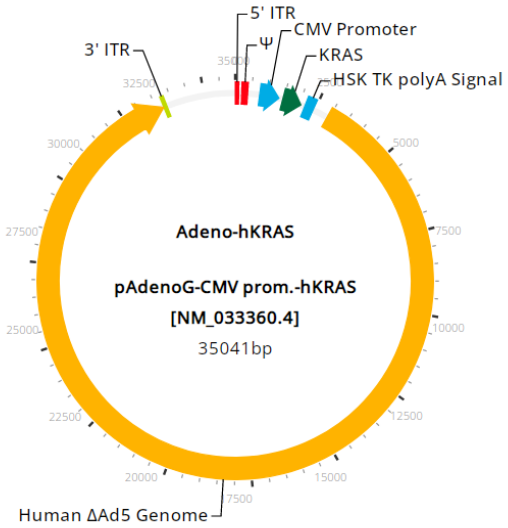
Genome-Wide Adenovirus Expression Library

Human, Mouse & Rat Gene Expression Viruses

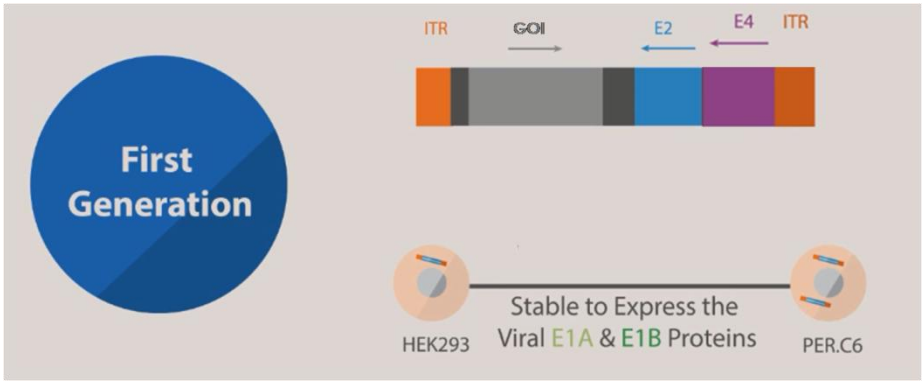
High-Performance Adenovirus for Every Gene of Interest

abm offers a comprehensive collection of human, mouse, and rat genes cloned and packaged into ready-to-use, replication-defective first generation Adenovirus type 5 (Ad5). Engineered with a strong CMV promoter, these constructs deliver rapid, high-level transient gene expression across a broad range of dividing and non-dividing cells. The collection includes numerous therapeutically relevant targets such as KRAS, EGFR, IL6, and TNF-a, enabling applications in functional genomics, pathway analysis, disease modeling, protein expression, and in vivo studies. With high transduction efficiency, episomal expression, and scalable high-titer production, **abm**'s adenovirus tools provide a reliable, high-performance solution trusted by researchers and validated in peer-reviewed, high-impact journals such as *Cell Metabolism*.



Key Advantages of the Adenovirus System for Gene Expression Studies

Feature	Advantages
Cell Type Tropism	Broad; dividing and non-dividing cells including primary cells
Genome Integration	No genomic integration, remains episomal for transient expression
Transduction Efficiency	High, with rapid and robust transgene expression
Cargo Capacity	Moderate capacity ~7-8 kb
Scalable Production	High-titer capable with well-established production workflows
In vivo Compatibility	Strong short-term in vivo expression
Technology	Well-characterized and widely adopted platform



First Generation Type 5 Adenovirus

abm uses a safer replication-defective adenovirus containing E1 and E3 deletions which prevents replication in normal cells. The adenovirus can only be propagated in a special E1 complementing cell line (e.g. HEK293 or PER.C6). E1 is replaced with the expression cassette allowing for strong transgene expression.

Format	Product	Concentration	Quantity
Virus	(Gene of Interest) Adenovirus	10^6 pfu/ml	1.0 ml
		10^{10} pfu/ml	2 x 1.0 ml
		10^{12} pfu/ml	5 x 200 µl

Learn more about our genome-wide expression collection at: https://www.abmgood.com/Adenovirus.html

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Top Publications

Cat. No.	Publication	Journal	Year
A144541	Bayati, A., Ayoubi, R., Aguila, A., Zorca, C. E., Deyab, G., Han, C., Recinto, S. J., Nguyen-Renou, E., Rocha, C., Maussion, G., Luo, W., Shlaifer, I., Banks, E., McDowell, I., Del Cid Pellitero, E., Ding, X. E., Sharif, B., Séguéla, P., Yaqubi, M., … McPherson, P. S. (2024). Modeling Parkinson's disease pathology in human dopaminergic neurons by sequential exposure to a-synuclein fibrils and proinflammatory cytokines. Nature Neuroscience, 27(12), 2401–2416. https://doi.org/10.1038/s41593-024-01775-4	Nature Neuroscience	2024
A136323 A211227	Zhu, X., Wang, Y., Soaita, I., Lee, H.-W., Bae, H., Boutagy, N., Bostwick, A., Zhang, R.-M., Bowman, C., Xu, Y., Trefely, S., Chen, Y., Qin, L., Sessa, W., Tellides, G., Jang, C., Snyder, N. W., Yu, L., Arany, Z., & Simons, M. (2023). Acetate controls endothelial-to-mesenchymal transition. Cell Metabolism, 35(7), 1163-1178.e10. https://doi.org/10.1016/j.cmet.2023.05.010	Cell Metabolism	2023
A111167	Gu, C., Wu, Y., Guo, H., Zhu, Y., Xu, W., Wang, Y., Zhou, Y., Sun, Z., Cai, X., Li, Y., Liu, J., Huang, Z., Yuan, Z., Zhang, R., Deng, Q., Qu, D., & Xie, Y. (2021). Protoporphyrin IX and verteporfin potently inhibit SARS-CoV-2 infection in vitro and in a mouse model expressing human ACE2. Science Bulletin, 66(9), 925–936. https://doi.org/10.1016/j.scib.2020.12.005	Science Bulletin	2021
A444365	Quijada, P., Trembley, M. A., Misra, A., Myers, J. A., Baker, C. D., Pérez-Hernández, M., Myers, J. R., Dirkx, R. A., Cohen, E. D., Delmar, M., Ashton, J. M., & Small, E. M. (2021). Coordination of endothelial cell positioning and fate specification by the epicardium. Nature Communications, 12(1). https://doi.org/10.1038/s41467-021-24414-z	Nature Communications	2021
A417165	Gui, J., Zahedi, F., Ortiz, A., Cho, C., Katlinski, K. V., Alicea-Torres, K., Li, J., Todd, L., Zhang, H., Beiting, D. P., Sander, C., Kirkwood, J. M., Snow, B. E., Wakeham, A. C., Mak, T. W., Diehl, J. A., Constantinos Koumenis, Ryeom, S. W., Stanger, B. Z., & Puré, E. (2020). Activation of p38a stress-activated protein kinase drives the formation of the pre-metastatic niche in the lungs. Nature Cancer, 1(6), 603–619. https://doi.org/10.1038/s43018-020-0064-0	Nature Cancer	2020
A131768 A132026	Dehnad, A., Fan, W., Jiang, J. X., Fish, S. R., Li, Y., Das, S., Mozes, G., Wong, K. A., Olson, K. A., Charville, G. W., Ali, M., & Török, N. J. (2020). AGER1 downregulation associates with fibrosis in nonalcoholic steatohepatitis and type 2 diabetes. The Journal of Clinical Investigation. https://doi.org/10.1172/jci133051	The Journal of Clinical Investigation	2020

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