

CLAIMS

1. An influenza hemagglutinin stem domain polypeptide comprising the amino acid sequence:
DTICIGYHANNSTDVTVDTVLEKNVTVTTHSVNLLENGGGGKYVCSAKLRMVTGL
RNX₁PSX₂QSQGLFGAIAGX₃X₄EGGWTGMVDGWYGYHHQNEQSGYAADQKS
TQNAINGITNKNVNSVIEKX₅NTQX₆TAX₇GKEX₈NKX₉ERRMKQIEDKIEEIESKIWC
YNAELLVLLNERTLDFHDSNVKNLYEKVKSQKNNAKEIGNGCFFFYHKCNDE
CMESVKNGTYDYPKYSEESKLNREKIDG (SEQ ID NO: 146),
wherein X₁ is K, X₂ is K, X₃ is F, X₄ is T, X₅ is M, X₆ is Y, X₇ is I, X₈ is Y, and X₉ is S
2. The influenza hemagglutinin stem domain polypeptide according to claim 1, wherein the polypeptide selectively binds to the antibodies CR6261 and/or CR9114.
3. A nucleic acid molecule encoding the polypeptide of claim 1.
4. A vector comprising the nucleic acid molecule of claim 3.
5. A composition comprising the polypeptide of claim 1 and a pharmaceutically acceptable carrier.
6. A composition comprising the nucleic acid molecule according to claim 3 and a pharmaceutically acceptable carrier.
7. Use of the polypeptide according to claim 1 in the manufacture of a medicament for inducing an immune response against an influenza virus, wherein the medicament is to be administered to the subject in need thereof.
8. Use of the nucleic acid molecule according to claim 3 in the manufacture of a medicament for inducing an immune response against an influenza virus, wherein the medicament is to be administered to the subject in need thereof.

9. Use of the vector according to claim 4 in the manufacture of a medicament for inducing an immune response against an influenza virus, wherein the medicament is to be administered to the subject in need thereof.
10. A composition comprising the vector according to claim 4 and a pharmaceutically acceptable carrier.
11. The influenza hemagglutinin stem domain polypeptide according to claim 1, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:81.
12. The influenza hemagglutinin stem domain polypeptide according to claim 1, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:91
13. The influenza hemagglutinin stem domain polypeptide according to claim 1, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:101.