



Product Information

GATTA-PAINT 3D Nanoruler

Verify the resolution of your 3D localization-based microscope

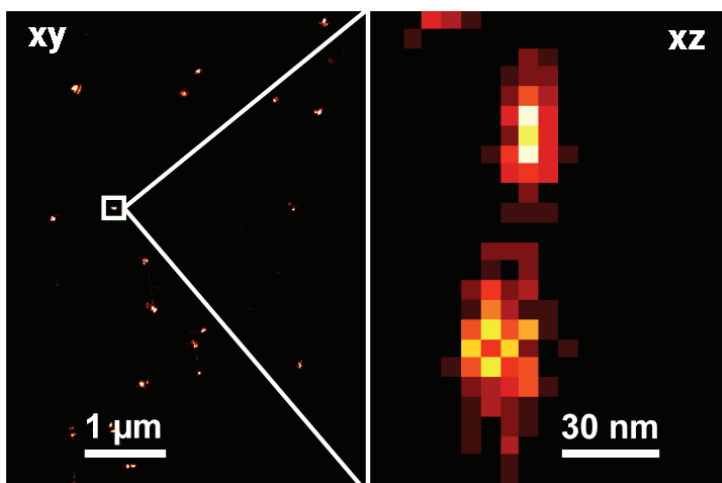
3D nanorulers from the GATTA-PAINT series are the ideal resolution rulers for any type of 3D localization-based super-resolution microscope. Due to the mechanism, which provides the blinking kinetics based on the DNA-PAINT technology, the samples are nearly free of photo bleaching. The samples consist of two spots or rings oriented in axial direction to study the resolution capabilities in z.

We offer the GATTA-PAINT 3D nanorulers in two versions:

- GATTA-PAINT 3D HiRes 80R Expert Line
- GATTA-PAINT 3D 30R Ultimate Line

The **GATTA-PAINT 3D HiRes 80R Expert Line** is a nanoruler with two spots separated by 80 nm. For DNA-PAINT imaging we use ATTO 655 imagers. Further the ruler contains DNA-PAINT-based fiducial markers known from our HiRes series to support drift-correction. More information can be found in Schmied, J. J. et al. DNA origami nanopillars as standards for three-dimensional superresolution microscopy. Nano Lett 13, 781–785 (2013).

The **GATTA-PAINT 3D 30R Ultimate Line** is a nanoruler with two rings with a distance of 30 nm, with each ring having a diameter of 23 nm.



GATTA-PAINT 3D 80R

Super-resolution image of a GATTA-PAINT 3D 80R Expert Line nanoruler. Zoom-in shows the axial direction (xz plot).

Product properties

GATTA-PAINT 3D Nanoruler

Single-color nanorulers for localization based 3D super-resolution microscopy



	GATTA-PAINT 3D HiRes 80R
Color	red
Fluorophore	ATTO 655
Recommended laser source	630–650 nm
Surface density nanoruler	$\approx 1/\mu\text{m}^2$
Surface density fiducial marker	$\approx 0.1/\mu\text{m}^2$
Distance axial	80 nm



	GATTA-PAINT 3D 30R
Color	red
Fluorophore	ATTO 655
Recommended laser source	630–650 nm
Surface density	$\approx 1/\mu\text{m}^2$
Distance axial	30 nm
Ring diameter	23 nm

Product questions?

Contact

In case you should need further assistance please feel free to contact us.
We are happy to help.

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