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MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
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(54) Title: CANINE TRANSIENT RECEPTOR POTENTIAL V2 (CTRPV2) AND METHODS OF SCREENING FOR TRPV2 CHANNEL MODULATORS

(57) Abstract: A recombinant canine TRPV2 channel which has been prepared by cDNA cloning and polymerase chain reaction techniques is disclosed. Expression systems for these channels and an assay using the expression systems are also disclosed. The recombinant TRPV2 channel can be used in assays to evaluate compounds which directly or indirectly interact with or bind to TRPV2 channel.

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/US2008/055782

A. CLASSIFICATION OF SUBJECT MATTER  
INV. C07K14/465

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)  
**C07K**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal , Sequence Search, PAO, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Character of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	<p>DATABASE NCBI 30 May 2005 (2005-05-30), XP002495693 accession no. XM 546641 the whole document</p> <p align="center">-----</p>	1-37
X	<p>WO 2006/005471 A (BAYER HEALTHCARE AG [DE]; GOLZ STEFAN [DE]; BRUEGGEMEIER ULF [DE]; GEE) 19 January 2006 (2006-01-19) abstract page 4, line 20 - page 5, line 5 page 6, line 20 - page 7, line 10 page 8, line 17 - line 24 page 9, line 3 - line 15 page 21, line 25 - page 36, line 30 page 68, line 33 - page 72, line 30 examples 6-8</p> <p align="center">-----</p> <p align="right">-/-</p>	1-37

Further Documents are listed in the continuation of Box C.

See patent family annex.

- \* Special categories of cited documents \*
- 1A<sup>1</sup> document defining the general state of the art which is not considered to be of particular relevance
  - \*E\* earlier document but published on or after the international filing date
  - 1L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  - \*O\* document referring to an oral disclosure, use, exhibition or other means
  - 1P\* document published prior to the international filing date but later than the priority date claimed
  - T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
  - \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
  - \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
  - \*&\* document member of the same patent family

Date of the actual completion of the international search  
  
15 September 2008

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09/10/2008

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**INTERNATIONAL SEARCH REPORT**

International application No PCT/US2008/055782
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication where appropriate of the relevant passages	Relevant to claim No
<b>X</b>	EP 1 160 254 A (PFIZER [US]) 5 December 2001 (2001-12-05) abstract paragraph [0071] - paragraph [0075] -----	1-37
<b>P,X</b>	WO 2007/053526 A (JANSSEN PHARMACEUTICA NV [BE]; QIN NING [US]; LIU YI [US]; FLORES CHRI) 10 May 2007 (2007-05-10) the whole document -----	1-37

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2008/055782

## 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  
**Although claims 16, 36 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.**
- 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  Claims Nos  
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 an additional fee 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

# INTERNATIONAL SEARCH REPORT

International application No PCT/US2008/055782
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006005471 <b>A</b>	19-01-2006	<b>NONE</b>	
EP 1160254 <b>A</b>	05-12-2001	<b>JP</b> 3501775 <b>B2</b>	02-03-2004
		<b>JP</b> 2002330769 <b>A</b>	19-11-2002
WO 2007053526 <b>A</b>	10-05-2007	<b>AU</b> 2006308914 <b>A1</b>	10-05-2007
		<b>EP</b> 1952160 <b>A1</b>	06-08-2008