Thermo SCIENTIFIC

AB-0576 / v3 / 0607

Gene Frame®

Description:

Gene Frame® has been developed by ABgene® for *in situ* procedures. The gas-tight sealing system can withstand temperatures of up to 97°C and prevents reagent loss due to evaporation, thus improving reliability of *in situ* hybridisation and *in situ* amplification. Gene Frame® has been designed for use with standard microscope slides can allow up to 5 samples to be processed simultaneously. Packaged under cleanroom conditions, Gene Frame® can be autoclaved or sterilised by UV irradiation.

The adhesives on either side of the frames are of differing strengths. The side which adheres to the glass slide has an easy release adhesive whereas the reverse, which sticks to the coverslip, forms a stronger bond. This means that when the coverslip is removed, due to the disparity in the strengths of the different adhesives, the frame is removed simultaneously with no sticky residue being left behind on the slide.

Ordering Information:

AB-0576	Gene Frame® 25µl (1.0 x 1.0 cm)	100 frames and standard coverslips
AB-0577	Gene Frame® 65µl (1.5 x 1.6 cm)	100 frames and standard coverslips
AB-0578	Gene Frame® 125µl (1.7 x 2.8 cm)	100 frames and standard coverslips
AB-0630	Gene Frame® 300µl (1.9 x 6.0 cm)	100 frames and large coverslips
AB-1244	Multiwell Gene Frame® 50µl/well (each well 1.9 x 1.0 cm)	100 frames (500 wells) and large coverslips
AB-0611	Standard coverslips	100 coverslips
AB-0611L	Large coverslips	100 coverslips

Each Gene Frame® and Multiwell Gene Frame® pack is supplied with 100 coverslips.

For Research Purposes Only

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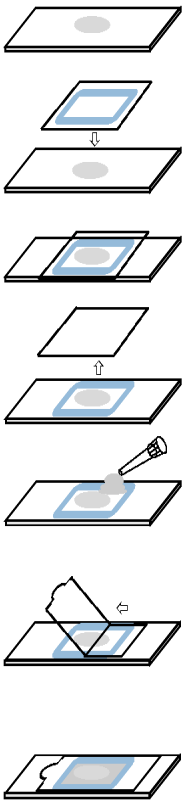
Protocol:



1. Ensure that the surface of the slide that will come in contact with the adhesive frame is both dry and clean. If the Gene Frame® is likely to lie over any part of the tissue section, it may be necessary to scrape that section away to improve the adhesive bond on the glass.

2. Separate an individual frame from a strip of frames by tearing along the perforations. Each frame is sandwiched between a thin polyester sheet and a thick polyester sheet that has the centre square removed. Carefully remove the thick polyester sheet (with the centre square removed), ensuring that the frame remains bound to the thin polyester sheet. With the slide on a flat surface lay it over the section, taking care not to touch the exposed adhesive surface. Press the frame(s) down firmly, trying not to trap any air under the adhesive.

3. Applying the frame or sheet of frames to the slide the day before it is to be used will improve the adhesion. However, if this is not possible, heat the newly affixed slide for 4–5 minutes at 94°C and then press the frame or sheet of frames down firmly again with a blunt instrument.

4. Remove the thin polyester backing sheet from the frame or sheet of frames.

5. Pipette the appropriate volume of reagent (25µl, 65µl, 125µl or 300µl) at one end of the frame. For the Multiwell Gene Frame®, pipette 50µl of reagent at one end of each well.

6. Carefully place the polyester coverslip over the Gene Frame® at the end where the reagent has been pipetted. Slowly press the cover over the frame, applying pressure from one end and gradually moving across to the other. If care is taken, the bead of reagent will spread out evenly within the frame or within each well without trapping air. The slight reagent excess is then squeezed out between the adhesive and the coverslip preventing air entrapment. This does not affect the adhesion of the frame to the coverslip.

7. Once in place, press down evenly on the slide for 10 seconds. Turn the slide over and, with a blunt instrument, press the cover down on the adhesive around the edge of the frame. The Gene Frame® is now ready to use.

8. After the heat treatment, remove the Gene Frame® by holding down the slide with one hand and pulling back the tab of the coverslip along the same plane as the slide. The process is greatly facilitated by an initial razorblade cut to break the adhesive bond along the edge to be lifted first. Once the Gene Frame® has been removed, your sample is ready for analysis.

NB. We recommend the addition of 50µg/ml BSA (bovine serum albumen) to enzyme reactions carried out using Gene Frame®.

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