Standard Operating Procedure for Single Cell TCR Sequencing (sc-rhTCRseq[1])

12 December 2019

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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 $MgCl_2$ (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 µM (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-µL 8-channel pipette (Pipet-Lite Multi Pipette L8-20XLS+, Rainin, cat. no. 17013803)
- 200-µL 8-channel pipette (Pipet-Lite Multi Pipette L8-200XLS+, Rainin, cat. no. 17013805)
- 2-µL pipette (Pipet-Lite LTS Pipette L-2XLS+, Rainin, cat. no. 17014393)
- 20-µL pipette (Pipet-Lite LTS Pipette L-20XLS+, Rainin, cat. no. 17014392)
- 200-µL pipette (Pipet-Lite LTS Pipette L-200XLS+, Rainin, cat. no. 17014391)
- 1000-µL pipette (Pipet-Lite LTS Pipette L-1000XLS+, Rainin, cat. no. 17014382)
- 20-µL pipette tips (RT-LTS-A-10µL-/F/L-960/10, Rainin, cat. no. 30389226)
- 200-µL pipette tips (RT-LTS-A-200µL-/F/L-960/10, Rainin, cat. no. 30389240)
- 1000-µL pipette tips (RT-LTS-A-1000µL-/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-µL pipette tips (Sterile Non-Filtered Extra Long Pipet Tip, Thomas Scientific, cat. no. 1158U40). For use as reservoir on Mantis liquid dispenser.
- 1000-µL pipette (PIPETMAN Classic P1000, Gilson, cat. no. F123602). Required for using the 1250-µL 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

- BLAST[2] version NCBI-BLAST-2.2.30+ (ftp://ftp.ncbi.nlm.nih.gov/blast/executables/blast+/2.2.30/)
- MiXCR[3] 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 µL DMSO, dispense 20 µL 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 µM. 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 µM each primer were made by mixing 3 µL 200 µM P5 barcode primer, 3 µL 200 µM P7 barcode primer, and 94 µL 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 µM each by mixing 5 µL 500 µM each primer with 155 µL 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 µM each prepared by mixing 5 µL 500 µM each primer with 490 µL 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 µL 1 N NaOH with 16 µL 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× 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 µL 800 units/mL Proteinase K with 45 µL 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×)	12	20.8	0.5×

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 µL of PCR mix to each of the wells if using a 384-well plate, or 16 µL per well for a 96-well plate, using a 1250-µL 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 µL of ProNex beads to each of the wells if using a 384-well plate, or 21 µL per well for a 96-well plate, using a 1250-µL 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 µL of Promega Wash Buffer to each of the wells if using a 384-well plate, or 100 µL 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 µL Promega Elution Buffer to each well, using a 1250-µL 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 µL 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-µL 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/µL by combining 1.5 µL of each library with the appropriate volume of TE in wells of a fresh plate. If concentration is less than 0.2 ng/µL, combine 1.5 µL of library with 0.6 µL 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 µL (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 µL 6 µM 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/µL by mixing 1 µL 2 units/µL RNase H2 Enzyme with 99 µL 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 (µL)	Volume for 384-well plate with overage (µL)	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 µM each)	7.2	24.6	50 nM each
Rd2.AC.x1 / Rd2.BC.x1 primer mix (5 µM each)	7.2	24.6	50 nM each
RNase H2 (20 mU/µL)	18	61.5	0.5 mU/µL
Hot Start Taq DNA Polymerase (5 units/µL)	28.8	98.4	0.2 units/µL
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 µL 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 µL 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-µL pooled sample for a 96-well plate and a 768-µL 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 fom 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 µL 4 nM library, 0.5 µL PhiX spike-in, and 5 µL freshly prepared 0.2 N NaOH, then incubate at room temperature for 5 min.
66 Add 990 µL 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 µL 20 pM library with 600 µL Hyb Buffer.
68 Load 600 µL 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

Table 3. | Plate P5.1

Well Position	Name	Sequence
A01	P5.IDT001.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGATCGTACACTCTTTCCCTACrACGACa/3SpC3/
B01	P5.IDT002.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTCTCGAACACTCTTTCCCTACrACGACa/3SpC3/
C01	P5.IDT003.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGAGCTAGACACTCTTTCCCTACrACGACa/3SpC3/
D01	P5.IDT004.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGACGATACACTCTTTCCCTACrACGACa/3SpC3/
E01	P5.IDT005.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTGTCGAACACTCTTTCCCTACrACGACa/3SpC3/
F01	P5.IDT006.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCCAAGGACACTCTTTCCCTACrACGACa/3SpC3/
G01	P5.IDT007.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGCATGATACACTCTTTCCCTACrACGACa/3SpC3/
H01	P5.IDT008.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGGAACAACACTCTTTCCCTACrACGACa/3SpC3/
A02	P5.IDT009.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGGCTAATACACTCTTTCCCTACrACGACa/3SpC3/
B02	P5.IDT010.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCGATCGACACTCTTTCCCTACrACGACa/3SpC3/
C02	P5.IDT011.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCAAGATCACACTCTTTCCCTACrACGACa/3SpC3/
D02	P5.IDT012.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTATCCTACACTCTTTCCCTACrACGACa/3SpC3/
E02	P5.IDT013.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACGCTACACACTCTTTCCCTACrACGACa/3SpC3/
F02	P5.IDT014.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGACTCTACACTCTTTCCCTACrACGACa/3SpC3/
G02	P5.IDT015.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGAGTAGCACACTCTTTCCCTACrACGACa/3SpC3/
H02	P5.IDT016.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCCAGAGACACTCTTTCCCTACrACGACa/3SpC3/
A03	P5.IDT017.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACGATCTACACTCTTTCCCTACrACGACa/3SpC3/
B03	P5.IDT018.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACTGAGCACACTCTTTCCCTACrACGACa/3SpC3/
C03	P5.IDT019.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTAGGACACACTCTTTCCCTACrACGACa/3SpC3/
D03	P5.IDT020.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGCCATAACACTCTTTCCCTACrACGACa/3SpC3/
E03	P5.IDT021.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAATCCGAACACTCTTTCCCTACrACGACa/3SpC3/
F03	P5.IDT022.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGCTGTTACACTCTTTCCCTACrACGACa/3SpC3/
G03	P5.IDT023.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCGTTGGACACTCTTTCCCTACrACGACa/3SpC3/
H03	P5.IDT024.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAAGCACTGACACTCTTTCCCTACrACGACa/3SpC3/

