

Title (en)  
ODORANT RECEPTORS AND USES THEREOF.

Title (de)  
GERÜCHESREZEPTOREN UND IHRE ANWENDUNGEN.

Title (fr)  
RECEPTEURS DE SUBSTANCES ODORANTES ET LEURS UTILISATIONS.

Publication  
**EP 0578784 A4 19941102 (EN)**

Application  
**EP 92917380 A 19920406**

Priority  
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Abstract (en)  
[origin: WO9217585A1] The invention provides an isolated nucleic acid, e.g. cDNA encoding an odorant receptor. The invention further provides expression vectors containing such nucleic acid. Also provided is a purified protein encoding an odorant receptor, with the aforementioned expression vectors and the resulting transformed cell. The invention also provides methods of identifying odorant ligands and of identifying odorant receptors. The invention further provides methods of developing fragrances, of identifying appetite suppressant compounds, of controlling appetite, of controlling pest populations, of promoting and inhibiting fertility, and of detecting odors.

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Citation (search report)  
• [X] EP 0335654 A2 19891004 - UNIV JOHNS HOPKINS [US]  
• [PX] TOUHARA, K.; PRESTWICH, G.G.: "A novel multigene family may encode odorant receptors . a molecular basis for odor recognition", CHEMTRACTS, vol. 4, no. 4, September 1991 (1991-09-01), pages 325 - 328  
• [PX] BUCK L; AXEL R: "A novel multigene family may encode odorant receptors: a molecular basis for odor recognition.", CELL, vol. 65, 5 April 1991 (1991-04-05), CAMBRIDGE, NA US, pages 175 - 187, XP023913184, DOI: doi:10.1016/0092-8674(91)90418-X  
• [X] PEVSNER J; TRIFILETTI RR; STRITTMATTER SM; SNYDER SH: "Isolation and characterization of an olfactory receptor protein for odorant pyrazines.", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA., vol. 82, May 1985 (1985-05-01), WASHINGTON US, pages 3050 - 3054  
• See references of WO 9217585A1

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