEQUENCING SOP V1

I01	S193	ACGGTACA	IDT101	CTTGTCGA	IDT005
I02	S194	AGTACACG	IDT197	TGTACCGT	IDT101
I03	S195	CAGGTAAG	IDT109	TACGCTAC	IDT013
I04	S196	ATACGCAG	IDT205	CTTACCTG	IDT109
I05	S197	ATCCGGTTG	IDT117	GAATCCGA	IDT021
I06	S198	TTCGGCTA	IDT213	CAACGGAT	IDT117
I07	S199	TCAGACAC	IDT125	GCACAAC	IDT029
I08	S200	AATCGCTG	IDT221	GTGTCTGA	IDT125
I09	S201	AACCGTGT	IDT133	TGTGACTG	IDT037
I10	S202	CCAAGGTT	IDT229	ACACGGTT	IDT133
I11	S203	CCAACACT	IDT141	GTTACGCA	IDT045
I12	S204	CCTTCCAT	IDT237	AGTGTGG	IDT141
I13	S205	ATGCGTCA	IDT149	TGGCATGT	IDT053
I14	S206	TGGTGAAG	IDT245	TGACGCAT	IDT149
I15	S207	CACGCAAT	IDT157	TGGTAGCT	IDT061
I16	S208	GATGCTAC	IDT253	ATTGCGTG	IDT157
I17	S209	ATCTCCTG	IDT165	CAGTCCAA	IDT069
I18	S210	AGGCTGAA	IDT261	CAGGAGAT	IDT165
I19	S211	ATCGCAAC	IDT173	ACTAGGAG	IDT077
I20	S212	AAGAGGCA	IDT269	GTTGCGAT	IDT173
I21	S213	AGCAGACA	IDT181	CACCTGTT	IDT085
I22	S214	TGACCGTT	IDT277	TGTCTGCT	IDT181
I23	S215	CAACCTCT	IDT189	TAACCGGT	IDT093
I24	S216	GCATCCTA	IDT285	AGAGGTTG	IDT189
J01	S217	TTACCGAC	IDT293	CGTGACT	IDT197
J02	S218	TCGACAAG	IDT005	GTCGGTAA	IDT293
J03	S219	GCGTTAGA	IDT301	CTGCGTAT	IDT205
J04	S220	GTAGCGTA	IDT013	TCTAACGC	IDT301
J05	S221	CCGATGTA	IDT309	TAGCCGAA	IDT213
J06	S222	TCGGATTC	IDT021	TACATCGG	IDT309
J07	S223	CACAGACT	IDT317	CAGCGATT	IDT221
J08	S224	AGTTGTGC	IDT029	AGTCTGTG	IDT317
J09	S225	CTCGGTAA	IDT325	AACCTTGG	IDT229
J10	S226	CAGTCACA	IDT037	TTACCGAG	IDT325
J11	S227	ACAGCAAG	IDT333	ATGGAAGG	IDT237
J12	S228	TGCGTAAC	IDT045	CTTGCTGT	IDT333

SINGLE CELL TCR SEQUENCING SOP V1

J13	S229	ACCTCTTC	IDT341	CTTCACCA	IDT245
J14	S230	ACATGCCA	IDT053	GAAGAGGT	IDT341
J15	S231	AAGCGTTC	IDT349	GTAGCATC	IDT253
J16	S232	AGCTACCA	IDT061	GAACGCTT	IDT349
J17	S233	GAGACCAA	IDT357	TTCAGCCT	IDT261
J18	S234	TTGGACTG	IDT069	TTGGTCTC	IDT357
J19	S235	GCTTCACA	IDT365	TGCCCTCT	IDT269
J20	S236	CTCCTAGT	IDT077	TGTGAAGC	IDT365
J21	S237	CTCTATCG	IDT373	AACGGTCA	IDT277
J22	S238	AACAGGTG	IDT085	CGATAGAG	IDT373
J23	S239	TACTAGCG	IDT381	TAGGATGC	IDT285
J24	S240	ACCGGTTA	IDT093	CGCTAGTA	IDT381
K01	S241	CTCGACTT	IDT102	TTCCAAGG	IDT006
K02	S242	TGTCAGTG	IDT198	AAGTCGAG	IDT102
K03	S243	GTATCGAG	IDT110	TGGACTCT	IDT014
K04	S244	AAGACCGT	IDT206	CTCGATAC	IDT110
K05	S245	GATAGCCA	IDT118	TCGCTGTT	IDT022
K06	S246	ACCGACAA	IDT214	TGGCTATC	IDT118
K07	S247	CGAAGTCA	IDT126	GCGTCATT	IDT030
K08	S248	AGTGACCT	IDT222	TGACTTCG	IDT126
K09	S249	CGCGTATT	IDT134	GTCATCGA	IDT038
K10	S250	ACGTATGG	IDT230	AATACGCG	IDT134
K11	S251	GAGAGTAC	IDT142	AGCGTGTT	IDT046
K12	S252	ATACTGGC	IDT238	GTA CTCTC	IDT142
K13	S253	TACATCGG	IDT150	CTGTTGAC	IDT054
K14	S254	TAGCTGAG	IDT246	CCGATGTA	IDT150
K15	S255	AGCTTCAG	IDT158	CGCAATCT	IDT062
K16	S256	AGGAACAC	IDT254	CTGAAGCT	IDT158
K17	S257	TCACGATG	IDT166	TTGCAGAC	IDT070
K18	S258	ATCGGAGA	IDT262	CATCGTGA	IDT166
K19	S259	ACGTCGTT	IDT174	GTAGGAGT	IDT078
K20	S260	GAAGACTG	IDT270	AACGACGT	IDT174
K21	S261	GTTAAGCG	IDT182	CTTCGACT	IDT086
K22	S262	CATCTGCT	IDT278	CGCTTAAC	IDT182
K23	S263	TGGATGGT	IDT190	AACCGTTC	IDT094
K24	S264	CCATGAAC	IDT286	ACCATCCA	IDT190

