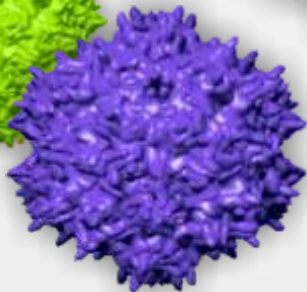
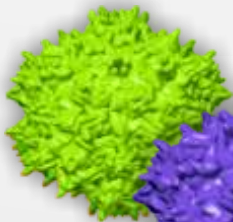
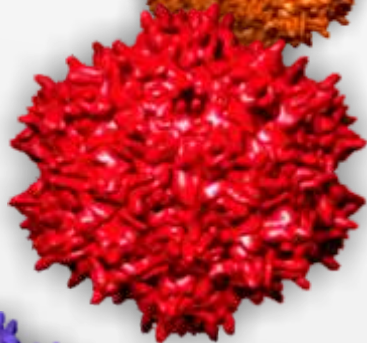
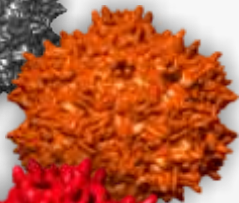
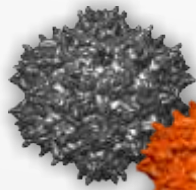
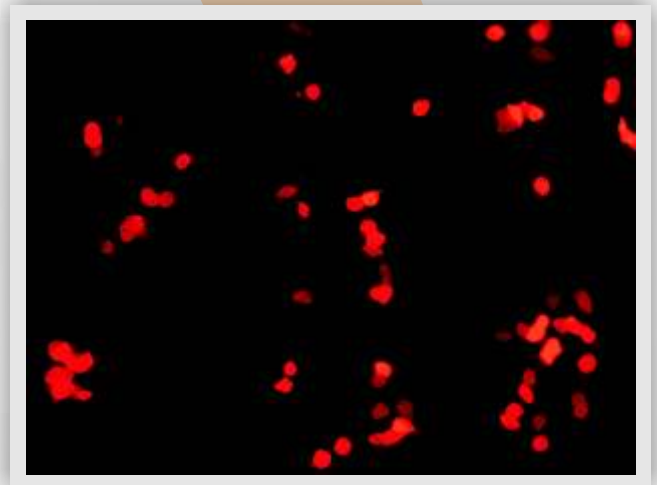


In Stock Service

for AAV Helper & Packaging Plasmids
(pDG Plasmids)



Plasmids to go -
Standard plasmids ready to use
Immediate delivery off the shelf



pDP6rs transfected 293T cells:
Additional RFP expression for transfection control

Our Service for you includes:

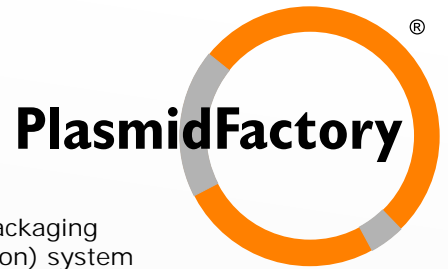
- Various AAV-serotypes
- Reproducible quality of the plasmid DNA by our standardized manufacturing technology incl. LPS-endotoxin removal
- Cultivation without any animal derived component
- Complete characterization of the product by LAL (LPS-endotoxin) assay, BCA (total protein) test, UV spectroscopy, restriction analysis, detection of RNA and bacterial chromosomal DNA by agarose gel electrophoresis

References:

- [1] Grimm *et al.* (1998), Novel Tools for Production and Purification of Recombinant Adenoassociated Virus Vectors, *Human Gene Therapy*, Vol. 9, 2745-2760.
- [2] Kern, A. *et al.* (2003), Identification of a Heparin-Binding Motif on Adeno-Associated Virus Type 2 Capsids, *Journal of Virology*, Vol. 77, 11072-11081.
- [3] Grimm *et al.* (2003), Helper Virus-Free, Optically Controllable, and Two-Plasmid-Based Production of Adeno-associated Virus Vectors of Serotypes 1 to 6, *Molecular Therapy*, Vol. 7, 839-850.
- [4] Kronenberg *et al.* (2005), A Conformational Change in the Adeno-Associated Virus Type 2 Capsid Leads to the Exposure of Hidden VP1 N Termini, *Journal of Virology*, Vol. 79, 5296-5303.
- [5] Moullier, P. and Snyder, R.O. (2008), International efforts for recombinant adeno-associated viral vector reference standards, *Molecular Therapy*, Vol. 16, 1185-1188

In Stock Service

for AAV Helper & Packaging Plasmids (pDG Plasmids)



This system supports transfection for AAV production where the helper and packaging functions are located on only one plasmid. Hence the 2-plasmid (co-transfection) system reduces optimization work to obtain high efficacy in producing your viral vectors.

Features:

- Helper & packaging function (Ad5)
- Replacement of the AAV p5 promoter by the MMTV promoter (MMTV-LTR) for increased capsid assembly (leads to avoiding the budding of replication competent AAV)
- RFP (red fluorescent protein) expression for an easy control of a successful transfection (pDP1rs to pDP6rs). Promoter: RSV
- pBluescriptII SK⁺-based plasmid with the ampicillin resistance gene (bla)

Plasmid	Serotype	Item no.	Plasmid size	Specific features
pDM	<i>cap2</i>	PF400	21.529 bp	<i>Wildtype: rep</i> (Rep78, 68, 52, 40) ITR of AAV2, Ref. [4]
pDG	<i>rep2/cap2</i>	PF421	21.842 bp	equivalent to pDP2, no RFP, Ref. [1]
pDP1rs	<i>rep2/cap1</i>	PF401	23.705 bp	RFP, Ref. [3]
pDP2rs	<i>rep2/cap2</i>	PF402	23.677 bp	RFP, Ref. [3]
pDP3rs	<i>rep2/cap3</i>	PF403	23.725 bp	RFP, Ref. [3]
pDP4rs	<i>rep4/cap4</i>	PF404	23.072 bp	rep-expression under control of AAV4 p5 promoter, <u>no</u> MMTV promoter, RFP, Ref. [3]
pDP5rs	<i>rep2/cap5</i>	PF405	23.668 bp	RFP, Ref. [3]
pDP6rs	<i>rep2/cap6</i>	PF406	23.743 bp	RFP, Ref. [3]
pDG(R484E/ R585E)	<i>rep2/cap2</i>	PF422	21.846 bp	equivalent to pDG (PF421) without heparin binding motif, no RFP, Ref. [2]
pDP8.ape	<i>rep2/cap8</i>	PF478	22.004 bp	no RFP, Ref. [5]

The plasmids are also available without the RFP function (pDP1-pDP6).

Further *In Stock* Products:

- pEPI plasmids containing S/MAR elements
- reporter gene plasmids (GFP, *Luc*, *LacZ*)
- standard backbone plasmids (pUC, pUK, pCMV)
- McBox_{Luc}: Luciferase expressing *Minicircle* DNA

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