

Shasta™ Long Indexing Primer Set - A

Catalog No.
640283

Amount
1 chip

Lot Number
Specified on product label.

Description

Shasta Long Indexing Primer Set - A consists of one 384-well plate containing 72 forward and 72 reverse index primers, prealiquoted and dried down for more convenient storage. Primer quantities are sufficient to process samples on one nanowell chip. These primers are used in the protocols for Shasta Total RNA-Seq Kit - 2 Chip and Shasta Whole-Genome Amplification Kit - 2 Chip protocols but can also be resuspended to custom concentrations for user-generated protocols.

Package Contents

- 1 plate Shasta Long Indexing Primer Set - A (0.05 nmol/primer/well, 384-well plate format)
- 1 item Plate Sealing Film

Well position	Index (Forward)
A5	Shasta Long Forward Index 1
B5	Shasta Long Forward Index 2
C5	Shasta Long Forward Index 3
D5	Shasta Long Forward Index 4
E5	Shasta Long Forward Index 5
F5	Shasta Long Forward Index 6
G5	Shasta Long Forward Index 7
H5	Shasta Long Forward Index 8
I5	Shasta Long Forward Index 9
J5	Shasta Long Forward Index 10
K5	Shasta Long Forward Index 11
L5	Shasta Long Forward Index 12
M5	Shasta Long Forward Index 13
N5	Shasta Long Forward Index 14
O5	Shasta Long Forward Index 15
P5	Shasta Long Forward Index 16
A6	Shasta Long Forward Index 17
B6	Shasta Long Forward Index 18
C6	Shasta Long Forward Index 19
D6	Shasta Long Forward Index 20
E6	Shasta Long Forward Index 21
F6	Shasta Long Forward Index 22
G6	Shasta Long Forward Index 23
H6	Shasta Long Forward Index 24
I6	Shasta Long Forward Index 25
J6	Shasta Long Forward Index 26
K6	Shasta Long Forward Index 27

Well position	Index (Reverse)
A13	Shasta Long Reverse Index 1
B13	Shasta Long Reverse Index 2
C13	Shasta Long Reverse Index 3
D13	Shasta Long Reverse Index 4
E13	Shasta Long Reverse Index 5
F13	Shasta Long Reverse Index 6
G13	Shasta Long Reverse Index 7
H13	Shasta Long Reverse Index 8
I13	Shasta Long Reverse Index 9
J13	Shasta Long Reverse Index 10
K13	Shasta Long Reverse Index 11
L13	Shasta Long Reverse Index 12
M13	Shasta Long Reverse Index 13
N13	Shasta Long Reverse Index 14
O13	Shasta Long Reverse Index 15
P13	Shasta Long Reverse Index 16
A14	Shasta Long Reverse Index 17
B14	Shasta Long Reverse Index 18
C14	Shasta Long Reverse Index 19
D14	Shasta Long Reverse Index 20
E14	Shasta Long Reverse Index 21
F14	Shasta Long Reverse Index 22
G14	Shasta Long Reverse Index 23
H14	Shasta Long Reverse Index 24
I14	Shasta Long Reverse Index 25
J14	Shasta Long Reverse Index 26
K14	Shasta Long Reverse Index 27

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Certificate of Analysis

Cat. No. 640283

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Well position	Index (Forward)
L6	Shasta Long Forward Index 28
M6	Shasta Long Forward Index 29
N6	Shasta Long Forward Index 30
O6	Shasta Long Forward Index 31
P6	Shasta Long Forward Index 32
A7	Shasta Long Forward Index 33
B7	Shasta Long Forward Index 34
C7	Shasta Long Forward Index 35
D7	Shasta Long Forward Index 36
E7	Shasta Long Forward Index 37
F7	Shasta Long Forward Index 38
G7	Shasta Long Forward Index 39
H7	Shasta Long Forward Index 40
I7	Shasta Long Forward Index 41
J7	Shasta Long Forward Index 42
K7	Shasta Long Forward Index 43
L7	Shasta Long Forward Index 44
M7	Shasta Long Forward Index 45
N7	Shasta Long Forward Index 46
O7	Shasta Long Forward Index 47
P7	Shasta Long Forward Index 48
A8	Shasta Long Forward Index 49
B8	Shasta Long Forward Index 50
C8	Shasta Long Forward Index 51
D8	Shasta Long Forward Index 52
E8	Shasta Long Forward Index 53
F8	Shasta Long Forward Index 54
G8	Shasta Long Forward Index 55
H8	Shasta Long Forward Index 56
I8	Shasta Long Forward Index 57
J8	Shasta Long Forward Index 58
K8	Shasta Long Forward Index 59
L8	Shasta Long Forward Index 60
M8	Shasta Long Forward Index 61
N8	Shasta Long Forward Index 62
O8	Shasta Long Forward Index 63
P8	Shasta Long Forward Index 64
A9	Shasta Long Forward Index 65
B9	Shasta Long Forward Index 66
C9	Shasta Long Forward Index 67
D9	Shasta Long Forward Index 68
A10	Shasta Long Forward Index 69
B10	Shasta Long Forward Index 70
C10	Shasta Long Forward Index 71
D10	Shasta Long Forward Index 72