SINGLE CELL TCR SEQUENCING SOP V1

L01	S265	ACCTTCGA	IDT294	CACTGACA	IDT198
L02	S266	CCTTGGA	IDT006	TCGAAGGT	IDT294
L03	S267	TTGCGAGA	IDT302	ACGGTCTT	IDT206
L04	S268	AGAGTCCA	IDT014	TCTCGCAA	IDT302
L05	S269	TAGGAGCT	IDT310	TTGTCCGT	IDT214
L06	S270	AACAGCGA	IDT022	AGCTCCTA	IDT310
L07	S271	TCGAACCT	IDT318	AGGTCACT	IDT222
L08	S272	AATGACGC	IDT030	AGGTTCGA	IDT318
L09	S273	TACAGAGC	IDT326	CCATACGT	IDT230
L10	S274	TCGATGAC	IDT038	GCTCTGTA	IDT326
L11	S275	GAATGGCA	IDT334	GCCAGTAT	IDT238
L12	S276	AACACGCT	IDT046	TGCCATTC	IDT334
L13	S277	CATTCGTC	IDT342	CTCAGCTA	IDT246
L14	S278	GTCAACAG	IDT054	GACGAATG	IDT342
L15	S279	CGATTCTG	IDT350	GTGTTCCCT	IDT254
L16	S280	AGATTGCG	IDT062	CAGAATCG	IDT350
L17	S281	AACAAGGC	IDT358	TCTCCGAT	IDT262
L18	S282	GTCTGCAA	IDT070	GCCTTGTT	IDT358
L19	S283	ACCGAATG	IDT366	CAGTCTTC	IDT270
L20	S284	ACTCCTAC	IDT078	CATTCGGT	IDT366
L21	S285	ACTCTCCA	IDT374	AGCAGATG	IDT278
L22	S286	AGTCGAAG	IDT086	TGGAGAGT	IDT374
L23	S287	CGTCCATT	IDT382	GTTCCATGG	IDT286
L24	S288	GAACGGTT	IDT094	AATGGACG	IDT382
M01	S289	ACAACGTG	IDT103	CGCATGAT	IDT007
M02	S290	GACTACGA	IDT199	CACGTTGT	IDT103
M03	S291	TTCACGGA	IDT111	AGAGTAGC	IDT015
M04	S292	CTCCAATC	IDT207	TCCGTGAA	IDT111
M05	S293	TATGACCG	IDT119	TTCGTTGG	IDT023
M06	S294	CGTAGATG	IDT215	CGGTCATA	IDT119
M07	S295	GTGATCCA	IDT127	ATCCGGTA	IDT031
M08	S296	CGAATTGC	IDT223	TGGATCAC	IDT127
M09	S297	AGTTCGCA	IDT135	AGCACTTC	IDT039
M10	S298	AAGGACCA	IDT231	TGCGAACT	IDT135
M11	S299	AGATACGG	IDT143	GATCGAGT	IDT047
M12	S300	AACCTACG	IDT239	CCGTATCT	IDT143

SINGLE CELL TCR SEQUENCING SOP V1

M13	S301	ACTGCGAA	IDT151	CATACCAC	IDT055
M14	S302	AGAGCAGA	IDT247	TTCGCAGT	IDT151
M15	S303	CCTCGTTA	IDT159	GATGTGTG	IDT063
M16	S304	ACCATCCT	IDT255	TAACGAGG	IDT159
M17	S305	CCACAACA	IDT167	CAATGTGG	IDT071
M18	S306	GATACCTG	IDT263	TGTTGTGG	IDT167
M19	S307	CGAATACG	IDT175	CCTGATTG	IDT079
M20	S308	CCGTTATG	IDT271	CGTATTCG	IDT175
M21	S309	CATGGATC	IDT183	TGCTTCCA	IDT087
M22	S310	CGCTGATA	IDT279	GATCCATG	IDT183
M23	S311	CTATCCAC	IDT191	TGGTACAG	IDT095
M24	S312	ATCCACGA	IDT287	GTGGATAG	IDT191
N01	S313	ACGCTTCT	IDT295	TCGTAGTC	IDT199
N02	S314	ATCATGCG	IDT007	AGAAGCGT	IDT295
N03	S315	ACACCGAT	IDT303	GATTGGAG	IDT207
N04	S316	GCTACTCT	IDT015	ATCGGTGT	IDT303
N05	S317	CAACGAGT	IDT311	CATCTACG	IDT215
N06	S318	CCAACGAA	IDT023	ACTCGTTG	IDT311
N07	S319	GCATAGTC	IDT319	GCAATTCG	IDT223
N08	S320	TACCGGAT	IDT031	GACTATGC	IDT319
N09	S321	GCATAACG	IDT327	TGGTCCTT	IDT231
N10	S322	GAAGTGCT	IDT039	CGTTATGC	IDT327
N11	S323	CGGATCAA	IDT335	CGTAGGTT	IDT239
N12	S324	ACTCGATC	IDT047	TTGATCCG	IDT335
N13	S325	TTCTCCT	IDT343	TCTGCTCT	IDT247
N14	S326	GTGGTATG	IDT055	AGGAGGAA	IDT343
N15	S327	GCAACCAT	IDT351	AGGATGGT	IDT255
N16	S328	CACACATC	IDT063	ATGGTTGC	IDT351
N17	S329	CCAGTATC	IDT359	CAGGTATC	IDT263
N18	S330	CCACATTG	IDT071	GATACTGG	IDT359
N19	S331	CTCACCAA	IDT367	CATAACGG	IDT271
N20	S332	CAATCAGG	IDT079	TTGGTGAG	IDT367
N21	S333	CAGCATAC	IDT375	TATCAGCG	IDT279
N22	S334	TGGAAGCA	IDT087	GTATGCTG	IDT375
N23	S335	TCGCTATC	IDT383	TCGTGGAT	IDT287
N24	S336	CTGTACCA	IDT095	GATAGCGA	IDT383