A04	P5.IDT025.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTTGATCACACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT026.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCGAAGAACACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT027.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCACGATACACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT028.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATTACCGACACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT029.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCACAACTACACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT030.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCGTCATTACACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT031.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCCGGTAACACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT032.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTTGCAAACACTCTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT033.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGAAGTGACACTCTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT034.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATGGCTAACACTCTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT035.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGCCTGTACACTCTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT036.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAACACCTACACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT037.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTGACTGACACTCTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT038.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCATCGAACACTCTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT039.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCACTTCACACTCTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT040.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAAGGAAGACACTCTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT041.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTGTTCGACACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT042.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGGTTGTTACACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT043.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTGAGGTACACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT044.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGAAGACGACACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT045.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTACGCAACACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT046.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCGTGTTACACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT047.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATCGAGTACACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT048.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACAGCTCAACACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT049.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGCAGTAACACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT050.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTTCGTCACACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT051.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGCGAAGACACTCTTTCCCTACrACGACa/3SpC3/

D07	P5.IDT052.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**ATCGCCAT**ACACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT053.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**TGGCATGT**ACACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT054.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CTGTTGAC**ACACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT055.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CATACCAC**ACACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT056.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**GAAGTTGG**ACACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT057.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**ATGACGTC**ACACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT058.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**TTGGACGT**ACACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT059.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**AGTGGATC**ACACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT060.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**GATAGGCT**ACACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT061.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**TGGTAGCT**ACACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT062.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CGCAATCT**ACACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT063.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**GATGTGTG**ACACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT064.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**GATTGCTC**ACACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT065.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CGCTCTAT**ACACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT066.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**TATCGGTC**ACACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT067.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**AACGTCTG**ACACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT068.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**ACGTTCAG**ACACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT069.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CAGTCCAA**ACACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT070.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**TTGCAGAC**ACACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT071.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CAATGTGG**ACACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT072.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**ACTCCATC**ACACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT073.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**GTTGACCT**ACACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT074.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CGTGTGTA**ACACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT075.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**ACGACTTG**ACACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT076.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**CACTAGCT**ACACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT077.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**ACTAGGAG**ACACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT078.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACAC**GTAGGAGT**ACACTCTTTCCCTACrACGACa/3SpC3/

G10	P5.IDT079.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTGATTGACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACATCACACGACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACAGAACGAGACACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT089.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTCTCGTACACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT090.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCAGGCTTACACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT091.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTTGTAGACACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT092.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAACATCGACACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT093.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAACCGGTACACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT094.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACCGTTCACACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT095.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGTACAGACACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT096.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATATGCGCACACTCTTTCCCTACrACGACa/3SpC3/

Table 4. | Plate P5.2

Well Position	Name	Sequence
A01	P5.IDT097.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCCTATCAACACTCTTTCCCTACrACGACa/3SpC3/
B01	P5.IDT098.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTGGATGACACTCTTTCCCTACrACGACa/3SpC3/
C01	P5.IDT099.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTCTCACACACTCTTTCCCTACrACGACa/3SpC3/
D01	P5.IDT100.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCATCAGACACTCTTTCCCTACrACGACa/3SpC3/
E01	P5.IDT101.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTACCGTACACTCTTTCCCTACrACGACa/3SpC3/
F01	P5.IDT102.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAAGTCGAGACACTCTTTCCCTACrACGACa/3SpC3/
G01	P5.IDT103.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCACGTTGTACACTCTTTCCCTACrACGACa/3SpC3/
H01	P5.IDT104.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCACAGCAACACTCTTTCCCTACrACGACa/3SpC3/
A02	P5.IDT105.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTACTTGGACACTCTTTCCCTACrACGACa/3SpC3/
B02	P5.IDT106.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTCAGTTACACTCTTTCCCTACrACGACa/3SpC3/
C02	P5.IDT107.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCCTACCTACACTCTTTCCCTACrACGACa/3SpC3/
D02	P5.IDT108.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGGCGAAACACTCTTTCCCTACrACGACa/3SpC3/
E02	P5.IDT109.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTACCTGACACTCTTTCCCTACrACGACa/3SpC3/
F02	P5.IDT110.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCGATACACACTCTTTCCCTACrACGACa/3SpC3/
G02	P5.IDT111.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCCGTGAAACACTCTTTCCCTACrACGACa/3SpC3/
H02	P5.IDT112.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAGAGCTCACACTCTTTCCCTACrACGACa/3SpC3/
A03	P5.IDT113.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGACTGACACACTCTTTCCCTACrACGACa/3SpC3/
B03	P5.IDT114.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAGACGTGACACTCTTTCCCTACrACGACa/3SpC3/
C03	P5.IDT115.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCGGAATTACACTCTTTCCCTACrACGACa/3SpC3/
D03	P5.IDT116.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCCTAGAACACTCTTTCCCTACrACGACa/3SpC3/
E03	P5.IDT117.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAACGGATACACTCTTTCCCTACrACGACa/3SpC3/
F03	P5.IDT118.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGCTATCACACTCTTTCCCTACrACGACa/3SpC3/
G03	P5.IDT119.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGGTCATAACACTCTTTCCCTACrACGACa/3SpC3/
H03	P5.IDT120.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCCAATCGACACTCTTTCCCTACrACGACa/3SpC3/

A04	P5.IDT121.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGCTTGTACACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT122.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAAGGTTCACACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT123.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATCTCGCTACACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT124.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTTACGGACACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT125.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGTCTGAACACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT126.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGACTTCGACACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT127.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGATCACACACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT128.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACACCAGTACACTCTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT129.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGGTTAGACACTCTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT130.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTTGGCTACACTCTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT131.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCAACTGGACACTCTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT132.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGCACTTACACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT133.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACACGGTTACACTCTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT134.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAATACGCGACACTCTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT135.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCGAACTACACTCTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT136.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTGACTAACACTCTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT137.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGGTGTTACACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT138.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGCTTACACACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT139.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCAAGGACACACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT140.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGAACCTGACACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT141.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTGTTGGACACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT142.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTACTCTCACACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT143.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCGTATCTACACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT144.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGAAGAACACACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT145.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCGGAATACACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT146.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGAGCTTACACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT147.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTGATCAACACTCTTTCCCTACrACGACa/3SpC3/

