CLAIMS

1. Expression constructs comprising nucleic acid sequence of any of SEQ ID NO: 1-11 and a promoter for directing the transcription of the nucleic acids.

2. Expression construct of claim 1 wherein the expression construct is a recombinant virus.

3. Expression construct of claim 1 or 2 wherein the recombinant virus is not TiLV virus.

4. Expression construct of any of the preceding claim wherein the nucleic acid is a variant of any one of SEQ ID NOs: 1-11 and has at least about 60% sequence identity to any of SEQ ID NOs: 1-11.

5. Expression construct of any of the preceding claim wherein the nucleic acid is a variant of any one of SEQ ID NOs: 1-11 and has at least about 60% sequence identity to any of SEQ ID NOs: 1-11.

6. Expression construct of any of the preceding claim wherein the variant has at least about 75%, about 80%, about 85%, about 90%, about 95%, about 96%, about 97%, about 98%, about 99%, or about 99.5% identity to any of SEQ ID NOs: 1-11.

7. Immunogenic compositions comprising expression construct of any one of claims 1-6*.

8. The immunogenic composition of claim 7, further comprising at least one excipient, additive or adjuvant.

9. The immunogenic composition of any one of claim 7 or 8 for use in inducing an immune response in an animal.

10. The immunologic composition for use of claim 9, wherein the immunogenic composition is to be administered orally, by immersion or by injection.

11. Use of the immunogenic composition of any one of claim 7 or 8 in the manufacture of a medicament for inducing an immune response in an animal.

12. The use of claim 11, wherein the immunogenic composition is to be administered orally, by immersion or by injection.