

Title (en)
OLIGONUCLEOTIDE SEQUENCES AND TRANSGENIC ANIMALS TRANSFECTED THEREWITH HAVING REDUCED SENSITIVITY TO NARCOTIC ANALGESICS.

Title (de)
OLIGONUKLEOTIDSEQUENZEN UND TRANSGENE TIERE DIE DAMIT TRANSFEKTIERT WURDEN BESITZEN EINE REDUZIERTER SENSITIVITÄT GEGEN NARKOTISCHE ANALGETIKA.

Title (fr)
SEQUENCES D'OLIGONUCLEOTIDES ET ANIMAUX TRANSGENIQUES TRANSFECTES AVEC CELLES-CI ET PRESENTANT UNE SENSIBILITE REDUITE AUX ANALGESIQUES NARCOTIQUES.

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Application
EP 93912092 A 19930329

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Abstract (en)
[origin: WO9321309A1] Clones (SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3) have been isolated and sequenced. An antisense construct has been made from part of SEQ ID NO:1 that blocks opioid binding in cells and has been used to produce transgenic animals having a reduced sensitivity to narcotic analgesics. The oligonucleotide sequence introduced into the animals at an embryonic stage was the first about 500 base pairs, but was reversed in direction. Oligonucleotide constructs of the invention are also useful as probes or as therapeutic and diagnostic agents.

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IPC 8 full level
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A01K 67/0275 (2013.01); **C07K 14/70503** (2013.01); **C12N 15/1138** (2013.01); **C12N 15/8509** (2013.01); **A01K 2217/05** (2013.01); **A01K 2227/105** (2013.01); **A01K 2267/03** (2013.01)

Citation (search report)
• [PA] LIPPMAN, D.A. ET AL.: "Opioid-binding cell adhesion molecule (OBCAM)-related clones from a rat brain cDNA library", GENE, vol. 117, no. 2, 15 August 1992 (1992-08-15), AMSTERDAM NL, pages 249 - 254, XP000602047
• [PX] ANN D.K. ET AL.: "Specific reduction of delta opioid receptor binding in transfected NG108-15 cells", JOURNAL OF BIOLOGICAL CHEMISTRY (MICROFILMS), vol. 267, no. 11, 15 April 1992 (1992-04-15), MD US, pages 7921 - 7926, XP000602135
• [PX] LANE, C.M. ET AL.: "Regulation of an opioid-binding protein in NG108-15 cells parallels regulation of delta opioid receptors", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 89, no. 23, 1 December 1992 (1992-12-01), WASHINGTON US, pages 11234 - 11238, XP000602145
• [T] GOVITRAPONG, P. ET AL.: "Transfection of NG108-15 cells with antisense opioid-binding cell adhesion molecule cDNA alters opioid receptor G-protein interaction", JOURNAL OF BIOLOGICAL CHEMISTRY (MICROFILMS), vol. 268, no. 24, 25 August 1993 (1993-08-25), MD US, pages 18280 - 18285, XP000602144
• [T] CHAKRABORTI, A. ET AL.: "Genetic mapping of opioid binding protein gene(s) to mouse chromosome 9", MAMMALIAN GENOME, vol. 4, no. 3, 1993, pages 179 - 182, XP000602417
• See references of WO 9321309A1

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