

NGS: RNA Seq

Advanced sequencing for
complete transcriptome insights

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Long Read RNA-Seq

SMART-Seq mRNA Long Read

- Ultra-low inputs & Single Cells: 10 pg–100 ng total RNA or 1–1,000 intact cells
- Reliably obtain uniform gene-body coverage, Long Read sequencing libraries; detect gene fusions.
- Detect complete, full-length transcripts (up to 8 kb) with accurate strand orientation
- Compatible with ONT MinION or PromethION, PacBio's SMRTbell prep kit 3.0, PacBio Vega™, Revio®, and Sequel® II systems.



Full-length mRNA +/- UMIs

SMART-Seq mRNA LP

- Single Cell: direct input of single cells isolated by FACS or other methods
- Low Input: 10 pg–100 ng total RNA, or 1–1,000 cells
- Identify the highest number of genes; detect gene fusions, isoforms, SNPs



Total RNA-seq—stranded whole transcriptome sequencing +/- UMIs

SMART-Seq Total RNA-Seq (ZapR Mammalian)

- Single Cell: 1–1,000 sorted cells or 10 pg–10 ng of purified total RNA
- Low Input: 250 pg–1 µg of total RNA from human, mouse, or rat
- RIN 2–10, DV200 >25%
- Illumina sequencing-ready libraries in ~6.5 hours
- Reproducible data from RNA of any quality (including FFPE and LCM samples and cell-free RNA)
- Retains Strand Information



Total RNA

CODE	DESCRIPTION	SIZE	LIST PRICE	PROMO PRICE
635045	SMART-Seq® Total RNA High Input (RiboGone™ Mammalian)	4 x 96 Rxns	\$47,923	\$28,394
635046	SMART-Seq® Total RNA High Input (RiboGone™ Mammalian)	24 Rxns	\$4,932	\$2,959
635047	SMART-Seq® Total RNA High Input (RiboGone™ Mammalian)	96 Rxns	\$12,923	\$7,754
635048	SMART-Seq® Total RNA Mid Input	4 x 96 Rxns	\$33,655	\$20,193
635049	SMART-Seq® Total RNA Mid Input	24 Rxns	\$2,870	\$1,722
635050	SMART-Seq® Total RNA Mid Input	96 Rxns	\$9,311	\$5,587
634356	SMART-Seq® Total RNA Library Prep with ZapR® Depletion (with UMIs)	4 x 96 Rxns	\$51,349	\$30,809
634354	SMART-Seq® Total RNA Library Prep with ZapR® Depletion (with UMIs)	24 Rxns	\$5,081	\$3,049
634355	SMART-Seq® Total RNA Library Prep with ZapR® Depletion (with UMIs)	96 Rxns	\$14,158	\$8,495
634359	SMART-Seq® Total RNA Library Prep with ZapR® Depletion	4 x 96 Rxns	\$47,616	\$28,570
634357	SMART-Seq® Total RNA Library Prep with ZapR® Depletion	24 Rxns	\$4,844	\$2,906
634358	SMART-Seq® Total RNA Library Prep with ZapR® Depletion	96 Rxns	\$13,225	\$7,935
634362	SMART-Seq® Total RNA Single Cell Library Prep with ZapR® Depletion	4 x 96 Rxns	\$49,681	\$29,809
634360	SMART-Seq® Total RNA Single Cell Library Prep with ZapR® Depletion	24 Rxns	\$5,028	\$3,017
634361	SMART-Seq® Total RNA Single Cell Library Prep with ZapR® Depletion	96 Rxns	\$13,780	\$8,268

mRNA

CODE	DESCRIPTION	SIZE	LIST PRICE	PROMO PRICE
634762	SMART-Seq® mRNA LP (with UMIs)	24 Rxns	\$3,853	\$2,312
634765	SMART-Seq® mRNA LP (with UMIs)	96 Rxns	\$13,288	\$7,973
634766	SMART-Seq® mRNA LP (with UMIs)	4 x 96 Rxns	\$49,522	\$29,713
634768	SMART-Seq® mRNA LP	24 Rxns	\$3,612	\$2,167
634769	SMART-Seq® mRNA LP	96 Rxns	\$12,299	\$7,379
634771	SMART-Seq® mRNA LP	4 x 96 Rxns	\$45,882	\$27,529
634786	SMART-Seq® mRNA Single Cell LP	24 Rxns	\$3,731	\$2,239
634787	SMART-Seq® mRNA Single Cell LP	96 Rxns	\$12,704	\$7,622
634788	SMART-Seq® mRNA Single Cell LP	4 x 96 Rxns	\$47,404	\$28,442

