CLAIMS:

1. A recombinant adenovirus having a capsid comprising an AdPan7 hexon protein having the amino acid sequence of SEQ ID NO:11, a fiber protein, and a penton protein, the adenovirus further comprising adenovirus sequences functionally deleted in the E1a and/or E1b genes, 5' and 3' adenovirus cis-elements necessary for replication and encapsidation, and a transgene heterologous to the adenovirus and operatively linked to sequences which direct expression of said gene in a host cell.

2. The recombinant adenovirus according to claim 1, wherein the fiber protein is the AdPan7 fiber protein of SEQ ID NO:20.

3. The recombinant adenovirus according to claim 1, wherein the fiber protein is the AdPan7 fiber protein of SEQ ID NO: 12.

4. The recombinant adenovirus according to any one of claims 1 to 3, wherein the penton protein is an AdPan7 penton protein of SEQ ID NO:~~6~~ 10.

5. The recombinant adenovirus according to any one of claims 1 to 4, wherein said recombinant adenovirus is a pseudotyped adenovirus, wherein said genome comprises 5' and 3' adenovirus cis-elements necessary for replication and encapsidation, said cis-elements comprising an adenovirus 5' inverted terminal repeat and an adenovirus 3' inverted terminal repeat from an adenovirus different from that supplying the hexon protein.

6. A recombinant adenovirus having a capsid comprising a hexon containing a fragment of the AdPan7 hexon protein, a fiber protein, and a penton protein, the adenovirus further comprising an adenovirus genome functionally deleted in the E1a and/or E1b genes, 5' and 3' adenovirus cis-elements necessary for replication and encapsidation, and a transgene heterologous to the adenovirus, wherein the fragment of the AdPan7 hexon protein is an N-terminal or C-terminal truncation of about 50 amino acids in length of the AdPan7 hexon protein sequence of SEQ ID NO:11.

7. The recombinant adenovirus according to any one of claims 1 to 4 or 6, wherein the adenovirus cis elements comprise 5' inverted terminal repeat (ITR) sequences and the 3' ITR, of AdPan7 of SEQ ID NO: 9 or a sequence complementary thereto.

8. The adenovirus according to claim 6 comprising at least one simian capsid protein selected from:

the penton protein of AdPan7 SEQ ID NO:10; and

the fiber protein of AdPan7 SEQ ID NO:12.

9. An isolated host cell comprising a recombinant adenovirus according to any one of claims 1 to 8.

10. A composition comprising a recombinant adenovirus according to any one of claims 1 to 8 and a pharmaceutically acceptable carrier.

11. Use of a recombinant adenovirus of any one of claims 1 to 8 for the manufacture of a medicament formulated for eliciting an immune response against an infective agent in a mammalian host.

12. A recombinant adenovirus according to any one of claims 1 to 8 for use in eliciting an immune response against an infective agent in a mammalian host.