SINGLE CELL TCR SEQUENCING SOP V1

O01	S337	TGCTGTGA	IDT104	ACGGAACA	IDT008
O02	S338	TTACGTGC	IDT200	TCACAGCA	IDT104
O03	S339	GAGCTCTA	IDT112	ATCCAGAG	IDT016
O04	S340	TCTGGACA	IDT208	TAGAGCTC	IDT112
O05	S341	CGATTGGA	IDT120	AAGCACTG	IDT024
O06	S342	CTGTATGC	IDT216	TCCAATCG	IDT120
O07	S343	ACTGGTGT	IDT128	CGTTGCAA	IDT032
O08	S344	CAAGAAGC	IDT224	ACACCAGT	IDT128
O09	S345	TAGTCAGC	IDT136	GAAGGAAG	IDT040
O10	S346	TATGCGGT	IDT232	GCTGACTA	IDT136
O11	S347	GTTCTTCG	IDT144	ACAGCTCA	IDT048
O12	S348	CATACTCG	IDT240	CGAAGAAC	IDT144
O13	S349	TCTGTCGT	IDT152	GAAGTTGG	IDT056
O14	S350	CTTCGGTT	IDT248	ACGACAGA	IDT152
O15	S351	TGAGACGA	IDT160	GATTGCTC	IDT064
O16	S352	GAACGTGA	IDT256	TCGTCTCA	IDT160
O17	S353	AGGTCTGT	IDT168	ACTCCATC	IDT072
O18	S354	TCCTGACT	IDT264	ACAGACCT	IDT168
O19	S355	TGCTTGCT	IDT176	ATGCACGA	IDT080
O20	S356	CTAGCAGT	IDT272	AGCAAGCA	IDT176
O21	S357	ACAGAGGT	IDT184	AGAACGAG	IDT088
O22	S358	TCGTCTGA	IDT280	ACCTCTGT	IDT184
O23	S359	GATCTCAG	IDT192	ATATGCGC	IDT096
O24	S360	GAGAAGGT	IDT288	CTGAGATC	IDT192
P01	S361	GAGTAGAG	IDT296	GCACGTAA	IDT200
P02	S362	TGTTCCGT	IDT008	CTCTACTC	IDT296
P03	S363	CGTATCTC	IDT304	TGTCCAGA	IDT208
P04	S364	CTCTGGAT	IDT016	GAGATACG	IDT304
P05	S365	TGTGTCAG	IDT312	GCATACAG	IDT216
P06	S366	CAGTGCTT	IDT024	CTGACACA	IDT312
P07	S367	CTCCTGAA	IDT320	GCTTCTTG	IDT224
P08	S368	TTGCAACG	IDT032	TTCAGGAG	IDT320
P09	S369	GATCAGAC	IDT328	ACCGCATA	IDT232
P10	S370	CTTCCTTC	IDT040	GTCTGATC	IDT328
P11	S371	ACTGCACT	IDT336	CGAGTATG	IDT240
P12	S372	TGAGCTGT	IDT048	AGTGCACT	IDT336

SINGLE CELL TCR SEQUENCING SOP V1

P13	S373	CTTACAGC	IDT344	AACCGAAG	IDT248
P14	S374	CCAACTTC	IDT056	CTTACAGC	IDT344
P15	S375	AATCCAGC	IDT352	TCACGTTC	IDT256
P16	S376	GAGCAATC	IDT064	GCTGGATT	IDT352
P17	S377	CCTCGAAT	IDT360	AGTCAGGA	IDT264
P18	S378	GATGGAGT	IDT072	ATTTCGAGG	IDT360
P19	S379	CAGAACTG	IDT368	ACTGCTAG	IDT272
P20	S380	TCGTGCAT	IDT080	CAGTTCTG	IDT368
P21	S381	TACTCCAG	IDT376	TCAGACGA	IDT280
P22	S382	CTCGTTCT	IDT088	CTGGAGTA	IDT376
P23	S383	AATGGTCG	IDT384	ACCTTCTC	IDT288
P24	S384	GCGCATAT	IDT096	CGACCATT	IDT384

Table 13. | MiSeq Sample Sheet for 96-well plate, Quadrant A index primers

[Header]

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IEMFileVersion          4
Investigator
Name                   Shuqiang
Project Name           Shuqiang TCR
Experiment Name        96 scTCRseq
Date                   xx/xx/xxxx
Workflow                GenerateFASTQ
Application             FASTQ Only
Assay                   amplicon
Description
Chemistry               Amplicon

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[Reads]

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248
48

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[Settings]

[Data]

Sample_ID	Sample_Name	Sample_Plate	Sample_Well	Sample_Project	index	I7_Index_ID	index2	I5_Index_ID	GenomeFolder
A01	S1				TGATAGGC	IDT097	CTGATCGT	IDT001	
A02	S2				CCAAGTAG	IDT105	CGGCTAAT	IDT009	
A03	S3				GTCAGTCA	IDT113	GACGATCT	IDT017	
A04	S4				ACAAGCTC	IDT121	CCTTGATC	IDT025	
A05	S5				CTAACCTG	IDT129	GTGAAGTG	IDT033	
A06	S6				AACACCAC	IDT137	GTTGTTCG	IDT041	
A07	S7				ATTCCGCT	IDT145	GAGCAGTA	IDT049	

SINGLE CELL TCR SEQUENCING SOP V1

A08	S8	CTCAAGCT	IDT153	ATGACGTC	IDT057
A09	S9	CACAGGAA	IDT161	CGCTCTAT	IDT065
A10	S10	AGAAGGAC	IDT169	GTTGACCT	IDT073
A11	S11	CTCGAACA	IDT177	CGACGTTA	IDT081
A12	S12	TAAGTGGC	IDT185	GTTCTCGT	IDT089
B01	S13	CATCCAAG	IDT098	ACTCTCGA	IDT002
B02	S14	AACTGAGG	IDT106	ATCGATCG	IDT010
B03	S15	CAGTCTA	IDT114	AACTGAGC	IDT018
B04	S16	GAACCTTC	IDT122	GTCGAAGA	IDT026
B05	S17	AGCCAACT	IDT130	CATGGCTA	IDT034
B06	S18	GTAAGCAC	IDT138	CGGTTGTT	IDT042
B07	S19	AAGCTCAC	IDT146	AGTTCGTC	IDT050
B08	S20	AACCACTC	IDT154	TTGGACGT	IDT058
B09	S21	ACTCAACG	IDT162	TATCGGTC	IDT066
B10	S22	GCGTATCA	IDT170	CGTGTGTA	IDT074
B11	S23	ACATGGAG	IDT178	TACGCCTT	IDT082
B12	S24	AGTCAGGT	IDT186	TCAGGCTT	IDT090
C01	S25	GTGAGACT	IDT099	TGAGCTAG	IDT003
C02	S26	AGGTAGGA	IDT107	GCAAGATC	IDT011
C03	S27	AATCCGG	IDT115	CTTAGGAC	IDT019
C04	S28	AGCGAGAT	IDT123	ACCACGAT	IDT027
C05	S29	CCAGTTGA	IDT131	ATGCCTGT	IDT035
C06	S30	GTCCTTGA	IDT139	ACTGAGGT	IDT043
C07	S31	TGATCACG	IDT147	TTGCCAAG	IDT051
C08	S32	CTTACAGC	IDT155	AGTGGATC	IDT059
C09	S33	AAGCGACT	IDT163	AACGTCTG	IDT067
C10	S34	CAACACAG	IDT171	ACGACTTG	IDT075
C11	S35	ACAAGACG	IDT179	CCGTAAGA	IDT083
C12	S36	GCCTTAAC	IDT187	CCTTGTAG	IDT091

