

MAKE SUD MSI (1ST BATCH)

| | | | | | | | | | |
|----------------------|-------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|
| W A S H | A | 1 | 4 | 7 | | | | | |
| | | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | | |
| | | 2 | 5 | 8 | | | | | |
| | | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | | |
| | | 3 | 6 | | | | | | |
| | | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | | | |

- Heat Block (95°C, 30 min)
Start: _____ Stop: _____
- Incubate SUD (Illumina LIMS)

A _____
MS1 Barcode

LIMS Project Name: _____

Operator _____

Robot _____

Date _____

Comments _____

MAKE SUD MSI (2ND BATCH)

| | | | | | | | | | |
|----------------------|-------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|
| W A S H | A | 1 | 4 | 7 | | | | | |
| | | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | | |
| | | 2 | 5 | 8 | | | | | |
| | | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | | |
| | | 3 | 6 | | | | | | |
| | | 96 STD DNA _____ BARCODE _____ | 96 STD DNA _____ BARCODE _____ | | 96 TCY SUD _____ BARCODE _____ | 96 TCY SUD _____ BARCODE _____ | | | |

- Heat Block (95°C, 30 min)
Start: _____ Stop: _____
- Incubate SUD (Illumina LIMS)

A _____
MS1 Barcode

Operator _____

Robot _____

Date _____

Comments _____

PRECIP SUD MSI (1ST BATCH)

| | | | | | | | | |
|------------------|--|--|--|--|--|--|--|---|
| W A S H | | | | | 1 96 TCY SUD _____ BARCODE | 4 96 TCY SUD _____ BARCODE | 7 96 TCY SUD _____ BARCODE | A |
| | | | | | 2 96 TCY SUD _____ BARCODE | 5 96 TCY SUD _____ BARCODE | 8 96 TCY SUD _____ BARCODE | B |
| | | | | | 3 96 TCY SUD _____ BARCODE | 6 96 TCY SUD _____ BARCODE | | |

- Spin SUD 3000xg (20 min)
- Spin SUD (Illumina LIMS)

A _____ B _____
2-Propanol Lot PS1 Barcode

Operator _____

Robot _____

Date _____

Comments _____

PRECIP SUD MSI (2ND BATCH)

| | | | | | | | | |
|------------------|--|--|--|--|--|--|--|---|
| W A S H | | | | | 1 96 TCY SUD _____ BARCODE | 4 96 TCY SUD _____ BARCODE | 7 96 TCY SUD _____ BARCODE | A |
| | | | | | 2 96 TCY SUD _____ BARCODE | 5 96 TCY SUD _____ BARCODE | 8 96 TCY SUD _____ BARCODE | B |
| | | | | | 3 96 TCY SUD _____ BARCODE | 6 96 TCY SUD _____ BARCODE | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

- Spin SUD 3000xg (20 min)
- Spin SUD (Illumina LIMS)

A _____ B _____
 2-Propanol Lot PS1 Barcode

Operator _____

Robot _____

Date _____

Comments _____

RESUSPEND SUD MSI (1ST BATCH)

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | 1 96 TCY SUD _____ BARCODE | 4 96 TCY SUD _____ BARCODE | 7 96 TCY SUD _____ BARCODE | <div style="border: 2px solid black; padding: 10px; text-align: center; font-size: 2em;">A</div> | |
| | | | | | 2 96 TCY SUD _____ BARCODE | 5 96 TCY SUD _____ BARCODE | 8 96 TCY SUD _____ BARCODE | | |
| | | | | | 3 96 TCY SUD _____ BARCODE | 6 96 TCY SUD _____ BARCODE | | | |

A _____
 RS1 Barcode

Operator _____

Robot _____

Date _____

Comments _____

RESUSPEND SUD MSI (2ND BATCH)

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | 1 96 TCY SUD _____ BARCODE | 4 96 TCY SUD _____ BARCODE | 7 96 TCY SUD _____ BARCODE | <div style="border: 2px solid black; padding: 10px; text-align: center; font-size: 2em;">A</div> | |
| | | | | | 2 96 TCY SUD _____ BARCODE | 5 96 TCY SUD _____ BARCODE | 8 96 TCY SUD _____ BARCODE | | |
| | | | | | 3 96 TCY SUD _____ BARCODE | 6 96 TCY SUD _____ BARCODE | | | |

