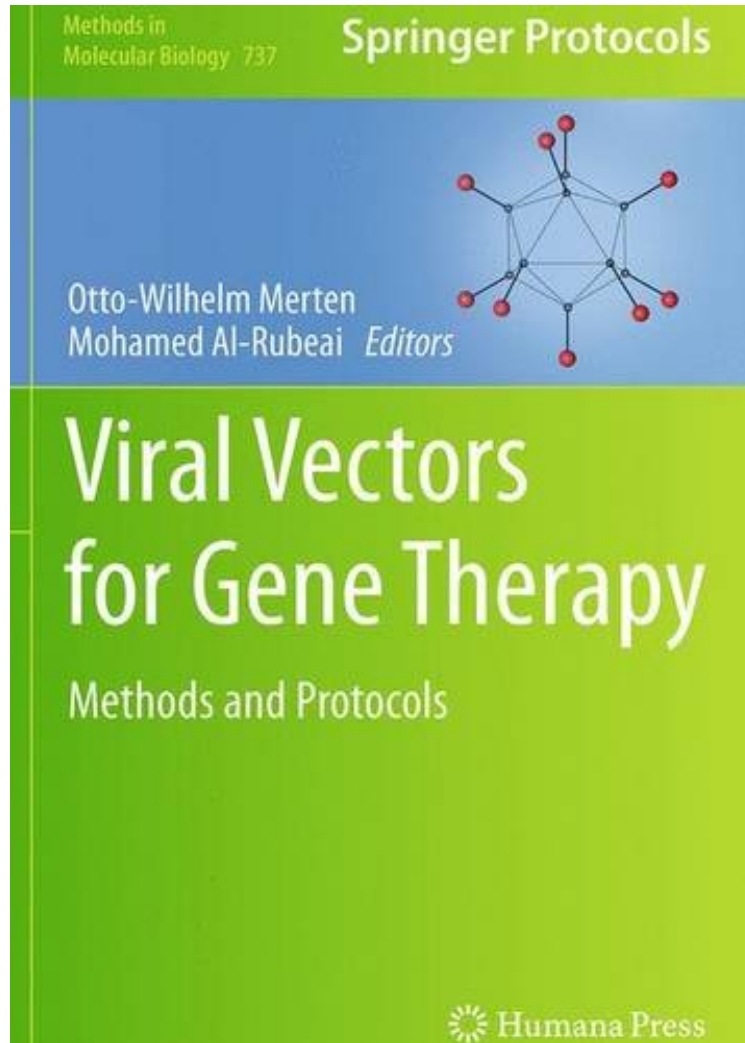


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## Viral Vectors for Gene Therapy: Methods and Protocols (Methods in Molecular Biology)

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This book offers methodologies for virus production, transferring protocols, and evaluating the efficacy of gene

products. Covers the basic principles of popular and less common viral vector systems, using the successful Methods in Molecular Biology format.

From the reviews: Intended for practitioners involved in the preclinical and clinical applications of gene therapy vectors, students, scientists, and physicians specializing in gene therapy will find this book extremely useful. Given the rapid advances in the field of gene therapy, this book is essential, providing useful information on the methodologies that involve virus production, transferring protocols, and evaluation of the efficacy of gene products and other important methodological concepts in gene therapy. (Omer Iqbal, Doodys Service, September, 2011) From the Back Cover The huge potential for gene therapy to cure a wide range of diseases has led to high expectations and a great increase in research efforts in this area, particularly in the study of delivery via viral vectors, widely considered to be more efficient than DNA transfection. In *Viral Vectors for Gene Therapy: Methods and Protocols*, experts in the field present a collection of their knowledge and experience featuring methodologies that involve virus production, transferring protocols, and evaluating the efficacy of gene products. While thoroughly covering the most popular viral vector systems of adenovirus, retrovirus, and adeno-associated virus, this detailed volume also explores less common viral vector systems such as baculovirus, herpes virus, and measles virus, the growing interest in which is creating a considerable demand for large scale manufacturing and purification procedures. Written in the highly successful *Methods in Molecular Biology* series format, many chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and vital tips on troubleshooting and avoiding known pitfalls. Comprehensive and practical, *Viral Vectors for Gene Therapy: Methods and Protocols* provides basic principles accessible to scientists from a wide variety of backgrounds for the development of gene therapy viral products that are safe and effective.