SINGLE CELL TCR SEQUENCING SOP V1

D01	S37	CTGATGAG	IDT100	GAGACGAT	IDT004
D02	S38	TTCGCCAT	IDT108	GCTATCCT	IDT012
D03	S39	TCTAGGAG	IDT116	GTGCCATA	IDT020
D04	S40	CCGTAACT	IDT124	GATTACCG	IDT028
D05	S41	AAGTGCAG	IDT132	CAACACCT	IDT036
D06	S42	CAGGTTCA	IDT140	TGAAGACG	IDT044
D07	S43	CAATGCGA	IDT148	ATCGCCAT	IDT052
D08	S44	AGTCTTGG	IDT156	GATAGGCT	IDT060
D09	S45	CCTACCTA	IDT164	ACGTTTCAG	IDT068
D10	S46	TCCACGTT	IDT172	CACTAGCT	IDT076
D11	S47	CGCCTTAT	IDT180	ATCACACG	IDT084
D12	S48	GTTGGCAT	IDT188	GAACATCG	IDT092
E01	S49	ACGGTACA	IDT101	CTTGTCGA	IDT005
E02	S50	CAGGTAAG	IDT109	TACGCTAC	IDT013
E03	S51	ATCCGTTG	IDT117	GAATCCGA	IDT021
E04	S52	TCAGACAC	IDT125	GCACAACCT	IDT029
E05	S53	AACCGTGT	IDT133	TGTGACTG	IDT037
E06	S54	CCAACACT	IDT141	GTTACGCA	IDT045
E07	S55	ATGCGTCA	IDT149	TGGCATGT	IDT053
E08	S56	CAGCAAT	IDT157	TGGTAGCT	IDT061
E09	S57	ATCTCCTG	IDT165	CAGTCCAA	IDT069
E10	S58	ATCGCAAC	IDT173	ACTAGGAG	IDT077
E11	S59	AGCAGACA	IDT181	CACCTGTT	IDT085
E12	S60	CAACCTCT	IDT189	TAACCGGT	IDT093
F01	S61	CTCGACTT	IDT102	TTCCAAGG	IDT006
F02	S62	GTATCGAG	IDT110	TGGACTCT	IDT014
F03	S63	GATAGCCA	IDT118	TCGCTGTT	IDT022
F04	S64	CGAAGTCA	IDT126	GCGTCATT	IDT030
F05	S65	CGCGTATT	IDT134	GTCATCGA	IDT038

SINGLE CELL TCR SEQUENCING SOP V1

F06	S66	GAGAGTAC	IDT142	AGCGTGTT	IDT046
F07	S67	TACATCGG	IDT150	CTGTTGAC	IDT054
F08	S68	AGCTTCAG	IDT158	CGCAATCT	IDT062
F09	S69	TCACGATG	IDT166	TTGCAGAC	IDT070
F10	S70	ACGTCGTT	IDT174	GTAGGAGT	IDT078
F11	S71	GTTAAGCG	IDT182	CTTCGACT	IDT086
F12	S72	TGGATGGT	IDT190	AACCGTTC	IDT094
G01	S73	ACAACGTG	IDT103	CGCATGAT	IDT007
G02	S74	TTCACGGA	IDT111	AGAGTAGC	IDT015
G03	S75	TATGACCG	IDT119	TTCGTTGG	IDT023
G04	S76	GTGATCCA	IDT127	ATCCGGTA	IDT031
G05	S77	AGTTCGCA	IDT135	AGCACTTC	IDT039
G06	S78	AGATACGG	IDT143	GATCGAGT	IDT047
G07	S79	ACTGCGAA	IDT151	CATACCAC	IDT055
G08	S80	CCTCGTTA	IDT159	GATGTGTG	IDT063
G09	S81	CCACAACA	IDT167	CAATGTGG	IDT071
G10	S82	CGAATACG	IDT175	CCTGATTG	IDT079
G11	S83	CATGGATC	IDT183	TGCTTCCA	IDT087
G12	S84	CTATCCAC	IDT191	TGGTACAG	IDT095
H01	S85	TGCTGTGA	IDT104	ACGGAACA	IDT008
H02	S86	GAGCTCTA	IDT112	ATCCAGAG	IDT016
H03	S87	CGATTGGA	IDT120	AAGCACTG	IDT024
H04	S88	ACTGGTGT	IDT128	CGTTGCAA	IDT032
H05	S89	TAGTCAGC	IDT136	GAAGGAAG	IDT040
H06	S90	GTTCTTCG	IDT144	ACAGCTCA	IDT048
H07	S91	TCTGTCGT	IDT152	GAAGTTGG	IDT056
H08	S92	TGAGACGA	IDT160	GATTGCTC	IDT064
H09	S93	AGGTCTGT	IDT168	ACTCCATC	IDT072
H10	S94	TGCTTGCT	IDT176	ATGCACGA	IDT080

SINGLE CELL TCR SEQUENCING SOP V1

H11	S95	ACAGAGGT	IDT184	AGAACGAG	IDT088
H12	S96	GATCTCAG	IDT192	ATATGCGC	IDT096

Table 14. | MiSeq Sample Sheet for 96-well plate, Quadrant B index primers

[Header]

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IEMFileVersion          4
Investigator
Name                   Shuqiang
Project Name           Shuqiang TCR
Experiment Name         96 scTCRseq
Date                   xx/xx/xxxx
Workflow                GenerateFASTQ
Application             FASTQ Only
Assay                  amplicon
Description
Chemistry              Amplicon

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[Reads]

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248
48

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[Settings]

[Data]