UDIs

634752	Unique Dual Index Kit (1–96)	96 Rxns	\$1,944	\$1,166
634753	Unique Dual Index Kit (97–192)	96 Rxns	\$1,944	\$1,166
634754	Unique Dual Index Kit (193–288)	96 Rxns	\$1,944	\$1,166
634755	Unique Dual Index Kit (289–384)	96 Rxns	\$1,944	\$1,166
634756	Unique Dual Index Kit (1–24)	24 Rxns	\$740	\$444

Long Read

634377	SMART-Seq® mRNA Long Read	24 Rxns	\$2,939	\$1,763
634376	SMART-Seq® mRNA Long Read	96 Rxns	\$10,078	\$6,047

Immune Profiling

Deep insights into TCR & BCR diversity

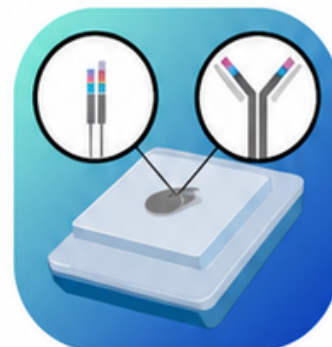
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TCR and BCR sequences from human FFPE RNA

MaxiSeq Human FFPE TCR+BCR (with UMIs)

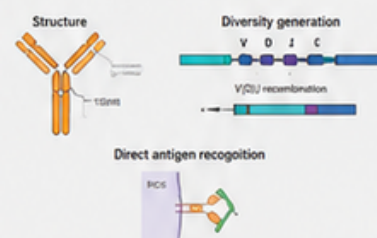
- One precious sample, 2 results
- Sequencing-ready libraries for both TCR & BCR sequences from human FFPE RNA
- Capture CDR3 sequences for human TCR chains (TRA, TRB, TRG, TRD), BCR heavy chains (IgG, IgM, IgA, IgD, and IgE), and light chains (IgK and IgL)
- Sample Input: 200 ng–1 µg of FFPE RNA
- Varying quality RNA (RIN ≥4, DV200 ≥40%)



BCR – Human and Mouse

- Complete BCR repertoire profiling: (BCR) heavy (IgG/M/D/A/E) and light (IgK/L) chains
- RNA Input: 10 ng to 1 µg of high-integrity (RIN >8) total RNA from PBMCs (10 ng–1 µg), purified B cells (1–100 ng), spleen or bone marrow (10 ng), or whole blood (100 ng).
- Flexible: sequence either the full-length V(D)J region or the CDR3 only and multiplex with up to 384 UDIs

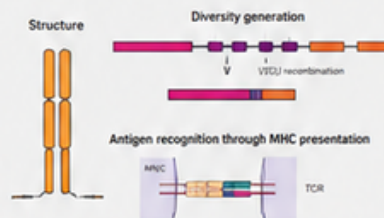
B-CELL RECEPTORS (BCRs)



TCR – Human and Mouse

- Single Cells: SMARTer Human scTCR α/β Profiling Kit—elucidate alpha-beta chain pairings of T-cell receptors in single cells
- Low Input: 10 ng to 1 µg of total RNA obtained from peripheral blood leukocytes, whole blood, purified T cells. (RIN ≥8)
- Flexibility to sequence on any Illumina instrument
- Full-length V(D)J analysis or CDR3-only analysis

T-CELL RECEPTORS (TCRs)



Immune Profiling Poster:

Outlines key factors to consider when designing your NGS-based immune profiling assays: [Click Here](#) to access

Versatile

Use for various FF and FFPE samples with a wide range of input amounts (200 ng – 1 µg)

Affordable

Save with 2 assays from one sample
TCR+BCR from a single sample = Cost savings

Sensitive

Discover MORE subclones with low input samples without increasing false positives

Get sequencing-ready libraries with only ~1.5 hr hands-on time!