D07	P5.IDT148.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGCATTGACACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT149.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGACGCATACACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT150.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCGATGTAACACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT151.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCGCAGTACACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT152.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGACAGAACACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT153.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCTTGAGACACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT154.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGTGGTTACACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT155.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTGTAAGACACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT156.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCAAGACTACACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT157.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATTGCGTGACACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT158.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGAAGCTACACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT159.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAACGAGGACACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT160.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGTCTCAACACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT161.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCCTGTGACACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT162.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTTGAGTACACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT163.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTCGCTTACACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT164.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAGGTAGGACACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT165.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGGAGATACACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT166.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATCGTGAACACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT167.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTTGTGGACACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT168.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACAGACCTACACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT169.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCCTTCTACACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT170.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGATACGCACACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT171.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGTGTTGACACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT172.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACGTGGAACACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT173.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTGCGATACACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT174.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACGACGTACACTCTTTCCCTACrACGACa/3SpC3/

G10	P5.IDT175.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTATTCGACACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT176.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCAAGCAACACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT177.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTTCGAGACACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT178.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCCATGTACACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT179.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTCTTGTACACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT180.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATAAGGCGACACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT181.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTCTGCTACACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT182.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGCTTAACACACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT183.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATCCATGACACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT184.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCTCTGTACACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT185.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCCACTTAACACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT186.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCTGACTACACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT187.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTAAGGCACACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT188.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGCCAACACACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT189.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGAGGTTGACACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT190.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCATCCAACACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT191.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGGATAGACACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT192.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGAGATCACACTCTTTCCCTACrACGACa/3SpC3/

Table 5. | Plate P5.3

Well Position	Name	Sequence
A01	P5.IDT193.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTCGTTCACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACTCGTAGTCACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACTGTGGTACACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACCCAGTGTTACACTCTTTCCCTACrACGACa/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/

A04	P5.IDT217.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACAGCAACACACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT218.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGGTTCTACACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT219.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGACATCACACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT220.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACCTCCTACACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT221.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGCGATTACACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT222.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGTCACTACACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT223.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCAATTCGACACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT224.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTTCTTGACACTCTTTCCCTACrACGACa/3SpC3/
A05	P5.IDT225.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACTGGTGACACTCTTTCCCTACrACGACa/3SpC3/
B05	P5.IDT226.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGGAATACACACTCTTTCCCTACrACGACa/3SpC3/
C05	P5.IDT227.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTTCGAAACACTCTTTCCCTACrACGACa/3SpC3/
D05	P5.IDT228.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAAGGTCTACACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT229.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACCTTGGACACTCTTTCCCTACrACGACa/3SpC3/
F05	P5.IDT230.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCATACGTACACTCTTTCCCTACrACGACa/3SpC3/
G05	P5.IDT231.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGTCCTTACACTCTTTCCCTACrACGACa/3SpC3/
H05	P5.IDT232.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCGCATAACACTCTTTCCCTACrACGACa/3SpC3/
A06	P5.IDT233.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTTCCTTACACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT234.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACACGCTACACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT235.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCGTAGAACACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT236.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAAGAGCCAACACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT237.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGGAAGGACACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT238.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCCAGTATACACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT239.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTAGGTTACACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT240.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGAGTATGACACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT241.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAAGTGCAACACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT242.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGAGTGAACACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT243.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTACAGTGACACTCTTTCCCTACrACGACa/3SpC3/

D07	P5.IDT244.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATCGTACACACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT245.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTCACCAACACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT246.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCAGCTAACACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT247.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCTGCTCTACACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT248.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACCGAAGACACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT249.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTGTTGTACACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT250.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTACGGCTACACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT251.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACAAGAGACACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT252.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGATCTGACACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT253.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTAGCATCACACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT254.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTGTTCCTACACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT255.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGATGGTACACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT256.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCACGTTCACACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT257.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCGTTCTAACACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT258.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCTGGTTACACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT259.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTAGGTCGACACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT260.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCTGAGAGACACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT261.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCAGCCTACACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT262.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCTCCGATACACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT263.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGGTATCACACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT264.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTCAGGAACACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT265.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAAGGCTGAACACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT266.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGATGCTTACACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT267.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTATTGGCACACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT268.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTGTGTCACACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT269.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCCTCTTACACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT270.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGTCTTCACACTCTTTCCCTACrACGACa/3SpC3/

G10	P5.IDT271.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATAACGGACACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT272.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACTGCTAGACACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT273.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATTCTGGCACACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT274.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCTCTCGACACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT275.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCCGAGTTACACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT276.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGAACTGTACACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT277.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAACGGTCAACACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT278.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGCAGATGACACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT279.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTATCAGCGACACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT280.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCAGACGAACACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT281.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCATGTGACACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT282.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTAACTCGACACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT283.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTTAGCTACACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT284.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATGGAACACACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT285.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAGGATGCACACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT286.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTTCATGGACACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT287.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGTGGATACACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT288.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCTTCTCACACTCTTTCCCTACrACGACa/3SpC3/

Table 6. | Plate P5.4

Well Position	Name	Sequence
A01	P5.IDT289.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATTGCCTACACTCTTTCCCTACrACGACa/3SpC3/
B01	P5.IDT290.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTAGGTGAACACTCTTTCCCTACrACGACa/3SpC3/
C01	P5.IDT291.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCCGTATGACACTCTTTCCCTACrACGACa/3SpC3/
D01	P5.IDT292.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGATGACACACTCTTTCCCTACrACGACa/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/

