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*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: CHEMOSENSORY GENE FAMILY ENCODING GUSTATORY AND OLFACTORY RECEPTORS AND USES THEREOF

(57) Abstract: This invention provides an isolated nucleic acid encoding an insect gustatory or odorant receptor. This invention provides a nucleic acid of at least 12 nucleotides capable of specifically hybridizing with a nucleic acid encoding an insect gustatory or odorant receptor. This invention also provides a purified, insect gustatory or odorant receptor. This invention provides an antibody capable of specifically binding to an insect gustatory or odorant receptor. This invention provides a method of identifying a compound capable of specifically binding to, activating, or inhibiting the activity of an insect gustatory or odorant receptor. This invention also provides methods of controlling insect populations.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/567; C12P 21/06; C07K 14/00
 US CL : 435/7.1, 69.1; 530/350

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)

U.S. : 435/7.1, 69.1; 530/350

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 practicable, search terms used)
 STN, EAST: search terms: insect, gustatory, odorant; SEQ ID NO: 60

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,610,511 B1 (CARLSON et al.) 26 August 2003 (23.08.03), especially figure 3.	1-21, and 23-54



Further documents are listed in the continuation of Box C.



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