A _____
RS1 Barcode

Operator _____

Robot _____

Date _____

Comments _____

Allele-Specific Extension

MAKE SUD ASE MSI (1ST BATCH)

| | | | | | | | | | |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|
| | | 1 | 4 | 7 | 1 | 4 | 7 | <div style="border: 2px solid black; padding: 10px; text-align: center; font-size: 2em;">A</div> | |
| | | 96 TCY ASE BARCODE _____ | 96 TCY ASE BARCODE _____ | 96 TCY ASE BARCODE _____ | 96 TCY SUD BARCODE _____ | 96 TCY SUD BARCODE _____ | 96 TCY SUD BARCODE _____ | | |
| | 2 | 96 TCY ASE BARCODE _____ | 96 TCY ASE BARCODE _____ | 96 TCY ASE BARCODE _____ | 96 TCY SUD BARCODE _____ | 96 TCY SUD BARCODE _____ | 96 TCY SUD BARCODE _____ | | |
| | 3 | 6 | | 3 | 6 | | | | |
| | 96 TCY ASE BARCODE _____ | 96 TCY ASE BARCODE _____ | | 96 TCY SUD BARCODE _____ | 96 TCY SUD BARCODE _____ | | | | |

Operator _____

Robot _____

Date _____

Comments _____

OPA Barcode-1 _____

OPA Barcode-2 _____

OPA Barcode-3 _____

OPA Barcode-4 _____

OPA Barcode-5 _____

OPA Barcode-6 _____

OPA Barcode-7 _____

OPA Barcode-8 _____

A _____
 OB1 Barcode

70°C Heat Block Reset to 30°C

Incubate for 2 hours (Up to 16 hours)

Start: _____ Stop: _____

MAKE SUD ASE MSI (2ND BATCH)

| | | | | | | | | |
|---|---|---|---|--|--|--|--|--|
| | 1 | 4 | 7 | 1 | 4 | 7 | <div style="border: 2px solid black; padding: 10px; text-align: center; font-size: 2em;">A</div> | |
| | <div style="border: 2px solid black; padding: 5px;"> 96 TCY ASE BARCODE _____ </div> | <div style="border: 2px solid black; padding: 5px;"> 96 TCY ASE BARCODE _____ </div> | <div style="border: 2px solid black; padding: 5px;"> 96 TCY ASE BARCODE _____ </div> | <div style="border: 1px solid gray; padding: 5px;"> 96 TCY SUD BARCODE _____ </div> | <div style="border: 1px solid gray; padding: 5px;"> 96 TCY SUD BARCODE _____ </div> | <div style="border: 1px solid gray; padding: 5px;"> 96 TCY SUD BARCODE _____ </div> | | <div style="border: 1px solid gray; width: 60px; height: 60px;"></div> |
| | 2 | 5 | 8 | 2 | 5 | 8 | | <div style="border: 1px solid gray; width: 60px; height: 60px;"></div> |
| 3 | 6 | | 3 | 6 | | <div style="border: 1px solid gray; width: 60px; height: 60px;"></div> | | |

Operator _____

Robot _____

Date _____

Comments _____

OPA Barcode-9 _____

OPA Barcode-10 _____

OPA Barcode-11 _____

OPA Barcode-12 _____

OPA Barcode-13 _____

OPA Barcode-14 _____

OPA Barcode-15 _____

OPA Barcode-16 _____

A _____

OB1 Barcode _____

70°C Heat Block Reset to 30°C

Incubate for 2 hours (Up to 16 hours)

Start: _____ Stop: _____

ADD MEL MSI (1ST BATCH)

| | | | | | | | | |
|----------------------|--|--|--|--|-----------------------------------|-----------------------------------|-----------------------------------|---|
| W A S H | | | | | 1 | 4 | 7 | <div style="border: 2px solid green; padding: 5px; display: inline-block; font-size: 2em;">A</div> |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | |
| | | | | | 2 | 5 | 8 | |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | |
| | | | | | 3 | 6 | | <div style="border: 2px solid purple; padding: 5px; display: inline-block; font-size: 2em;">C</div> |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | | |
| | | | | | | | | |

45°C Heat Block (15 min)
Start: _____ Stop: _____

Operator _____

Robot _____

Date _____

Comments _____

A _____
AM1 Barcode

B _____
UB1 Barcode

C _____
MEL Barcode

ADD MEL MSI (2ND BATCH)

| | | | | | | | | |
|----------------------|--|--|--|--|-----------------------------------|-----------------------------------|-----------------------------------|---|
| W A S H | | | | | 1 | 4 | 7 | <div style="border: 2px solid green; padding: 5px; display: inline-block; font-size: 2em;">A</div> |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | |
| | | | | | 2 | 5 | 8 | |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | |
| | | | | | 3 | 6 | | <div style="border: 2px solid purple; padding: 5px; display: inline-block; font-size: 2em;">C</div> |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | | |
| | | | | | | | | |

