

FlashGel[®] System References

A list of product citations in current literature by application

PCR amplification/separations: use of FlashGel[®] Cassettes as tools to confirm success and correct size of amplicons following PCR amplification

Song, J. et al. (2020). Highly specific enrichment of rare nucleic acid fractions using *Thermus thermophilus argonaute* with applications in cancer diagnostics. *Nucleic Acids Research*, 48(4), e19-e19.

He, Z., Cole, K. D., and He, H. J. (2025). A novel immortalization method for immortalizing human primary CD8+ T cells by inserting a single copy of human telomerase reverse transcriptase via CRISPR/Cas9. *Tissue and Cell*, 102908.

Sinha, S. et al. (2025). Long read sequencing enhances pathogenic and novel variation discovery in patients with rare diseases. *Nature Communications*, 16(1), 2500.

Library sizing/evaluation: use of FlashGel[®] Cassettes to confirm size and quantity of library samples prepared for various NGS applications

Yang, H. et al. (2020). A map of cis-regulatory elements and 3D genome structures in zebrafish. *Nature*, 588(7837), 337-343.

Oben, B. et al. (2021). Whole-genome sequencing reveals progressive versus stable myeloma precursor conditions as two distinct entities. *Nature Communications*, 12(1), 1861.

Samanta, P., Cooke, S. F., McNulty, R., Hormoz, S., and Rosenthal, A. (2024). ProBac-seq, a bacterial single-cell RNA sequencing methodology using droplet microfluidics and large oligonucleotide probe sets. *Nature Protocols*, 19(10), 2939-2966.

Rocks, D., Jaric, I., Tesfa, L., Greally, J. M., Suzuki, M., and Kundakovic, M. (2022). Cell type-specific chromatin accessibility analysis in the mouse and human brain. *Epigenetics*, 17(2), 202-219.

DNA size/integrity: use of FlashGel[®] Cassettes to check size and integrity of DNA samples

Acun, A., Oganessian, R., Uygun, K., Yeh, H., Yarmush, M. L., and Uygun, B. E. (2021). Liver donor age affects hepatocyte function through age-dependent changes in decellularized liver matrix. *Biomaterials*, 270, 120689.

Meale, S. J., Popova, M., Saro, C., Martin, C., Bernard, A., Lagree, M., Yáñez-Ruiz, D. R., Boudra H., Duval S. and Morgavi, D. P. (2021). Early life dietary intervention in dairy calves results in a long-term reduction in methane emissions. *Scientific Reports*, 11(1), 3003.

RNA testing: use of FlashGel® Cassettes to assess presence and quality (i.e. lack of degradation) of RNA samples

Blakney, A. K., Deletic, P., McKay, P. F., Bouton, C. R., Ashford, M., Shattock, R. J., and Sabirsh, A. (2021). Effect of complexing lipids on cellular uptake and expression of messenger RNA in human skin explants. *Journal of Controlled Release*, 330, 1250-1261.

Martin, D. et al. (2022). Oxidative and glycolytic skeletal muscles deploy protective mechanisms to avoid atrophy under pathophysiological iron overload. *Journal of Cachexia, Sarcopenia and Muscle*, 13(2), 1250-1261.

Dasgupta, S., LaDu, J. K., Garcia, G. R., Li, S., Tomono-Duval, K., Rericha, Y., Huang L., and Tanguay, R. L. (2023). A CRISPR-Cas9 mutation in sox9b long intergenic noncoding RNA (slicnR) affects zebrafish development, behavior, and regeneration. *Toxicological Sciences*, 194(2), 153-166.

Recovery: use of FlashGel® Recovery Cassettes to recover samples for subsequent use (cloning or sequencing)

Tejada-Vaprio, R., Mosleh, I., Mukherjee, R. P., Aljewari, H., Fruchtl, M., Elmasheiti, A., and Beitle, R. (2020). Recombinant peptide fusion construction for protein-templated catalytic palladium nanoparticles. *Biotechnology Progress*, 36(3), e2956.

Alukumbura, A. S., Bigi, A., Sarrocco, S., Fernando, W. D., Vannacci, G., Mazzoncini, M., and Bakker, M. G. (2022). Minimal impacts on the wheat microbiome when *Trichoderma gamsii* T6085 is applied as a biocontrol agent to manage fusarium head blight disease. *Frontiers in Microbiology*, 13, 972016.

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