DriverMap™ DirectCell™ Gene Expression Profiling Application

Directly extract RNA and profile gene expression from cells in 96- and 384-well microtiter plates.

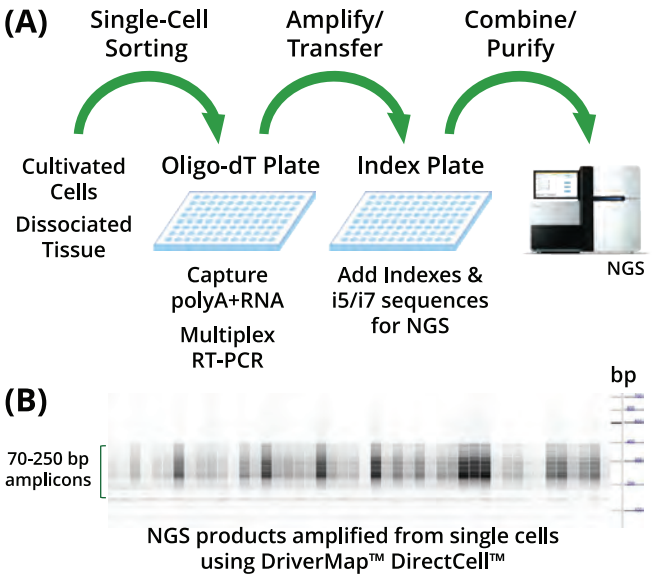
- Incubate cell lysate in poly-A+ wells, wash, then run DriverMap RT-PCR assay
- Save time with no transfers, precipitations, or columns
- Obtain robust profiles, even from individual cells

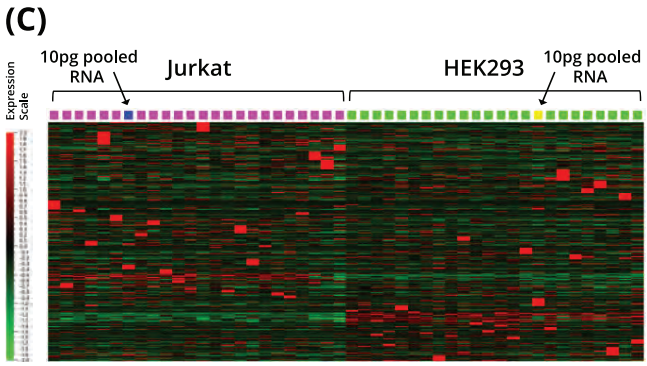
As a PCR-based approach, the DriverMap expression profiling method generates robust data from very small amounts of RNA. This makes the DriverMap Assay ideal for direct use with mRNA retrieved by hybridization to immobilized poly-A+ oligonucleotides in microtiter wells. Just incubate cell lysate in wells of standard commercially- available poly-A+ derivatized plates, wash out the lysate, and then run the DriverMap RT-PCR procedure in the same wells. No additional transfers, precipitation, centrifuging, or washes required.

- Go directly from cell assays to RNA profiling without cumbersome RNA extraction
- Extract RNA and profile from small samples without columns or precipitation
- Profile FACS-sorted individual cells directly in collection plate

All the benefits of DriverMap Expression Profiling combined with simple plate-based RNA isolation.

In a single-tube multiplex reaction, the DriverMap assay targets and amplifies a short segment of the RNA transcript for all human protein-coding genes. These 19,000 amplified sequences are then run on NGS to assess their relative abundance. The levels of each amplicon directly correlate with target gene expression, so the sequencing reads can be directly aligned to the amplicon reference sequences obviating the need for sophisticated genome alignment analysis.





Panel A: Cell lysates from sorted individual cells placed in a multi-well plate with oligo-dT coated wells. After incubation, wells are washed, and captured RNA is used for DriverMap RNA Profiling assay.

Panel B: PCR products after DriverMap assay amplification.

Panel C: DriverMap expression profiles for each well.

Order the kits directly at www.cellecta.com/e-shop, or contact us at info@cellecta.com or +1-650-938-3910.

Catalog #	Item Description	Amount
DM2-HGW	DriverMap Human Genome-Wide Expression Profiling Kit, V2 (24 multiplex)	1 kit (for 24 samples)
DM2-HGW-96	DriverMap Human Genome-Wide Expression Profiling Kit, V2 (96 multiplex)	1 kit (for 96 samples)