45°C Heat Block (15 min)
Start: _____ Stop: _____

Operator _____

Robot _____

Date _____

Comments _____

A _____
AM1 Barcode

B _____
UB1 Barcode

C _____
MEL Barcode

POOL ASE MSI (1ST BATCH)

| | | | | | | | | |
|------------------|--|--|--|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|
| W A S H | | | | | 1 96 TCY ASE _____ BARCODE | 4 96 TCY ASE _____ BARCODE | 7 96 TCY ASE _____ BARCODE | A |
| | | | | 96 MIDI APP _____ BARCODE | 2 96 TCY ASE _____ BARCODE | 5 96 TCY ASE _____ BARCODE | 8 96 TCY ASE _____ BARCODE | B |
| | | | | | 3 96 TCY ASE _____ BARCODE | 6 96 TCY ASE _____ BARCODE | | |

Operator _____

Robot _____

Date _____

Comments _____

A _____
IP1 Barcode

B _____
UB1 Barcode

POOL ASE MSI (2ND BATCH)

| | | | | | | | | | |
|------------------|--|--|--|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---|---|
| W A S H | | | | | 1 | 4 | 7 | A | |
| | | | | | 2 | 5 | 8 | | B |
| | | | | | 3 | 6 | | | |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | | |
| | | | | 96 MIDI APP _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | | |
| | | | | | 96 TCY ASE _____ BARCODE | 96 TCY ASE _____ BARCODE | | | |

Operator _____

Robot _____

Date _____

Comments _____

A _____
IP1 Barcode

B _____
UB1 Barcode

MAKE PCR MSI

| | | | | | | | |
|--|------------|------------|------------|-------------|-------------|-------------|--|
| | 1 | 4 | 7 | 1 | 4 | 7 | |
| | 96 TCY PCR | 96 TCY PCR | 96 TCY PCR | 96 MIDI APP | 96 MIDI APP | 96 MIDI APP | |
| | BARCODE | BARCODE | BARCODE | BARCODE | BARCODE | BARCODE | |
| | 2 | 5 | 8 | 2 | 5 | 8 | |
| | 96 TCY PCR | 96 TCY PCR | 96 TCY PCR | 96 MIDI APP | 96 MIDI APP | 96 MIDI APP | |
| | BARCODE | BARCODE | BARCODE | BARCODE | BARCODE | BARCODE | |
| | 3 | 6 | | 3 | 6 | | |
| | 96 TCY PCR | 96 TCY PCR | | 96 MIDI APP | 96 MIDI APP | | |
| | BARCODE | BARCODE | | BARCODE | BARCODE | | |

Operator _____
 Robot _____
 Date _____

 Comments _____

 MMP Barcode-1

 MMP Barcode-2

 MMP Barcode-3

 MMP Barcode-4

 MMP Barcode-5

 MMP Barcode-6

 MMP Barcode-7

 MMP Barcode-8

Add Enzyme and UDG (Illumina LIMS)
 Protocol/Program: _____
 Start: _____ Stop: _____
 Cycle PCR (Illumina LIMS)

Post-PCR

BIND PCR

| | | | | | |
|------|--|--|---|------------|---------|
| WASH | | | 1 | 96 TCY PCR | BARCODE |
| | | | 2 | 96 TCY PCR | BARCODE |
| | | | 3 | 96 TCY PCR | BARCODE |

Operator _____
 Robot _____
 Date _____

 Comments _____

[] Incubate PCR (Illumina LIMS)

MPB Barcode-1

MPB Barcode-2

MPB Barcode-3

Sec-Butanol Lot

MAKE HYB

| | | | | | | | | | | | |
|------|--|--|---|------------|---------|---|------------|---------|---|------------|---------|
| WASH | | | 1 | 96 TCY PCR | BARCODE | 1 | 96 TCY INT | BARCODE | 1 | 96 TCY HYB | BARCODE |
| | | | 2 | 96 TCY PCR | BARCODE | 2 | 96 TCY INT | BARCODE | 2 | 96 TCY HYB | BARCODE |
| | | | 3 | 96 TCY PCR | BARCODE | 3 | 96 TCY INT | BARCODE | 3 | 96 TCY HYB | BARCODE |

Operator _____
 Robot _____
 Date _____

 Comments _____

MH1 Barcode-1

MH1 Barcode-2

MH1 Barcode-3

UB2 Barcode

0.1N NaOH Lot

HYB UNIVERSAL BC (32 SAMPLE BEADCHIP)

| | | | | | | |
|------------------|---|---|-----|-----|-----|--|
| W A S H | 1 | 384 Plate GS#-HYB BARCODE _____ | BC1 | BC2 | BC3 | |
| | 2 | 384 Plate GS#-HYB BARCODE _____ | BC4 | BC5 | BC6 | |
| | 3 | 384 Plate GS#-HYB BARCODE _____ | BC7 | BC8 | BC9 | |