Sample_ID	Sample_Name	Sample_Plate	Sample_Well	Sample_Project	index	I7_Index_ID	index2	I5_Index_ID	GenomeFolder
A01	S1				GAACGAAG	IDT193	GCCTATCA	IDT097	
A02	S2				ACTGCTTG	IDT201	CTACTTGG	IDT105	
A03	S3				AACACTGG	IDT209	TGACTGAC	IDT113	
A04	S4				GTTGCTGT	IDT217	GAGCTTGT	IDT121	
A05	S5				CACCAGTT	IDT225	CAGGTTAG	IDT129	
A06	S6				AAGGAAGG	IDT233	GTGGTGTT	IDT137	
A07	S7				TGCACTTG	IDT241	AGCGGAAT	IDT145	

SINGLE CELL TCR SEQUENCING SOP V1

A08	S8	ACAACAGC	IDT249	AGCTTGAG	IDT153
A09	S9	TAGAACGC	IDT257	TTCCTGTG	IDT161
A10	S10	TCAGCCTT	IDT265	GTCCTTCT	IDT169
A11	S11	GCCAGAAT	IDT273	TGTTGAG	IDT177
A12	S12	CACATGGT	IDT281	GCCACTTA	IDT185
B01	S13	ACCTAGAC	IDT194	CTTGGATG	IDT098
B02	S14	GCCTATGT	IDT202	CCTCAGTT	IDT106
B03	S15	TTGGTGCA	IDT210	TAGACGTG	IDT114
B04	S16	AGAACCAG	IDT218	GAAGGTT	IDT122
B05	S17	GTATTCCG	IDT226	AGTTGGCT	IDT130
B06	S18	AGCGTGTA	IDT234	GTGCTTAC	IDT138
B07	S19	TCACTCGA	IDT242	GTGAGCTT	IDT146
B08	S20	AGCCGTAA	IDT250	GAGTGGTT	IDT154
B09	S21	AACCAGAG	IDT258	CGTTGAGT	IDT162
B10	S22	AAGCATCG	IDT266	TGATACGC	IDT170
B11	S23	CGAGAGAA	IDT274	CTCCAIGT	IDT178
B12	S24	CGAGTTAG	IDT282	ACCTGACT	IDT186
C01	S25	TACGACGT	IDT195	AGTCTCAC	IDT099
C02	S26	GTACCACA	IDT203	TCCTACCT	IDT107
C03	S27	CCTGTCAA	IDT211	CCGGAATT	IDT115
C04	S28	GATGTCGA	IDT219	ATCTCGCT	IDT123
C05	S29	TTCGAAGC	IDT227	TCAACTGG	IDT131
C06	S30	TCTACGCA	IDT235	TCAAGGAC	IDT139
C07	S31	CACTGTAG	IDT243	CGTGATCA	IDT147
C08	S32	CTCTTGTC	IDT251	GCTGTAAG	IDT155
C09	S33	CGACCTAA	IDT259	AGTCGCTT	IDT163
C10	S34	GCCAATAC	IDT267	CTGTGTTG	IDT171
C11	S35	AACTCGGA	IDT275	CGTCTTGT	IDT179
C12	S36	AGCTAAGC	IDT283	GTTAAGGC	IDT187

SINGLE CELL TCR SEQUENCING SOP V1

D01	S37	TTGAGCTC	IDT196	CTCATCAG	IDT100
D02	S38	TAGTGGTG	IDT204	ATGGCGAA	IDT108
D03	S39	CTATGCCT	IDT212	CTCCTAGA	IDT116
D04	S40	AGGAGGTT	IDT220	AGTTACGG	IDT124
D05	S41	AGACCTTG	IDT228	CTGCACTT	IDT132
D06	S42	TGGCTCTT	IDT236	TGAACCTG	IDT140
D07	S43	GTACGATC	IDT244	TCGCATTG	IDT148
D08	S44	CAGATCCT	IDT252	CCAAGACT	IDT156
D09	S45	CTCTCAGA	IDT260	TAGGTAGG	IDT164
D10	S46	GACACAGT	IDT268	AACGTGGA	IDT172
D11	S47	ACAGTTCG	IDT276	ATAAGGCG	IDT180
D12	S48	GTTCCATG	IDT284	ATGCCAAC	IDT188
E01	S49	AGTACACG	IDT197	TGTACCGT	IDT101
E02	S50	ATACGCAG	IDT205	CTTACCTG	IDT109
E03	S51	TTCGGCTA	IDT213	CAACGGAT	IDT117
E04	S52	AATCGCTG	IDT221	GTGTCTGA	IDT125
E05	S53	CCAAGGTT	IDT229	ACACGGTT	IDT133
E06	S54	CCTTCCAT	IDT237	AGTGTGG	IDT141
E07	S55	TGGTGAAG	IDT245	TGACGCAT	IDT149
E08	S56	GATGCTAC	IDT253	ATTGCGTG	IDT157
E09	S57	AGGCTGAA	IDT261	CAGGAGAT	IDT165
E10	S58	AAGAGGCA	IDT269	GTTGCGAT	IDT173
E11	S59	TGACCGTT	IDT277	TGTCTGCT	IDT181
E12	S60	GCATCCTA	IDT285	AGAGGTTG	IDT189
F01	S61	TGTCAGTG	IDT198	AAGTCGAG	IDT102
F02	S62	AAGACCGT	IDT206	CTCGATAC	IDT110
F03	S63	ACCGACAA	IDT214	TGGCTATC	IDT118
F04	S64	AGTGACCT	IDT222	TGACTTCG	IDT126
F05	S65	ACGTATGG	IDT230	AATACGCG	IDT134