A04	P5.IDT313.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAACCTAGACACTCTTTCCCTACrACGACa/3SpC3/
B04	P5.IDT314.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAAGGACACACACTCTTTCCCTACrACGACa/3SpC3/
C04	P5.IDT315.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCAGGTAACACTCTTTCCCTACrACGACa/3SpC3/
D04	P5.IDT316.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCTAAGGACACTCTTTCCCTACrACGACa/3SpC3/
E04	P5.IDT317.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTCTGTGACACTCTTTCCCTACrACGACa/3SpC3/
F04	P5.IDT318.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGTTCGAACACTCTTTCCCTACrACGACa/3SpC3/
G04	P5.IDT319.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACTATGCACACTCTTTCCCTACrACGACa/3SpC3/
H04	P5.IDT320.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTCAGGAGACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACGCCATAACACACTCTTTCCCTACrACGACa/3SpC3/
E05	P5.IDT325.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTACCGAGACACTCTTTCCCTACrACGACa/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	AATGATACGGCGACCACCGAGATCTACACTAGTTGCGACACTCTTTCCCTACrACGACa/3SpC3/
B06	P5.IDT330.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGATCGGAACACTCTTTCCCTACrACGACa/3SpC3/
C06	P5.IDT331.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCAAGTTGACACTCTTTCCCTACrACGACa/3SpC3/
D06	P5.IDT332.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCTACTGAACACTCTTTCCCTACrACGACa/3SpC3/
E06	P5.IDT333.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTGCTGTACACTCTTTCCCTACrACGACa/3SpC3/
F06	P5.IDT334.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGCCATTCACACTCTTTCCCTACrACGACa/3SpC3/
G06	P5.IDT335.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGATCCGACACTCTTTCCCTACrACGACa/3SpC3/
H06	P5.IDT336.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGTGCAGTACACTCTTTCCCTACrACGACa/3SpC3/
A07	P5.IDT337.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACTTAGGACACTCTTTCCCTACrACGACa/3SpC3/
B07	P5.IDT338.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTACGAAACACTCTTTCCCTACrACGACa/3SpC3/
C07	P5.IDT339.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACCAGGAACACTCTTTCCCTACrACGACa/3SpC3/

D07	P5.IDT340.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGTCAATGACACTCTTTCCCTACrACGACa/3SpC3/
E07	P5.IDT341.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAAGAGGTACACTCTTTCCCTACrACGACa/3SpC3/
F07	P5.IDT342.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGACGAATGACACTCTTTCCCTACrACGACa/3SpC3/
G07	P5.IDT343.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGAGGAAACACTCTTTCCCTACrACGACa/3SpC3/
H07	P5.IDT344.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTTACAGCACACTCTTTCCCTACrACGACa/3SpC3/
A08	P5.IDT345.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAGATGTCACACTCTTTCCCTACrACGACa/3SpC3/
B08	P5.IDT346.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTACGGTTGACACTCTTTCCCTACrACGACa/3SpC3/
C08	P5.IDT347.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTATCGCAACACTCTTTCCCTACrACGACa/3SpC3/
D08	P5.IDT348.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCGAACCAACACTCTTTCCCTACrACGACa/3SpC3/
E08	P5.IDT349.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAACGCTTACACTCTTTCCCTACrACGACa/3SpC3/
F08	P5.IDT350.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGAATCGACACTCTTTCCCTACrACGACa/3SpC3/
G08	P5.IDT351.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATGGTTGCACACTCTTTCCCTACrACGACa/3SpC3/
H08	P5.IDT352.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCTGGATTACACTCTTTCCCTACrACGACa/3SpC3/
A09	P5.IDT353.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATGCACTACACTCTTTCCCTACrACGACa/3SpC3/
B09	P5.IDT354.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCAATGCACACTCTTTCCCTACrACGACa/3SpC3/
C09	P5.IDT355.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCCTAAGACACTCTTTCCCTACrACGACa/3SpC3/
D09	P5.IDT356.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCCGACTATACACTCTTTCCCTACrACGACa/3SpC3/
E09	P5.IDT357.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGGTCTCACACTCTTTCCCTACrACGACa/3SpC3/
F09	P5.IDT358.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGCCTTGTTACACTCTTTCCCTACrACGACa/3SpC3/
G09	P5.IDT359.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATACTGGACACTCTTTCCCTACrACGACa/3SpC3/
H09	P5.IDT360.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACATTCGAGGACACTCTTTCCCTACrACGACa/3SpC3/
A10	P5.IDT361.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTCAGTTGACACTCTTTCCCTACrACGACa/3SpC3/
B10	P5.IDT362.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTAGAGCAACACTCTTTCCCTACrACGACa/3SpC3/
C10	P5.IDT363.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACGTGATGACACTCTTTCCCTACrACGACa/3SpC3/
D10	P5.IDT364.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTAAGTGGCACACTCTTTCCCTACrACGACa/3SpC3/
E10	P5.IDT365.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGTGAAGCACACTCTTTCCCTACrACGACa/3SpC3/
F10	P5.IDT366.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCATTCGGTACACTCTTTCCCTACrACGACa/3SpC3/

G10	P5.IDT367.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTTGGTGAGACACTCTTTCCCTACrACGACa/3SpC3/
H10	P5.IDT368.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCAGTTCTGACACTCTTTCCCTACrACGACa/3SpC3/
A11	P5.IDT369.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAGGCTTCTACACTCTTTCCCTACrACGACa/3SpC3/
B11	P5.IDT370.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGAATCGTGACACTCTTTCCCTACrACGACa/3SpC3/
C11	P5.IDT371.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACCAGCTTACACTCTTTCCCTACrACGACa/3SpC3/
D11	P5.IDT372.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTCATTGCACACTCTTTCCCTACrACGACa/3SpC3/
E11	P5.IDT373.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGATAGAGACACTCTTTCCCTACrACGACa/3SpC3/
F11	P5.IDT374.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGGAGAGTACACTCTTTCCCTACrACGACa/3SpC3/
G11	P5.IDT375.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGTATGCTGACACTCTTTCCCTACrACGACa/3SpC3/
H11	P5.IDT376.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCTGGAGTAACACTCTTTCCCTACrACGACa/3SpC3/
A12	P5.IDT377.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAATGCCTCACACTCTTTCCCTACrACGACa/3SpC3/
B12	P5.IDT378.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTGAGGTGTACACTCTTTCCCTACrACGACa/3SpC3/
C12	P5.IDT379.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACACATTGCGACACTCTTTCCCTACrACGACa/3SpC3/
D12	P5.IDT380.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACTCTCTAGGACACTCTTTCCCTACrACGACa/3SpC3/
E12	P5.IDT381.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGCTAGTAACACTCTTTCCCTACrACGACa/3SpC3/
F12	P5.IDT382.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACAATGGACGACACTCTTTCCCTACrACGACa/3SpC3/
G12	P5.IDT383.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACGATAGCGAACACTCTTTCCCTACrACGACa/3SpC3/
H12	P5.IDT384.Rd1x.x1	AATGATACGGCGACCACCGAGATCTACACCGACCATTACACTCTTTCCCTACrACGACa/3SpC3/