Operator _____

Robot _____

Date _____

Comments _____

Accession BC (Illumina LIMS)

Incubate 60°C (30 min)

Start: _____

BC1 Barcode _____

BC2 Barcode _____

BC3 Barcode _____

CHB Barcode _____

BC4 Barcode _____

BC5 Barcode _____

BC6 Barcode _____

CHB Barcode _____

Incubate 45°C for 16 hours (18 hrs max)

Start: _____

Stop: _____

BC7 Barcode _____

BC8 Barcode _____

BC9 Barcode _____

CHB Barcode _____

Hyb Oven ID _____

WASH, COAT, IMAGE (UNIVERSAL BC)

Coat Universal BC
(Illumina LIMS)

PB1 Barcode _____

XC4 Barcode _____

Comments _____

Operator _____

Date _____

Track Universal-32 BeadChips

BC #1

| | | |
|----|----|----|
| A1 | A3 | A4 |
| A2 | | |
| B1 | B3 | B4 |
| B2 | | |
| C1 | C3 | C4 |
| C2 | | |
| D1 | D3 | D4 |
| D2 | | |
| E1 | E3 | E4 |
| E2 | | |
| F1 | F3 | F4 |
| F2 | | |
| G1 | G3 | G4 |
| G2 | | |
| H1 | H3 | H4 |
| H2 | | |

| | |
|--------|--------|
| R01C01 | R01C03 |
| R01C02 | R01C04 |
| R02C01 | R02C03 |
| R02C02 | R02C04 |
| R03C01 | R03C03 |
| R03C02 | R03C04 |
| R04C01 | R04C03 |
| R04C02 | R04C04 |
| R05C01 | R05C03 |
| R05C02 | R05C04 |
| R06C01 | R06C03 |
| R06C02 | R06C04 |
| R07C01 | R07C03 |
| R07C02 | R07C04 |
| R08C01 | R08C03 |
| R08C02 | R08C04 |

Barcode: 4466836009

Scanner ID: _____

Image Date: _____

BC #2

| | | |
|----|----|----|
| A5 | A7 | A8 |
| A6 | | |
| B5 | B7 | B8 |
| B6 | | |
| C5 | C7 | C8 |
| C6 | | |
| D5 | D7 | D8 |
| D6 | | |
| E5 | E7 | E8 |
| E6 | | |
| F5 | F7 | F8 |
| F6 | | |
| G5 | G7 | G8 |
| G6 | | |
| H5 | H7 | H8 |
| H6 | | |

| | |
|--------|--------|
| R01C01 | R01C03 |
| R01C02 | R01C04 |
| R02C01 | R02C03 |
| R02C02 | R02C04 |
| R03C01 | R03C03 |
| R03C02 | R03C04 |
| R04C01 | R04C03 |
| R04C02 | R04C04 |
| R05C01 | R05C03 |
| R05C02 | R05C04 |
| R06C01 | R06C03 |
| R06C02 | R06C04 |
| R07C01 | R07C03 |
| R07C02 | R07C04 |
| R08C01 | R08C03 |
| R08C02 | R08C04 |

Barcode: _____

Scanner ID: _____

Image Date: _____

BC #3

| | | |
|-----|-----|-----|
| A9 | A11 | A12 |
| A10 | | |
| B9 | B11 | B12 |
| B10 | | |
| C9 | C11 | C12 |
| C10 | | |
| D9 | D11 | D12 |
| D10 | | |
| E9 | E11 | E12 |
| E10 | | |
| F9 | F11 | F12 |
| F10 | | |
| G9 | G11 | G12 |
| G10 | | |
| H9 | H11 | H12 |
| H10 | | |

| | |
|--------|--------|
| R01C01 | R01C03 |
| R01C02 | R01C04 |
| R02C01 | R02C03 |
| R02C02 | R02C04 |
| R03C01 | R03C03 |
| R03C02 | R03C04 |
| R04C01 | R04C03 |
| R04C02 | R04C04 |
| R05C01 | R05C03 |
| R05C02 | R05C04 |
| R06C01 | R06C03 |
| R06C02 | R06C04 |
| R07C01 | R07C03 |
| R07C02 | R07C04 |
| R08C01 | R08C03 |
| R08C02 | R08C04 |

Barcode: 4466836009

Scanner ID: _____

Image Date: _____

INT Plate

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| B | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| C | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| E | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| F | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| G | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| H | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

Barcode: 1123456789-INT

INT Plate Barcode: _____
 or
 HYB Plate Barcode: _____

1 2 3 4 | 5 6 7 8 | 9 10 11 12

BC #1 BC #2 BC #3