SINGLE CELL TCR SEQUENCING SOP V1

F06	S66	ATACTGGC	IDT238	GTACTCTC	IDT142
F07	S67	TAGCTGAG	IDT246	CCGATGTA	IDT150
F08	S68	AGGAACAC	IDT254	CTGAAGCT	IDT158
F09	S69	ATCGGAGA	IDT262	CATCGTGA	IDT166
F10	S70	GAAGACTG	IDT270	AACGACGT	IDT174
F11	S71	CATCTGCT	IDT278	CGCTTAAC	IDT182
F12	S72	CCATGAAC	IDT286	ACCATCCA	IDT190
G01	S73	GACTACGA	IDT199	CACGTTGT	IDT103
G02	S74	CTCCAATC	IDT207	TCCGTGAA	IDT111
G03	S75	CGTAGATG	IDT215	CGGTCATA	IDT119
G04	S76	CGAATTGC	IDT223	TGGATCAC	IDT127
G05	S77	AAGGACCA	IDT231	TGCGAACT	IDT135
G06	S78	AACCTACG	IDT239	CCGTATCT	IDT143
G07	S79	AGAGCAGA	IDT247	TTCGCAGT	IDT151
G08	S80	ACCATCCT	IDT255	TAACGAGG	IDT159
G09	S81	GATACCTG	IDT263	TGTTGTGG	IDT167
G10	S82	CCGTTATG	IDT271	CGTATTCG	IDT175
G11	S83	CGCTGATA	IDT279	GATCCATG	IDT183
G12	S84	ATCCACGA	IDT287	GTGGATAG	IDT191
H01	S85	TTACGTGC	IDT200	TCACAGCA	IDT104
H02	S86	TCTGGACA	IDT208	TAGAGCTC	IDT112
H03	S87	CTGTATGC	IDT216	TCCAATCG	IDT120
H04	S88	CAAGAAGC	IDT224	ACACCAGT	IDT128
H05	S89	TATGCGGT	IDT232	GCTGACTA	IDT136
H06	S90	CATACTCG	IDT240	CGAAGAAC	IDT144
H07	S91	CTTCGGTT	IDT248	ACGACAGA	IDT152
H08	S92	GAACGTGA	IDT256	TCGTCTCA	IDT160
H09	S93	TCCTGACT	IDT264	ACAGACCT	IDT168
H10	S94	CTAGCAGT	IDT272	AGCAAGCA	IDT176

SINGLE CELL TCR SEQUENCING SOP V1

H11	S95	TCGTCTGA	IDT280	ACCTCTGT	IDT184
H12	S96	GAGAAGGT	IDT288	CTGAGATC	IDT192

Table 15. | MiSeq Sample Sheet for 96-well plate, Quadrant C index primers

[Header]

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IEMFileVersion          4
Investigator
Name                   Shuqiang
Project Name           Shuqiang TCR
Experiment Name        96 scTCRseq
Date                   xx/xx/xxxx
Workflow                GenerateFASTQ
Application             FASTQ Only
Assay                   amplicon
Description
Chemistry               Amplicon
    
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[Reads]

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248
48
    
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[Settings]

[Data]

Sample_ID	Sample_Name	Sample_Plate	Sample_Well	Sample_Project	index	I7_Index_ID	index2	I5_Index_ID	GenomeFolder
A01	S1				AGGCAATG	IDT289	CTTCGTTC	IDT193	
A02	S2				ATGCCTAG	IDT297	CAAGCAGT	IDT201	
A03	S3				AAGGAGAC	IDT305	CCAGTGTT	IDT209	
A04	S4				CTAGGTTG	IDT313	ACAGCAAC	IDT217	
A05	S5				AAGCACA	IDT321	AACTGGTG	IDT225	
A06	S6				CGCAACTA	IDT329	CCTTCCTT	IDT233	
A07	S7				CCTAAGTC	IDT337	CAAGTGCA	IDT241	

SINGLE CELL TCR SEQUENCING SOP V1

A08	S8	GACATCTC	IDT345	GCTGTTGT	IDT249
A09	S9	AGTGCATC	IDT353	GCGTTCTA	IDT257
A10	S10	CAACTGAC	IDT361	AAGGCTGA	IDT265
A11	S11	AGAAGCCT	IDT369	ATTCTGGC	IDT273
A12	S12	GAGGCATT	IDT377	ACCATGTG	IDT281
B01	S13	TCACCTAG	IDT290	GTCTAGGT	IDT194
B02	S14	CAACTCCA	IDT298	ACATAGGC	IDT202
B03	S15	TGTGACT	IDT306	TGCACCAA	IDT210
B04	S16	GTGTCCTT	IDT314	CTGGTCT	IDT218
B05	S17	TAGTCTCG	IDT322	CGGAATAC	IDT226
B06	S18	TCCGATCA	IDT330	TACACGCT	IDT234
B07	S19	TTCGTACG	IDT338	TCGAGTGA	IDT242
B08	S20	CAACCGTA	IDT346	TTACGGCT	IDT250
B09	S21	GCATTGGT	IDT354	CTCTGGTT	IDT258
B10	S22	TGCTCTAC	IDT362	CGATGCTT	IDT266
B11	S23	CACGATTC	IDT370	TTCTCTCG	IDT274
B12	S24	ACACCTCA	IDT378	CTAACTCG	IDT282
C01	S25	CATACGGA	IDT291	ACGTCGTA	IDT195
C02	S26	AAGTCCTC	IDT299	TGTGGTAC	IDT203
C03	S27	TCAATCCG	IDT307	TTGACAGG	IDT211
C04	S28	TACCTGCA	IDT315	TCGACATC	IDT219
C05	S29	ACTCTGAG	IDT323	GCTTCGAA	IDT227
C06	S30	CAACTTGG	IDT331	TGCGTAGA	IDT235
C07	S31	TCCTGGTA	IDT339	CTACAGTG	IDT243
C08	S32	TGCGATAG	IDT347	GACAAGAG	IDT251
C09	S33	CTTAGGAC	IDT355	TTAGGTCG	IDT259
C10	S34	CATCACGT	IDT363	GTATTGGC	IDT267
C11	S35	AAGCTGGT	IDT371	TCCGAGTT	IDT275
C12	S36	CGCAATGT	IDT379	GCTTAGCT	IDT283

