Title: METHODS FOR PREVENTING AND AMELIORATING PORCINE RESPIRATORY AND REPRODUCTIVE SYNDROME VIRUS-ASSOCIATED DISEASE BY IMMUNIZING AGAINST PORCINE TTV INFECTION

Abstract: Compositions and methods for preventing and ameliorating Porcine respiratory and reproductive syndrome virus (PRRSV)-associated diseases in pigs by immunizing against Torque teno virus (TTV) are disclosed. Also described are methods of identifying compounds for the treatment and prevention of PRRSV-associated diseases.
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

<table>
<thead>
<tr>
<th>IPC(8)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A61K 39/12; A61K 39/42 (2008.04)</td>
<td></td>
</tr>
</tbody>
</table>

**USPC**: 424/9.2, 204.1  
According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

**Minimum documentation searched (classification system followed by classification symbols)**  
USPC: 424/9.2, 204.1

**Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched**  
USPC: 424/815

**Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)**  
WEST (PGPB,USPT,USOC,EPAB,JPAB)  
Google (Patents, Scholar, and Web)  
Search Terms Used: porcine tnt pdns adjuvant virus pneumonia inactivated attenuated nephropathy

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 2005/0058653 A1 (ELLIS et al.) 17 March 2005 (17.03.2005), entire document, especially: para [0009], [0011], [0012], [0016], [0019], [0021], [0046], [0070], [0111].</td>
<td>1-5, 10-20</td>
</tr>
<tr>
<td>Y</td>
<td>US 2001/0041331 A1 (LEARY et al.) 15 November 2001 (15.11.2001), para [0108], [0134].</td>
<td>1-5, 10-20</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

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Date of the actual completion of the international search  
16 November 2008 (16.11.2008)

Date of mailing of the international search report  
25 NOV 2008

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450  
Facsimile No. 571-273-3201

Form PCT/ISA/210 (second sheet) (April 2007)
## Box No. II  Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [ ] Claims Nos.:  
   because they relate to subject matter not required to be searched by this Authority, namely:

2. [ ] Claims Nos.:  
   because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. [X] Claims Nos.: 6-9  
   because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III  Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. [ ] As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- [ ] The additional search fees were accompanied by the applicant’s protest and, where applicable, the payment of a protest fee.
- [ ] The additional search fees were accompanied by the applicant’s protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- [ ] No protest accompanied the payment of additional search fees.