Table 7. | Plate P7.1

Well Position	Name	Sequence
A01	P7.IDT001.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGATCGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT002.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTCTCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT003.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGAGCTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT004.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGACGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT005.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTGTCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT006.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCCAAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT007.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGCATGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT008.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGGAACAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT009.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGGCTAATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT010.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCGATCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT011.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCAAGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT012.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTATCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT013.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTACGCTACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT014.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGACTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT015.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGAGTAGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT016.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCCAGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT017.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGACGATCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT018.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACTGAGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT019.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTAGGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT020.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGCCATAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT021.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAATCCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT022.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGCTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT023.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCGTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT024.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAAGCACTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

A04	P7.IDT025.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCTTGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT026.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCGAAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT027.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCACGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT028.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATTACCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT029.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCACAACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT030.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCGTCATTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT031.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCCGGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT032.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTTGCAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT033.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGAAGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT034.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATGGCTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT035.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGCCTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT036.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAACACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT037.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTGACTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT038.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCATCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT039.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCACTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT040.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAAGGAAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT041.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTGTTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT042.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGGTTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT043.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTGAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT044.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGAAGACGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT045.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTACGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT046.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCGTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT047.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATCGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT048.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACAGCTCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT049.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGCAGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT050.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTTCGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT051.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGCGAAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

D07	P7.IDT052.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCGCCATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT053.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGCATGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT054.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGTTGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT055.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATACCACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT056.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAAGTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT057.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGACGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT058.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGGACGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT059.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTGGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT060.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATAGGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT061.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGTAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT062.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGCAATCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT063.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATGTGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT064.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATTGCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT065.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGCTCTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT066.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTATCGGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT067.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACGTCTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT068.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGTTCAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT069.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGTCCAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT070.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGCAGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT071.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAATGTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT072.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTCCATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT073.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTGACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT074.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTGTGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT075.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGACTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT076.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCACTAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT077.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTAGGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT078.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTAGGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

G10	P7.IDT079.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCTGATTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT080.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGCACGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT081.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGACGTTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT082.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTACGCCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT083.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCGTAAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT084.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCACACGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT085.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCACCTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT086.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTCGACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT087.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCTTCCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT088.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGAACGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT089.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTCTCGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT090.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCAGGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT091.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCTTGTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT092.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAACATCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT093.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAACCGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT094.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACCGTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT095.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGTACAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT096.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATATGCGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/

Table 8. | Plate P7.2

Well Position	Name	Sequence
A01	P7.IDT097.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCCTATCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT098.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTGGATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT099.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTCTCACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT100.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCATCAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT101.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTACCGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT102.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAAGTCGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT103.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCACGTTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT104.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCACAGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT105.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTACTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT106.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCTCAGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT107.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCCTACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT108.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGGCGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT109.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTACCTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT110.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCGATACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT111.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCCGTGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT112.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAGAGCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT113.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGACTGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT114.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAGACGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT115.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCGGAATTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT116.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCCTAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT117.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAACGGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT118.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGCTATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT119.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGGTCATAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT120.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCCAATCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

A04	P7.IDT121.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGCTTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT122.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAAGGTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT123.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCTCGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT124.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTTACGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT125.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGTCTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT126.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGACTTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT127.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGATCACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT128.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACACCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT129.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGGTTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT130.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTTGGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT131.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCAACTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT132.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGCACTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT133.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACACGGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT134.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAATACGCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT135.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCGAACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT136.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTGACTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT137.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGGTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT138.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGCTTACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT139.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCAAGGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT140.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGAACCTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT141.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTGTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT142.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTACTCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT143.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCGTATCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT144.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGAAGAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT145.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCGGAATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT146.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGAGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT147.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTGATCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/

D07	P7.IDT148.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGCATTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT149.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGACGCATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT150.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCGATGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT151.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCGCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT152.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGACAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT153.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCTTGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT154.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGTGGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT155.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTGTAAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT156.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCAAGACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT157.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATTGCGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT158.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGAAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT159.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAACGAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT160.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGTCTCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT161.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCCTGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT162.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTTGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT163.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTCGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT164.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAGGTAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT165.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGGAGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT166.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATCGTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT167.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTTGTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT168.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACAGACCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT169.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCCTTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT170.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGATACGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT171.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGTGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT172.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACGTGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT173.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTGCGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT174.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACGACGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

G10	P7.IDT175.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTATTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT176.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCAAGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT177.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTTCGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT178.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCCATGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT179.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTCTTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT180.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATAAGGCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT181.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTCTGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT182.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGCTTAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT183.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATCCATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT184.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCTCTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT185.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCCACTTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT186.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCTGACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT187.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTAAGGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT188.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGCCAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT189.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGAGGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT190.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCATCCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT191.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGGATAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT192.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGAGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/

Table 9. | Plate P7.3

Well Position	Name	Sequence
A01	P7.IDT193.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTCGTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT194.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCTAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT195.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGTCGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT196.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGCTCAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT197.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTGTACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT198.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCACTGACAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT199.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGTAGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT200.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCACGTAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT201.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAAGCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT202.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACATAGGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT203.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTGGTACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT204.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCACCACTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT205.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGCGTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT206.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGGTCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT207.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATTGGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT208.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTCCAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT209.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCAGTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT210.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCACCAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT211.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGACAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT212.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGCATAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT213.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAGCCGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT214.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGTCGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT215.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATCTACGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT216.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCATACAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

A04	P7.IDT217.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACAGCAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT218.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGGTTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT219.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGACATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT220.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACCTCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT221.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGCGATTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT222.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGTCACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT223.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCAATTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT224.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTTCTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT225.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACTGGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT226.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGGAATACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT227.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTTCGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT228.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAAGGTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT229.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACCTTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT230.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCATACGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT231.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGTCCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT232.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCGCATAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT233.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCTTCCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT234.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTACACGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT235.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCGTAGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT236.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAAGAGCCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT237.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGGAAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT238.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCCAGTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT239.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTAGGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT240.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGAGTATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT241.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAAGTGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT242.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGAGTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT243.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTACAGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/