SINGLE CELL TCR SEQUENCING SOP V1

D01	S37	GTCATCGT	IDT292	GAGCTCAA	IDT196
D02	S38	GTCGATTG	IDT300	CACCACTA	IDT204
D03	S39	GACTTGTTG	IDT308	AGGCATAG	IDT212
D04	S40	CCTTAGGT	IDT316	AACCTCCT	IDT220
D05	S41	GTTATGGC	IDT324	CAAGGTCT	IDT228
D06	S42	TCAGTAGG	IDT332	AAGAGCCA	IDT236
D07	S43	CATTGACG	IDT340	GATCGTAC	IDT244
D08	S44	TGGTTCGA	IDT348	AGGATCTG	IDT252
D09	S45	ATAGTCGG	IDT356	TCTGAGAG	IDT260
D10	S46	GCCACTTA	IDT364	ACTGTGTC	IDT268
D11	S47	GCAATGAG	IDT372	CGAACTGT	IDT276
D12	S48	CCTAGAGA	IDT380	CATGGAAC	IDT284
E01	S49	TTACCGAC	IDT293	CGTGTACT	IDT197
E02	S50	GCGTTAGA	IDT301	CTGCGTAT	IDT205
E03	S51	CCGATGTA	IDT309	TAGCCGAA	IDT213
E04	S52	CACAGACT	IDT317	CAGCGATT	IDT221
E05	S53	CTCGGTAA	IDT325	AACCTTGG	IDT229
E06	S54	ACAGCAAG	IDT333	ATGGAAGG	IDT237
E07	S55	ACCTCTTC	IDT341	CTTCACCA	IDT245
E08	S56	AAGCGTTC	IDT349	GTAGCATC	IDT253
E09	S57	GAGACCAA	IDT357	TTCAGCCT	IDT261
E10	S58	GCTTCACA	IDT365	TGCCTCTT	IDT269
E11	S59	CTCTATCG	IDT373	AACGGTCA	IDT277
E12	S60	TACTAGCG	IDT381	TAGGATGC	IDT285
F01	S61	ACCTTCGA	IDT294	CACTGACA	IDT198
F02	S62	TTGCGAGA	IDT302	ACGGTCTT	IDT206
F03	S63	TAGGAGCT	IDT310	TTGTCGGT	IDT214
F04	S64	TCGAACCT	IDT318	AGGTCACT	IDT222
F05	S65	TACAGAGC	IDT326	CCATACGT	IDT230

SINGLE CELL TCR SEQUENCING SOP V1

F06	S66	GAATGGCA	IDT334	GCCAGTAT	IDT238
F07	S67	CATTCGTC	IDT342	CTCAGCTA	IDT246
F08	S68	CGATTCTG	IDT350	GTGTTCCCT	IDT254
F09	S69	AACAAGGC	IDT358	TCTCCGAT	IDT262
F10	S70	ACCGAATG	IDT366	CAGTCTTC	IDT270
F11	S71	ACTCTCCA	IDT374	AGCAGATG	IDT278
F12	S72	CGTCCATT	IDT382	GTTCAATGG	IDT286
G01	S73	ACGCTTCT	IDT295	TCGTAGTC	IDT199
G02	S74	ACACCGAT	IDT303	GATTGGAG	IDT207
G03	S75	CAACGAGT	IDT311	CATCTACG	IDT215
G04	S76	GCATAGTC	IDT319	GCAATTCG	IDT223
G05	S77	GCATAACG	IDT327	TGGTCCTT	IDT231
G06	S78	CGGATCAA	IDT335	CGTAGGTT	IDT239
G07	S79	TTCCTCCT	IDT343	TCTGCTCT	IDT247
G08	S80	GCAACCAT	IDT351	AGGATGGT	IDT255
G09	S81	CCAGTATC	IDT359	CAGGTATC	IDT263
G10	S82	CTCACCAA	IDT367	CATAACGG	IDT271
G11	S83	CAGCATAAC	IDT375	TATCAGCG	IDT279
G12	S84	TCGCTATC	IDT383	TCGTGGAT	IDT287
H01	S85	GAGTAGAG	IDT296	GCACGTAA	IDT200
H02	S86	CGTATCTC	IDT304	TGTCCAGA	IDT208
H03	S87	TGTGTCAG	IDT312	GCATACAG	IDT216
H04	S88	CTCCTGAA	IDT320	GCTTCTTG	IDT224
H05	S89	GATCAGAC	IDT328	ACCGCATA	IDT232
H06	S90	ACTGCACT	IDT336	CGAGTATG	IDT240
H07	S91	CTTACAGC	IDT344	AACCGAAG	IDT248
H08	S92	AATCCAGC	IDT352	TCACGTTC	IDT256
H09	S93	CCTCGAAT	IDT360	AGTCAGGA	IDT264
H10	S94	CAGAACTG	IDT368	ACTGCTAG	IDT272

SINGLE CELL TCR SEQUENCING SOP V1

H11	S95	TACTCCAG	IDT376	TCAGACGA	IDT280
H12	S96	AATGGTCG	IDT384	ACCTTCTC	IDT288

Table 16. | MiSeq Sample Sheet for 96-well plate, Quadrant D index primers

[Header]

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IEMFileVersion          4
Investigator
Name                   Shuqiang
Project Name           Shuqiang TCR
Experiment Name        96 scTCRseq
Date                   xx/xx/xxxx
Workflow                GenerateFASTQ
Application             FASTQ Only
Assay                   amplicon
Description
Chemistry               Amplicon

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[Reads]

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248
48

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[Settings]

[Data]

Sample_ID	Sample_Name	Sample_Plate	Sample_Well	Sample_Project	index	I7_Index_ID	index2	I5_Index_ID	GenomeFolder
A01	S1				ACGATCAG	IDT001	CATTGCCT	IDT289	
A02	S2				ATTAGCCG	IDT009	CTAGGCAT	IDT297	
A03	S3				AGATCGTC	IDT017	GTCTCCTT	IDT305	
A04	S4				GATCAAGG	IDT025	CAACCTAG	IDT313	
A05	S5				CACTTCAC	IDT033	TGTGCGTT	IDT321	
A06	S6				CGAACAAC	IDT041	TAGTTGCG	IDT329	
A07	S7				TACTGCTC	IDT049	GACTTAGG	IDT337	

