



Product notification

Visium Fresh Frozen and Visium for FFPE

We have identified a variance in the manufacturing of slides for the Visium Fresh Frozen and Visium for FFPE product lines that can sometimes lead to a noticeable variance in the total UMIs captured for a few spots in each capture area. Fewer than 3% of total spots in a given capture area are impacted. The root cause is variability in a specific lot of the barcoded oligo input material. Because the affected oligos are in consistent locations of a 96-well plate used for printing spots on the slide, the location of impacted spots is also consistent across slides and capture areas, and occur in 4x3 spot clusters. In most cases, data generated from these spots are not impacted at a detectable level. However, in some cases, the affected spots have higher or lower total UMI counts than neighboring spots, and these results are noticeable in total UMI visualizations.

We have evaluated the impact of this variance, and our testing indicates that the distribution of genes collected from the affected spots is proportional to neighboring, unaffected spots. Thus, for most applications, this variance is not likely to impact biological interpretations. In applications where this difference in sensitivity is important, the shift in total UMIs detected is usually small enough (~10–30%) for most affected spots that the data can be normalized to account for and eliminate this effect. We will be providing guidance to users on performing this normalization when desired. We have also updated our manufacturing processes to prevent this variance from occurring in future lots of Visium slides.

If you have any questions or believe you see this phenotype in your data, please contact support@10xgenomics.com.

Contact us

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