D07	P7.IDT244.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATCGTACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT245.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTCACCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT246.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCAGCTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT247.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCTGCTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT248.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACCGAAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT249.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTGTTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT250.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTACGGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT251.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGACAAGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT252.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGATCTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT253.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTAGCATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT254.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTGTTCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT255.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGATGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT256.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCACGTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT257.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCGTTCTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT258.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCTGGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT259.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTAGGTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT260.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCTGAGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT261.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCAGCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT262.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCTCCGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT263.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGGTATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT264.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTCAGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT265.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAAGGCTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT266.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGATGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT267.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTATTGGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT268.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTGTGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT269.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCCTCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT270.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGTCTTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/

G10	P7.IDT271.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATAACGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT272.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTGCTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT273.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATTCTGGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT274.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCTCTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT275.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCCGAGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT276.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGAACTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT277.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAACGGTCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT278.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCAGATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT279.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTATCAGCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT280.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCAGACGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT281.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCATGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT282.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTAACTCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT283.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTTAGCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT284.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATGGAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT285.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAGGATGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT286.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTTCATGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT287.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGTGGATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT288.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCTTCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/

Table 10. | Plate P7.4

Well Position	Name	Sequence
A01	P7.IDT289.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATTGCCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B01	P7.IDT290.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTAGGTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C01	P7.IDT291.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCCGTATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D01	P7.IDT292.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGATGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E01	P7.IDT293.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCGGTAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F01	P7.IDT294.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGAAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G01	P7.IDT295.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGAAGCGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H01	P7.IDT296.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCTACTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A02	P7.IDT297.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTAGGCATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B02	P7.IDT298.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGAGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C02	P7.IDT299.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGGACTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D02	P7.IDT300.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAATCGACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E02	P7.IDT301.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCTAACGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F02	P7.IDT302.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCTCGCAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G02	P7.IDT303.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATCGGTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H02	P7.IDT304.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGATACGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A03	P7.IDT305.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCTCCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B03	P7.IDT306.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTCGACAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C03	P7.IDT307.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGGATTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D03	P7.IDT308.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCACAAGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E03	P7.IDT309.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTACATCGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F03	P7.IDT310.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGCTCCTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G03	P7.IDT311.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACTCGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H03	P7.IDT312.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGACACAGTGACTGGAGTTCAGArCGTGTa/3SpC3/

A04	P7.IDT313.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAACCTAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B04	P7.IDT314.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAAGGACACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C04	P7.IDT315.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCAGGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D04	P7.IDT316.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCTAAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E04	P7.IDT317.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTCTGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F04	P7.IDT318.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGTTCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G04	P7.IDT319.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGACTATGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H04	P7.IDT320.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTCAGGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A05	P7.IDT321.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTGCGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B05	P7.IDT322.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGAGACTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C05	P7.IDT323.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCAGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D05	P7.IDT324.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCCATAACGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E05	P7.IDT325.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTACCGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F05	P7.IDT326.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTCTGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G05	P7.IDT327.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTTATGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H05	P7.IDT328.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCTGATCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A06	P7.IDT329.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAGTTGCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B06	P7.IDT330.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGATCGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C06	P7.IDT331.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCAAGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D06	P7.IDT332.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCTACTGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E06	P7.IDT333.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTGCTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F06	P7.IDT334.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGCCATTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G06	P7.IDT335.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGATCCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H06	P7.IDT336.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGTGCAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A07	P7.IDT337.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGACTTAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B07	P7.IDT338.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTACGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C07	P7.IDT339.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTACCAGGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/

D07	P7.IDT340.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGTCAATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E07	P7.IDT341.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAAGAGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F07	P7.IDT342.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGACGAATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G07	P7.IDT343.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGAGGAAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H07	P7.IDT344.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTTACAGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A08	P7.IDT345.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAGATGTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B08	P7.IDT346.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTACGGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C08	P7.IDT347.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTATCGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D08	P7.IDT348.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCGAACCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E08	P7.IDT349.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAACGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F08	P7.IDT350.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGAATCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G08	P7.IDT351.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATGGTTGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H08	P7.IDT352.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCTGGATTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A09	P7.IDT353.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATGCACTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B09	P7.IDT354.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCAATGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C09	P7.IDT355.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCCTAAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D09	P7.IDT356.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCCGACTATGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E09	P7.IDT357.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGGTCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F09	P7.IDT358.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGCCTTGTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G09	P7.IDT359.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATACTGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H09	P7.IDT360.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATATTCGAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A10	P7.IDT361.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTCAGTTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B10	P7.IDT362.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTAGAGCAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C10	P7.IDT363.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACGTGATGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D10	P7.IDT364.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTAAGTGGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E10	P7.IDT365.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGTGAAGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F10	P7.IDT366.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCATTCGGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

G10	P7.IDT367.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTTGGTGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H10	P7.IDT368.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCAGTTCTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A11	P7.IDT369.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAGGCTTCTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B11	P7.IDT370.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGAATCGTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C11	P7.IDT371.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACCAGCTTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D11	P7.IDT372.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTCATTGCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E11	P7.IDT373.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGATAGAGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F11	P7.IDT374.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGGAGAGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G11	P7.IDT375.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGTATGCTGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H11	P7.IDT376.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCTGGAGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
A12	P7.IDT377.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAATGCCTCGTGACTGGAGTTCAGArCGTGTa/3SpC3/
B12	P7.IDT378.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTGAGGTGTGTGACTGGAGTTCAGArCGTGTa/3SpC3/
C12	P7.IDT379.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATACATTGCGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
D12	P7.IDT380.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATTCTCTAGGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
E12	P7.IDT381.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGCTAGTAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
F12	P7.IDT382.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATAATGGACGGTGACTGGAGTTCAGArCGTGTa/3SpC3/
G12	P7.IDT383.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATGATAGCGAGTGACTGGAGTTCAGArCGTGTa/3SpC3/
H12	P7.IDT384.Rd2x.x1	CAAGCAGAAGACGGCATACGAGATCGACCATTGTGACTGGAGTTCAGArCGTGTa/3SpC3/

