

DNA-PAINT CELLS SLIDE

MASSIVE-Cells 2-PLEX

Expiration after 6 months

(For research use only)

CONTENT

STABLE-CELLS SLIDE

- Cell line: **U2OS Nup96-mEGFP**

Labeled targets:

- Target 1: **Vimentin**
- Target 2: **Mitochondria (TOM20)**

Secondary single domain antibody information:

- Vimentin: sdAB anti-mouse kLc + FAST docking site F1
- Mitochondria: sdAB anti-rabbit IgG + FAST docking site F2

Imager Concentration:

- Imager F1 ATTO 655 at 750 pM
- Imager F2 Cy3B at 750 pM
- Storage: 2-8 °C protected from light.

Please follow the slide sealing instructions below for optimal storage conditions.

Fiducial Markers

- 90 nm gold nanoparticles distributed evenly across the surface of the slide.

IMAGERS

- **Imager F1** ATTO 655
- **Imager F2** Cy3B
- Concentration: 1 μ M in TE buffer (10 mM Tris, 1 mM EDTA, pH 8)
- Volume: 300 μ L
- Storage: -20 °C (1 μ M imager solutions are stable for multiple freeze-and-thaw cycles)
Optional: Prepare 50 μ L aliquots and store at -20 °C. Working aliquots can be stored at 4 °C for short-term or -20 °C for long term

Note: Further dilutions should be prepared fresh before use. Low imager concentrations are not stable in plastic tubes.

BUFFERS

- **Imaging buffer**, 50 mL, store at room temperature

IMAGING PARAMETERS

- Exposure time: 75 ms
- Laser-Intensity: ~200 W/cm² (561 nm) and ~300 W/cm² (640 nm). This intensity might vary due to different illumination depths/modes (TIRF/HILO). For dense targets we recommend increasing the laser power to enhance blinking.
- Number of frames: 15,000
- Temperature: The slide is optimized for image acquisition at 21 - 25 °C. At higher temperatures shorter exposure times and higher laser powers are required
- For further details (imager exchange, imaging conditions, etc.) check our **MASSIVE-Cells 2-PLEX information sheet** .

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