

minutes.

TruSight Myeloid Sequencing Panel Checklist

For Research Use Only. Not for use in diagnostic procedures

Hybridize Oligo Pool

the HYP plate. \Box 2 Add 10 µl gDNA to each remaining well. Add 5 µl TSO to each well containing gDNA. Add 5 µl TSO to ACD1. Centrifuge at 1000 × g for 1 minute. \Box 6 Add 35 µl OHS2. Pipette to mix. Centrifuge at 1000 × g for 1 minute. $\square 8$ Place on the preheated heat block and incubate for 1 minute. Reset the temperature to 40°C and incubate for 80

Remove Unbound Oligos

Extend and Ligate Bound Oligos

□1 Add 5 μl ACD1 and 5 μl TE or water to 1 well of □1 Make sure that the heat block has cooled to 40°C. □1 Add 45 μl ELM4 to the FPU plate. Incubate at 37°C for 45 minutes. Remove from the heat block. Centrifuge at 1000 × g for 1 minute. Transfer each sample to the FPU plate. Cover and centrifuge at 2400 × g for 5 minutes. Wash 2 times with 45 µl SW1. Reassemble the FPU plate. Add 45 µl UB1. $\square 8$ \Box 9 Cover and centrifuge at 2400 × g for 5 minutes.



TruSight Myeloid Sequencing Panel Checklist

Amplify Libraries

$\Box 1$	12.		
$\square 2$	Arrange the Index 2 (i5) adapters in rows A–H.		
$\square 3$	Place the IAP plate on a TruSeq Index Plate		
	Fixture.		
$\Box 4$	Use a multichannel pipette to add 4 µl of each		
	Index 1 (i7) adapter to each row.		
$\Box 5$	Use a multichannel pipette to add 4 µl of each		
	Index 2 (i5) adapter to each column.		
$\Box 6$	Add 56 µl TDP1 to 2.8 ml PMM2.		
$\Box 7$			
$\square 8$	When incubation is complete, remove the		
	FPU plate from the incubator and remove the		
	seal.		
	Cover and centrifuge at 2400 × g for 5 minutes.		
□10	Use a multichannel pipette to add 25 µl 50 mM		
□11	NaOH to the filter plate.		
	Incubate at room temperature for 5 minutes.		
□12	Transfer 22 µl PMM2/TDP1 master mix to the		
□12	IAP plate.		
□13	Transfer samples eluted from the FPU plate to the IAP plate.		
$\Box 14$	Centrifuge at 1000 × g for 1 minute.		
	Transfer to the post-amplification area.		
	Perform PCR on a thermal cycler.		
SA	FE STOPPING POINT		
If	If you are stopping, leave the plate on the thermal		
cycler at 2°C to 8°C overnight.			

Clean Up Libraries

$\Box 1$	Centrifuge the IAP plate at 1000 × g for 1 minute.			
$\square 2$	Run an aliquot of libraries on 4% agarose gel (5			
	μl) or Bioanalyzer (1 μl).			
$\square 3$	Add 45 µl AMPure XP beads to the CLP plate.			
$\Box 4$	Transfer all the supernatant from the IAP plate to			
	the CLP plate.			
$\Box 5$	Shake at 1800 rpm for 2 minutes.			
$\Box 6$	Incubate at room temperature for 10 minutes.			
$\Box 7$	Place on a magnetic stand until liquid is clear.			
$\square 8$	Remove and discard all supernatant.			
□9	Wash 2 times with 200 µl 80% EtOH.			
$\Box 10$	Use a 20 µl pipette to remove residual EtOH.			
$\Box 11$	Remove from the magnetic stand and air-dry for			
	10 minutes.			
$\Box 12$	Add 30 µl EBT.			
$\Box 13$	Shake at 1800 rpm for 2 minutes.			
$\Box 14$	Incubate at room temperature for 2 minutes.			
$\Box 15$	Place on a magnetic stand until liquid is clear.			
$\Box 16$	Transfer 20 µl supernatant from the CLP plate to			
	the LNP plate.			
$\Box 17$	Centrifuge at 1000 × g for 1 minute.			
SA	SAFE STOPPING POINT			
If you are stopping, seal the plate and store at				
2°C to 8°C for up to 3 days. Alternatively, store at				

Normalize Libraries

e.	$\Box 1$	For 96 samples, add 4.4 ml LNA1 to a new 15 ml conical tube.
	□2	Use a P1000 pipette to resuspend LNB1.
		For 96 samples, transfer 800 µl LNB1 to the tube
to		of LNA1.
	$\Box 4$	Add the LNA1/LNB1 mix to a trough.
	$\Box 5$	Add 45 µl LNA1/LNB1 to the LNP plate.
	□6	Shake at 1800 rpm for 30 minutes.
	$\Box 7$	Place on a magnetic stand until liquid is clear.
	$\square 8$	Remove and discard all supernatant.
	□9	Remove from the magnetic stand.
	$\Box 10$	Wash 2 times with 45 µl LNW1.
r	$\Box 11$	Remove residual LNW1.
	$\Box 12$	Remove from the magnetic stand.
	$\Box 13$	Add 30 µl fresh 0.1 N NaOH.
	$\Box 14$	Shake at 1800 rpm for 5 minutes.
	$\Box 15$	Place the LNP plate on a magnetic stand until
		liquid is clear.
Ю	$\Box 16$	Add 30 µl LNS2 to the SGP plate.
	$\Box 17$	Transfer 30 μl supernatant from the LNP plate to
		the SGP plate.
	$\Box 18$	Centrifuge at 1000 × g for 1 minute.
	SA	FE STOPPING POINT
	If y	you are stopping, seal the plate and store at

-25°C to -15°C for up to 30 days.

-25°C to -15°C for up to 7 days.

TruSight Myeloid Sequencing Panel Checklist

Pool Libraries

- \Box 1 Transfer 5 µl to an 8-tube strip.
- \Box 2 Seal the plate and store at -25°C to -15°C.
- □ 3 Transfer the contents of the 8-tube strip to the PAL tube.
- □4 Denature and dilute pooled libraries to the loading concentration for the instrument you are using. See the denature and dilute libraries guide for your instrument.

Acronyms

Acronym	Definition
ACD1	Amplicon Control DNA 1
ACP1	Amplicon Control Oligo Pool 1
TSO	TruSight Oligos
CLP	Clean-up Plate
EBT	Elution Buffer with Tris
ELM4	Extension Ligation Mix 4
FPU	Filter Plate Unit
HT1	Hybridization Buffer
HYP	Hybridization Plate
IAP	Index Amplification Plate
LNA1	Library Normalization Additives 1
LNB1	Library Normalization Beads 1
LNP	Library Normalization Plate
LNS2	Library Normalization Storage Buffer 2
LNW1	Library Normalization Wash 1
OHS2	Oligo Hybridization for Sequencing Reagent 2
PAL	Pooled Amplicon Library