Table 11. | TCR-Specific Primers

Name	Sequence	Notes
Rd1.AV01.x1	ctctttccctacacgacgctcttccgatctAACTGCACGTACCAGACATCTrGGGTTa/3SpC3/	Amplifies TRAV1-1,TRAV1-2
Rd1.AV02.x1	ctctttccctacacgacgctcttccgatctTCATCGCTGCTCATCCTCCrAGGTGa/3SpC3/	Amplifies TRAV2
Rd1.AV03.x1	ctctttccctacacgacgctcttccgatctCCTGGTTAAAGGCAGCTATGGrCTTTGc/3SpC3/	Amplifies TRAV3
Rd1.AV04.x1	ctctttccctacacgacgctcttccgatctGCCGACAGAAAGTCCAGCrACTCTa/3SpC3/	Amplifies TRAV4
Rd1.AV05.x1	ctctttccctacacgacgctcttccgatctTCTGCGCATTGCAGACACrCCAGAa/3SpC3/	Amplifies TRAV5
Rd1.AV06.x1	ctctttccctacacgacgctcttccgatctTGAAGGTCACCTTTGATACCACCrCTTAAc/3SpC3/	Amplifies TRAV6
Rd1.AV07.x1	ctctttccctacacgacgctcttccgatctCCGTGCAGCCTGAAGATTCrAGCCAa/3SpC3/	Amplifies TRAV7
Rd1.AV08-1.x1	ctctttccctacacgacgctcttccgatctTGGTCAACACCTTCAGCTTCTrCCTCAc/3SpC3/	Amplifies TRAV8-1
Rd1.AV08-2/4/6.x1	ctctttccctacacgacgctcttccgatctAAGGACTCCAGCTTCTCCTGrAAGTAg/3SpC3/	Amplifies TRAV8-2,TRAV8-4,TRAV8-6
Rd1.AV08-3.x1	ctctttccctacacgacgctcttccgatctGGAAACCCTCTGTGCATTGGrAGTGAc/3SpC3/	Amplifies TRAV8-3
Rd1.AV9.x1	ctctttccctacacgacgctcttccgatctGAAACCACTTCTTTCCACTTGGArGAAAGc/3SpC3/	Amplifies TRAV9-1,TRAV9-2
Rd1.AV10.x1	ctctttccctacacgacgctcttccgatctCACAAAGCAAAGCTCTCTGCArCATCAa/3SpC3/	Amplifies TRAV10
Rd1.AV12.x1	ctctttccctacacgacgctcttccgatctCAGTGATTCAGCCACCTACCTrCTGTGa/3SpC3/	Amplifies TRAV12-1,TRAV12-2,TRAV12-3
Rd1.AV13-1.x1	ctctttccctacacgacgctcttccgatctACAAGACAGCCAAACATTTCTCCrCTGCAa/3SpC3/	Amplifies TRAV13-1
Rd1.AV13-2.x1	ctctttccctacacgacgctcttccgatctTGCAGCTACTCAACCTGGArGACTCc/3SpC3/	Amplifies TRAV13-2
Rd1.AV14.x1	ctctttccctacacgacgctcttccgatctACCTTGTCATCTCCGCTTCArCAACTa/3SpC3/	Amplifies TRAV14/DV4
Rd1.AV16.x1	ctctttccctacacgacgctcttccgatctGGCGAGACATCTTTCCACCTrGAAGAc/3SpC3/	Amplifies TRAV16
Rd1.AV17.x1	ctctttccctacacgacgctcttccgatctAGTCACGCTTGACACTTCCArAGAAAc/3SpC3/	Amplifies TRAV17
Rd1.AV18.x2	ctctttccctacacgacgctcttccgatctCAGTTCCTTCCACCTGGAGArAGCCCa/3SpC3/	Amplifies TRAV18
Rd1.AV19.x1	ctctttccctacacgacgctcttccgatctCACAGCCTCACAAGTCGTGrGACTCc/3SpC3/	Amplifies TRAV19
Rd1.AV20.x1	ctctttccctacacgacgctcttccgatctCTGCACATCACAGCCCCTArAACCTa/3SpC3/	Amplifies TRAV20
Rd1.AV21.x1	ctctttccctacacgacgctcttccgatctACATTGCAGCTTCTCAGCCTrGGTGAa/3SpC3/	Amplifies TRAV21
Rd1.AV22.x1	ctctttccctacacgacgctcttccgatctTCCTCTTCCCAGACCACAGArCTCAGa/3SpC3/	Amplifies TRAV22
Rd1.AV23.x1	ctctttccctacacgacgctcttccgatctGATTCCCAGCCTGGAGACTCrAGCCAa/3SpC3/	Amplifies TRAV23/DV6

Rd1.AV24.x1	ctctttccctacacgacgctcttccgatctGTACATCAAAGGATCCCAGCCTrGAAGAa/3SpC3/	Amplifies TRAV24
Rd1.AV25.x1	ctctttccctacacgacgctcttccgatctGCCACCCAGACTACAGATGTrAGGAAa/3SpC3/	Amplifies TRAV25
Rd1.AV26-1.x1	ctctttccctacacgacgctcttccgatctCGCTACGCTGAGAGACACTrGCTGTa/3SpC3/	Amplifies TRAV26-1
Rd1.AV26-2.x1	ctctttccctacacgacgctcttccgatcttGGCAATCGCTGAAGACAGArAAGTCa/3SpC3/	Amplifies TRAV26-2
Rd1.AV27.x1	ctctttccctacacgacgctcttccgatcttGCAAGAAAGGACAGTTCTCTCCrACATCc/3SpC3/	Amplifies TRAV27
Rd1.AV29.x1	ctctttccctacacgacgctcttccgatcttGGAGACTCTGCAGTGTACTTCTrGTGCAa/3SpC3/	Amplifies TRAV29/DV5
Rd1.AV30.x1	ctctttccctacacgacgctcttccgatctGCAAAGCTCCCTGTACCTTACGrGCCTCa/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	ctctttccctacacgacgctcttccgatcttGCATGACCTCTCTGCCACrCTACTc/3SpC3/	Amplifies TRAV39
Rd1.AV40.x2	ctctttccctacacgacgctcttccgatctCCCCCATTGTGAAATATTCAGTCCrAGGTAc/3SpC3/	Amplifies TRAV40
Rd1.AV41.x1	ctctttccctacacgacgctcttccgatctCCCATCCCAGAGACTCTGCrCGTCTc/3SpC3/	Amplifies TRAV41
Rd1.BV02.x1	ctctttccctacacgacgctcttccgatcttCTGAAGATCCGGTCCACAAAGrCTGGAa/3SpC3/	Amplifies TRBV2
Rd1.BV03.x1	ctctttccctacacgacgctcttccgatctCAATTCCCTGGAGCTTGGTGArCTCTGa/3SpC3/	Amplifies TRBV3-1,TRBV3-2
Rd1.BV04.x1	ctctttccctacacgacgctcttccgatcttCTCACCTGAATGCCCCAACrAGCTCc/3SpC3/	Amplifies TRBV4-1,TRBV4-2,TRBV4-3
Rd1.BV05-1.x1	ctctttccctacacgacgctcttccgatctCGCTCTGAGATGAATGTGAGCArCCTTGa/3SpC3/	Amplifies TRBV5-1
Rd1.BV05-4/5/6/8.x1	ctctttccctacacgacgctcttccgatctCTCTGAGCTGAATGTGAACGCrCTTGGc/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	ctctttccctacacgacgctcttccgatctCGGTTCTCTGCAGAGAGGCrCTGAGt/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

