

Table 1 Properties of vectors used for skin gene therapy

(ss = single stranded; ds = double stranded)

Feature	AAV	Retrovirus	Lentivirus	Nanoparticle
Genome	ssDNA	ssRNA	ssRNA	DNA or RNA
Infect non-dividing cells	Yes	No	Yes	Yes
Genomic integration	Yes/No	Yes	Yes	No
Expression pattern	6 -12 months	> 12 months	> 12 months	Days
Expression level	Moderate	Moderate	Moderate	Low
Cloning capacity	3.5 - 4 kb	7- 8 kb	7- 8kb	unlimited
Immune response	Low	Moderate	Low	Low
Viral titre/product yield	Low	Moderate	Moderate	High