What is Claimed:

1. A polypeptide comprising an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO: 2 and a I182E mutation as compared to SEQ ID NO: 2.

2. A polypeptide comprising an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO: 2 and a I182D mutation as compared to SEQ ID NO: 2.

3. The polypeptide of claim 1 or 2, wherein the polypeptide further comprises a mutation at position 214, a mutation at position 352 or a mutation at both position 214 and position 352 as compared to SEQ ID NO: 2.

4. The polypeptide of claim 3, wherein the polypeptide further comprises a T214N mutation, a T352A mutation, or a combination thereof, as compared to SEQ ID NO: 2.

5. The polypeptide of claim 3, wherein the polypeptide comprises a T214N and a T352A mutation as compared to SEQ ID NO: 2.

6. The polypeptide of claim 1, wherein the polypeptide comprises a sequence of SEQ ID NO: 23.

7. The polypeptide of claim 2, wherein the polypeptide comprises a sequence of SEQ ID NO: 22.

8. A nucleic acid molecule encoding the polypeptide of any one of claims 1-7.

9. A vector comprising the nucleic acid molecule of claim 8.

10. A cell comprising the nucleic acid molecule of claim 8.

11. A viral particle comprising the polypeptide of any one of claims 1-5.

12. A viral particle comprising the polypeptide of claim 6.

13. A viral particle comprising the polypeptide of claim 7.

14. The viral particle of claim 11, wherein the viral particle is a lentivirus comprising the polypeptide.

15. The viral particle of any one of claims 11-14, wherein the viral particle further comprises a nucleic acid molecule encoding a heterologous molecule of interest.

16. The viral particle of claim 15, wherein the heterologous molecule of interest is an siRNA, an shRNA, a non-coding RNA, a polypeptide, a viral payload, a viral genome, or a combination thereof.

17. The viral particle of claim 11, wherein the heterologous molecule of interest is a chimeric antigen receptor ("CAR").

18. The viral particle of claim 12 or 13, wherein the viral particle further comprises a nucleic acid molecule encoding a chimeric antigen receptor.

18. The polypeptide of claim 1 or 2, wherein the polypeptide comprises an amino acid sequence that is at least 96% identical to the amino acid sequence of SEQ ID NO: 2.

19. The polypeptide of claim 1 or 2, wherein the polypeptide comprises an amino acid sequence that is at least 97% identical to the amino acid sequence of SEQ ID NO: 2.

20. The polypeptide of claim 1 or 2, wherein the polypeptide comprises an amino acid sequence that is at least 98% identical to the amino acid sequence of SEQ ID NO: 2.

21. The polypeptide of claim 1 or 2, wherein the polypeptide comprises an amino acid sequence that is at least 99% identical to the amino acid sequence of SEQ ID NO: 2.