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	ctctttccctacacgacgctcttccgatctCAGGAGGCCGAACACTTCTTTrCTGCTc/3SpC3/	Amplifies TRBV15
Rd1.BV16.x1	ctctttccctacacgacgctcttccgatctACGAAGCTTGAGGATTCAGCArGTGTAc/3SpC3/	Amplifies TRBV16
Rd1.BV18.x1	ctctttccctacacgacgctcttccgatctGCATCCTGAGGATCCAGCArGGTAGc/3SpC3/	Amplifies TRBV18
Rd1.BV19.x1	ctctttccctacacgacgctcttccgatctCCAAAAGAACCCGACAGCTTTCTrATCTCc/3SpC3/	Amplifies TRBV19
Rd1.BV20.x1	ctctttccctacacgacgctcttccgatctCAGTGCCCATCCTGAAGACArGCAGCc/3SpC3/	Amplifies TRBV20-1
Rd1.BV24.x1	ctctttccctacacgacgctcttccgatcttCTCCCTGTCCCTAGAGTCTGrCCATCa/3SpC3/	Amplifies TRBV24-1
Rd1.BV25.x1	ctctttccctacacgacgctcttccgatctACAGTCTCCAGAATAAGGACGGArGCATTc/3SpC3/	Amplifies TRBV25-1
Rd1.BV27.x1	ctctttccctacacgacgctcttccgatctCCCCAACCAGACCTCTCTGTArCTTCTa/3SpC3/	Amplifies TRBV27
Rd1.BV28.x1	ctctttccctacacgacgctcttccgatctCCAGCACCAACCAGACATCTrATGTAa/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]

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

[Reads]

248

48

[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	

A13	S13			ATTCCGCT	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	TGTTCGAG	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			CGAACAAC	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

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	CTGGTTCT	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

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			AATTCCGG	IDT115	CTTAGGAC	IDT019
E06	S102			CCTGTCAA	IDT211	CCGGAATT	IDT115
E07	S103			AGCGAGAT	IDT123	ACCACGAT	IDT027
E08	S104			GATGTCGA	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	AACGTCTG	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

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	TTAGGTCG	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			TCTTACGG	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			TTCGCCAT	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			CAGGTTCA	IDT140	TGAAGACG	IDT044
G12	S156			TGGCTCTT	IDT236	TGAACCTG	IDT140

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			GTTCCATG	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

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			ATCCGTTG	IDT117	GAATCCGA	IDT021
I06	S198			TTCGGCTA	IDT213	CAACGGAT	IDT117
I07	S199			TCAGACAC	IDT125	GCACAACT	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	AGTGTTGG	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	CGTGTACT	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

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	TGCCTCTT	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	GTACTCTC	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

L01	S265			ACCTTCGA	IDT294	CACTGACA	IDT198
L02	S266			CCTTGGAA	IDT006	TCGAAGGT	IDT294
L03	S267			TTGCGAGA	IDT302	ACGGTCTT	IDT206
L04	S268			AGAGTCCA	IDT014	TCTCGCAA	IDT302
L05	S269			TAGGAGCT	IDT310	TTGTCGGT	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	GTGTTCCT	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	GTTCATGG	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

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			TTCCTCCT	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

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	AGTGCAGT	IDT336

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	ATTCGAGG	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]

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

[Reads]

248
48

[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	

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	CACGTCTA	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	AATTCCGG	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	TTGCGAAG	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

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	ACGTTCAG	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	GCACAACT	IDT029
E05	S53			AACCGTGT	IDT133	TGTGACTG	IDT037
E06	S54			CCAACACT	IDT141	GTTACGCA	IDT045
E07	S55			ATGCGTCA	IDT149	TGGCATGT	IDT053
E08	S56			CACGCAAT	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

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

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]

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

[Reads]

248
48

[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	

A08	S8	ACAACAGC	IDT249	AGCTTGAG	IDT153
A09	S9	TAGAACGC	IDT257	TTCCTGTG	IDT161
A10	S10	TCAGCCTT	IDT265	GTCCTTCT	IDT169
A11	S11	GCCAGAAT	IDT273	TGTTCGAG	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	GAAGGTTC	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	CTCCATGT	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

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	AGTGTTGG	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

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

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]

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

[Reads]

248
48

[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				AACGCACA	IDT321	AACTGGTG	IDT225	
A06	S6				CGCAACTA	IDT329	CCTTCCTT	IDT233	
A07	S7				CCTAAGTC	IDT337	CAAGTGCA	IDT241	

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			TGTCGACT	IDT306	TGCACCAA	IDT210
B04	S16			GTGTCCTT	IDT314	CTGGTTCT	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

D01	S37			GTCATCGT	IDT292	GAGCTCAA	IDT196
D02	S38			GTCGATTG	IDT300	CACCACTA	IDT204
D03	S39			GACTTGTG	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

F06	S66			GAATGGCA	IDT334	GCCAGTAT	IDT238
F07	S67			CATTCGTC	IDT342	CTCAGCTA	IDT246
F08	S68			CGATTCTG	IDT350	GTGTTCCT	IDT254
F09	S69			AACAAGGC	IDT358	TCTCCGAT	IDT262
F10	S70			ACCGAATG	IDT366	CAGTCTTC	IDT270
F11	S71			ACTCTCCA	IDT374	AGCAGATG	IDT278
F12	S72			CGTCCATT	IDT382	GTTCATGG	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			CAGCATAC	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

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

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[Header]

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


[Reads]

            248

             48


[Settings]


[Data]
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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	

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

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	CCTTGGAA	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

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

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