SINGLE CELL TCR SEQUENCING SOP V1

A08	S8	GACGTCAT	IDT057	GAGATGTC	IDT345
A09	S9	ATAGAGCG	IDT065	GATGCACT	IDT353
A10	S10	AGGTCAAC	IDT073	GTCAGTTG	IDT361
A11	S11	TAACGTCG	IDT081	AGGCTTCT	IDT369
A12	S12	ACGAGAAC	IDT089	AATGCCTC	IDT377
B01	S13	TCGAGAGT	IDT002	CTAGGTGA	IDT290
B02	S14	CGATCGAT	IDT010	TGGAGTTG	IDT298
B03	S15	GCTCAGTT	IDT018	AGTCGACA	IDT306
B04	S16	TCTTCGAC	IDT026	AAGGACAC	IDT314
B05	S17	TAGCCATG	IDT034	CGAGACTA	IDT322
B06	S18	AACAACCG	IDT042	TGATCGGA	IDT330
B07	S19	GACGAACT	IDT050	CGTACGAA	IDT338
B08	S20	ACGTCCAA	IDT058	TACGGTTG	IDT346
B09	S21	GACCGATA	IDT066	ACCAATGC	IDT354
B10	S22	TACACACG	IDT074	GTAGAGCA	IDT362
B11	S23	AAGGCGTA	IDT082	GAATCGTG	IDT370
B12	S24	AAGCCTGA	IDT090	TGAGGTGT	IDT378
C01	S25	CTAGCTCA	IDT003	TCCGTATG	IDT291
C02	S26	GATCTTGC	IDT011	GAGGACTT	IDT299
C03	S27	GTCCTAAG	IDT019	CGGATTGA	IDT307
C04	S28	ATCGTGGT	IDT027	TGCAGGTA	IDT315
C05	S29	ACAGGCAT	IDT035	CTCAGAGT	IDT323
C06	S30	ACCTCAGT	IDT043	CCAAGTTG	IDT331
C07	S31	CTTCGCAA	IDT051	TACCAGGA	IDT339
C08	S32	GATCCACT	IDT059	CTATCGCA	IDT347
C09	S33	CAGACGTT	IDT067	GTCCTAAG	IDT355
C10	S34	CAAGTCGT	IDT075	ACGTGATG	IDT363
C11	S35	TCTTACGG	IDT083	ACCAGCTT	IDT371
C12	S36	CTACAAGG	IDT091	ACATTGCG	IDT379

SINGLE CELL TCR SEQUENCING SOP V1

D01	S37	ATCGTCTC	IDT004	ACGATGAC	IDT292
D02	S38	AGGATAGC	IDT012	CAATCGAC	IDT300
D03	S39	TATGGCAC	IDT020	CACAAGTC	IDT308
D04	S40	CGGTAATC	IDT028	ACCTAAGG	IDT316
D05	S41	AGGTGTTG	IDT036	GCCATAAC	IDT324
D06	S42	CGTCTTCA	IDT044	CCTACTGA	IDT332
D07	S43	ATGGCGAT	IDT052	CGTCAATG	IDT340
D08	S44	AGCCTATC	IDT060	TCGAACCA	IDT348
D09	S45	CTGAACGT	IDT068	CCGACTAT	IDT356
D10	S46	AGCTAGTG	IDT076	TAAGTGGC	IDT364
D11	S47	CGTGTGAT	IDT084	CTCATTGC	IDT372
D12	S48	CGATGTTC	IDT092	TCTCTAGG	IDT380
E01	S49	TCGACAAG	IDT005	GTCGGTAA	IDT293
E02	S50	GTAGCGTA	IDT013	TCTAACGC	IDT301
E03	S51	TCGGATTC	IDT021	TACATCGG	IDT309
E04	S52	AGTTGTGC	IDT029	AGTCTGTG	IDT317
E05	S53	CAGTCACA	IDT037	TTACCGAG	IDT325
E06	S54	TGCGTAAC	IDT045	CTTGCTGT	IDT333
E07	S55	ACATGCCA	IDT053	GAAGAGGT	IDT341
E08	S56	AGCTACCA	IDT061	GAACGCTT	IDT349
E09	S57	TTGGACTG	IDT069	TTGGTCTC	IDT357
E10	S58	CTCCTAGT	IDT077	TGTGAAGC	IDT365
E11	S59	AACAGGTG	IDT085	CGATAGAG	IDT373
E12	S60	ACCGGTTA	IDT093	CGCTAGTA	IDT381
F01	S61	CCTTGAA	IDT006	TCGAAGGT	IDT294
F02	S62	AGAGTCCA	IDT014	TCTCGCAA	IDT302
F03	S63	AACAGCGA	IDT022	AGCTCCTA	IDT310
F04	S64	AATGACGC	IDT030	AGGTTCGA	IDT318
F05	S65	TCGATGAC	IDT038	GCTCTGTA	IDT326

SINGLE CELL TCR SEQUENCING SOP V1

F06	S66	AACACGCT	IDT046	TGCCATTC	IDT334
F07	S67	GTCAACAG	IDT054	GACGAATG	IDT342
F08	S68	AGATTGCG	IDT062	CAGAATCG	IDT350
F09	S69	GTCTGCAA	IDT070	GCCTTGTT	IDT358
F10	S70	ACTCCTAC	IDT078	CATTCGGT	IDT366
F11	S71	AGTCGAAG	IDT086	TGGAGAGT	IDT374
F12	S72	GAACGGTT	IDT094	AATGGACG	IDT382
G01	S73	ATCATGCG	IDT007	AGAAGCGT	IDT295
G02	S74	GCTACTCT	IDT015	ATCGGTGT	IDT303
G03	S75	CCAACGAA	IDT023	ACTCGTTG	IDT311
G04	S76	TACCGGAT	IDT031	GACTATGC	IDT319
G05	S77	GAAGTGCT	IDT039	CGTTATGC	IDT327
G06	S78	ACTCGATC	IDT047	TTGATCCG	IDT335
G07	S79	GTGGTATG	IDT055	AGGAGGAA	IDT343
G08	S80	CACACATC	IDT063	ATGGTTGC	IDT351
G09	S81	CCACATTG	IDT071	GATACTGG	IDT359
G10	S82	CAATCAGG	IDT079	TTGGTGAG	IDT367
G11	S83	TGGAAGCA	IDT087	GTATGCTG	IDT375
G12	S84	CTGTACCA	IDT095	GATAGCGA	IDT383
H01	S85	TGTTCCGT	IDT008	CTCTACTC	IDT296
H02	S86	CTCTGGAT	IDT016	GAGATACG	IDT304
H03	S87	CAGTGCTT	IDT024	CTGACACA	IDT312
H04	S88	TTGCAACG	IDT032	TTCAGGAG	IDT320
H05	S89	CTTCCTTC	IDT040	GTCTGATC	IDT328
H06	S90	TGAGCTGT	IDT048	AGTGCAGT	IDT336
H07	S91	CCAACTTC	IDT056	CTTACAGC	IDT344
H08	S92	GAGCAATC	IDT064	GCTGGATT	IDT352
H09	S93	GATGGAGT	IDT072	ATTCGAGG	IDT360
H10	S94	TCGTGCAT	IDT080	CAGTTCTG	IDT368

SINGLE CELL TCR SEQUENCING SOP V1

H11	S95	CTCGTTCT	IDT088	CTGGAGTA	IDT376
H12	S96	GCGCATAT	IDT096	CGACCATT	IDT384