CLICK
HERE



Immune Profiling

CODE	DESCRIPTION	SIZE	LIST PRICE	PROMO PRICE
634776	SMART-Seq® Human BCR (with UMIs)	4 x 96 Rxns	\$58,336	\$35,002
634777	SMART-Seq® Human BCR (with UMIs)	24 Rxns	\$4,517	\$2,710
634778	SMART-Seq® Human BCR (with UMIs)	96 Rxns	\$16,004	\$9,602
634779	SMART-Seq® Human TCR (with UMIs)	4 x 96 Rxns	\$58,317	\$34,990
634780	SMART-Seq® Human TCR (with UMIs)	24 Rxns	\$4,517	\$2,710
634781	SMART-Seq® Human TCR (with UMIs)	96 Rxns	\$16,004	\$9,602
634814	SMART-Seq® Mouse TCR (with UMIs)	4 x 96 Rxns	\$58,336	\$35,002
634815	SMART-Seq® Mouse TCR (with UMIs)	24 Rxns	\$4,517	\$2,710
634816	SMART-Seq® Mouse TCR (with UMIs)	96 Rxns	\$16,004	\$9,602
634351	SMART-Seq® Mouse BCR (with UMIs)	4 x 96 Rxns	\$58,336	\$35,002
634352	SMART-Seq® Mouse BCR (with UMIs)	24 Rxns	\$4,517	\$2,710
634353	SMART-Seq® Mouse BCR (with UMIs)	96 Rxns	\$16,007	\$9,604
634386	MaxiSeq™ Human FFPE TCR+BCR (with UMIs)	24 Rxns	\$5,637	\$3,382
634387	MaxiSeq™ Human FFPE TCR+BCR (with UMIs)	96 Rxns	\$10,233	\$11,540

Immune Profiling

Deep insights into TCR & BCR diversity

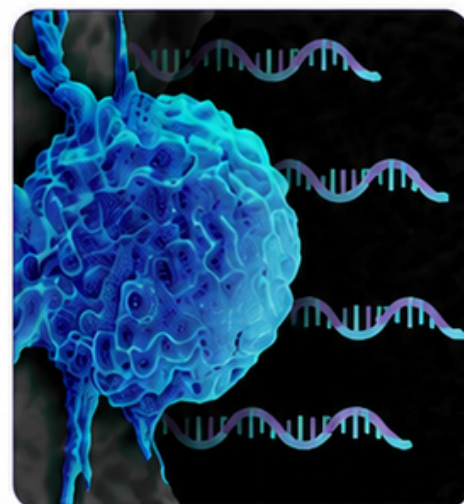
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Cell Preservation

Shasta® Total RNASeq Cell Fixation Kit

- Enable cell fixation and storage for up to 6 months prior to Total RNA-Seq library prep
- Achieve high-quality data from fixed cells comparable to fresh cells, enabling large-cohort and longitudinal studies
- Minimise cell loss during the handling process with an easy workflow



Bioinformatics Resources

[Click Here](#) to find out which Takara Bio tools are compatible with your Takara Bio reagent kit, organised by experimental type.



Shasta and ICELL8 cx application compatibility



mRNA-seq kit compatibility



Total RNA-seq kit compatibility



Immune profiling kit compatibility

Cell Fixation

CODE	DESCRIPTION	SIZE	LIST PRICE	PROMO
640303	Shasta® Total RNA-Seq Cell Fixation Kit	12 Samples	\$834	\$500



Promotion Code: RNASEQQ326 Offer valid until **October 31st, 2026**

All items must be of the same catalogue number. No mixing and matching.
GST and freight charges apply.
Research Use Only unless specified as GMP Grade.

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