Well position	Index (Reverse)
L14	Shasta Long Reverse Index 28
M14	Shasta Long Reverse Index 29
N14	Shasta Long Reverse Index 30
O14	Shasta Long Reverse Index 31
P14	Shasta Long Reverse Index 32
A15	Shasta Long Reverse Index 33
B15	Shasta Long Reverse Index 34
C15	Shasta Long Reverse Index 35
D15	Shasta Long Reverse Index 36
E15	Shasta Long Reverse Index 37
F15	Shasta Long Reverse Index 38
G15	Shasta Long Reverse Index 39
H15	Shasta Long Reverse Index 40
I15	Shasta Long Reverse Index 41
J15	Shasta Long Reverse Index 42
K15	Shasta Long Reverse Index 43
L15	Shasta Long Reverse Index 44
M15	Shasta Long Reverse Index 45
N15	Shasta Long Reverse Index 46
O15	Shasta Long Reverse Index 47
P15	Shasta Long Reverse Index 48
A16	Shasta Long Reverse Index 49
B16	Shasta Long Reverse Index 50
C16	Shasta Long Reverse Index 51
D16	Shasta Long Reverse Index 52
E16	Shasta Long Reverse Index 53
F16	Shasta Long Reverse Index 54
G16	Shasta Long Reverse Index 55
H16	Shasta Long Reverse Index 56
I16	Shasta Long Reverse Index 57
J16	Shasta Long Reverse Index 58
K16	Shasta Long Reverse Index 59
L16	Shasta Long Reverse Index 60
M16	Shasta Long Reverse Index 61
N16	Shasta Long Reverse Index 62
O16	Shasta Long Reverse Index 63
P16	Shasta Long Reverse Index 64
A17	Shasta Long Reverse Index 65
B17	Shasta Long Reverse Index 66
C17	Shasta Long Reverse Index 67
D17	Shasta Long Reverse Index 68
A18	Shasta Long Reverse Index 69
B18	Shasta Long Reverse Index 70
C18	Shasta Long Reverse Index 71
D18	Shasta Long Reverse Index 72

Storage Conditions

- Store at room temperature.

Expiration Date

- Specified on product label.

Shipping Conditions

- Room temperature

Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://www.takarabio.com/manuals)

Quality Control Data

All index primers were verified by ESI analysis to have a major peak with a measured molecular weight within 10 Da of the predicted molecular weight.

A sample kit from each lot was tested on the ICELL8® cx Single-Cell System to ensure that all 144 indexes (72 forward and 72 reverse) were in the correct wells in plates by using each index three times in the following procedure:

15 pg of Control gDNA was dispensed into 216 nanowells and subjected to DNA extraction, preamplification PCR with 12 cycles, and amplification PCR with four and seven cycles, as described in the Shasta Whole-Genome Amplification Kit User Manual. The PCR product was collected from the chip, purified with NucleoMag NGS Clean-up and Size Select (Takara Bio, Cat. No. 744970.50) and eluted in 20 µl of Elution Buffer.

The library was quantified by qPCR with a Library Quantification Kit (Takara Bio, Cat. No. 638324), denatured, and sequenced on an Illumina® NextSeq® 550 sequencer using the NextSeq 500/550 Mid Output Kit v2.5 150 Cycles (Illumina, #20024904) as follows: Read 1 = 76 cycles, Read 2 = 76 cycles, Forward index (i5) = 8 cycles, and Reverse index (i7) = 8 cycles.

The yield of the resulting library was ≥ 200 ng, determined using a Qubit dsDNA HS Assay Kit (Life Technologies, Q32854) on a Qubit 2.0 Fluorometer (Thermo Fisher Scientific, Cat. No. Q32866).

The sequencing reads were demultiplexed and counted using Cogent NGS™ Analysis Pipeline (Takara Bio). The average number of reads per index was calculated and confirmed to be within a 10-fold difference in >98% of indexes. In addition, the average number of reads from the negative controls (without gDNA) was confirmed to be <3% reads.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.



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STATEMENT 326

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