



# Product insert

## NxSeq Single-cell RNA-seq Beads

For Research Use Only. Not for use in diagnostic procedures.

### 1. Introduction

The NxSeq™ Single-cell RNA-seq Beads contain a covalently attached library of barcoded oligo-dT capture oligonucleotides to enable single-cell mRNA sequencing experiments. Every bead-attached oligo bead contains a 12 base, bead-specific barcode, a 14 base unique molecular identifier (UMI) that is distinct between oligos, and a 3' 30 base oligo-dT mRNA capture sequence. The structure of each bead and oligo sequence is as follows:

Bead – Linker –

5' - TTTTTTAAAGCAGTGGTATCAACGCAGAGTACJJJJJJJJJJNNNNNNNNNNNNNV<sub>T<sub>30</sub></sub> - 3'

J represents the bead barcode

N represents the 13 base UMI

V represents a non-dT base at position 14 of the UMI

T<sub>30</sub> represents the 30 base oligo-dT capture sequence

Please note that the NxSeq Beads contain an extended UMI of N13V (14 bases) compared to other commercially available beads. As such, adjust Read 1 length of your RNA sequencing accordingly.

### 2. Product designations and kit components

Cat no.	Description	Size	Unit
NX-SCB-1	NxSeq Single-cell RNA-seq Beads	33 mg, 3 million beads	Each

### 3. Bead re-suspension

When re-suspending the beads, use gentle flicking or pipetting of the solution. DO NOT VORTEX. Prior to use, wash the NxSeq Beads twice with 1 mL 100% ethanol, and then twice with 1 mL TE/TW (10 mM Tris pH 8.0, 1 mM EDTA, 0.01% Tween). Re-suspend the washed beads to the desired concentration in TE/TW.

### 4. Recommended storage conditions

Store dry beads at -15 to -25 °C. Store beads re-suspended in TE/TW at +2 to +8 °C. Re-suspended beads are stable for one month.

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