elongation factor 1a promoter.

9. The recombinant adenoviral vector of claim 7, wherein the expression cassette comprises the nucleic acid sequence of SEQ ID NO: 3 or 4.

10. A recombinant adenoviral vector for generating immunity against enterovirus infection comprising an expression cassette encoding a 3C protease or a 3CD protease of an enterovirus.

11. The recombinant adenoviral vector of claim 10, wherein the recombinant adenoviral vector is replication deficient.

12. The recombinant adenoviral vector of claim 10, wherein the 3C protease or the 3CD protease is originated from enterovirus 71 (EV71).

13. The recombinant adenoviral vector of claim 10, wherein the expression cassette includes a nucleic acid fragment encoding the 3C protease or the 3CD protease.

14. The recombinant adenoviral vector of claim 13, wherein the nucleic acid fragment is operably linked to a promoter for controlling expression of the 3C protease or the 3CD protease.

15. A vaccine composition for generating immunity against enterovirus infection comprising an effective amount of the recombinant adenoviral vector of claim 1 or 14.

16. Use of the recombinant adenoviral vector of claim 1 or 14 or the vaccine composition of claim 15 for manufacturing a medicament for inducing an immune response in a subject against enterovirus infection.

17. The use of claim 16, wherein the enterovirus infection is caused by enterovirus 71 or coxsackievirus A group.

18. The use of claim 16, wherein the medicament is administered subcutaneously, intraperitoneally or orally.

19. The use of claim 16, wherein the administering is repeated.

20. The use of claim 16, wherein the immune response includes T cell responses against the enterovirus infection.

21. The use of claim 20, wherein the T cell response is 3C specific.

22. A method for producing virus like particles of an enterovirus, comprising culturing mammalian cells transfected with a recombinant adenoviral vector as defined in any of claims 1-9 under conditions that allow the expression of the P1 protein and the 3CD protease and assembly of the virus like particles of the enterovirus; and

collecting the cultured mammalian cells and isolating the virus like particles of the enterovirus therefrom.