

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/066204 A2

(51) International Patent Classification⁷: **C07K 14/49**
(21) International Application Number:
PCT/US2004/043125

(22) International Filing Date:
21 December 2004 (21.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/533,719 31 December 2003 (31.12.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: NEUTRALIZING EPITOPE-BASED GROWTH ENHANCING VACCINE

GDF8 Peptides Corresponding to DJ5		Animal Species and Genebank Nos.
327	Residue Nos. Based on Precursor GDF8	For the complete precursor GDF8 of Each Cited Species
V	H Q A N P R G S A G P C C T P T K M S	Anas platyrhynchos (duck) AAL35275
V	H Q A N P R G S A G P C C T P T K M S	Anser anser (goose) AAL35276
V	L Q A N P R G S A G P C C T P T K M S	Anser anser (goose) AAR18246
V	H Q A N P R G S A G P C C T P T K M S	Bos taurus (cow) AAB86687
V	H Q A N P R G S A G P C C T P T K M S	Canis familiaris (dog) AAR14343
V	H Q A N P K G S A G P C C T P T K M S	Capra hircus (goat) AAR12161
V	H Q A N P R G S A G P C C T P T K M S	Columba livia (pigeon) AAL35277
V	H Q A N P R G S A G P C C T P T K M S	Coturnix chinensis (quail) AAL35278
V	N K A S P R G T A G P C C T P T K M S	Danio rerio (zebrafish) AAB86693
V	H Q A N P R G S A G P C C T P T K M S	Equus caballus (horse) BAB16046
V	H Q A N P R G P A G P C C T P T K M S	Gallus gallus (chicken) AAK18000
V	H Q A N P R G S A G P C C T P T K M S	Gallus gallus (chicken) AAR18244
V	H Q A N P R G S A G P C C T P T K M S	Homo sapiens (human) NP_005250
V	N K A N P R G T A G P C C T P T K M S	I. punctatus (catfish) AAK84666
V	H Q A N P R G S A G P C C T P T K M S	Lepus capensis (hare) AAN87890
V	H Q A N P R G S A G P C C T P T K M S	Macaca fascicularis (monkey) AAL17640
V	H Q A N P R G S A G P C C T P T K M S	Meleagris gallopavo (turkey) AAB86692
V	N K A N P R G T A G P C C T P T K M S	Morone chrysops (white bass) AAK28707
V	H Q A N P R G S A G P C C T P T K M S	Mus musculus (house mouse) AAC53167
V	N K A N P R G T A G P C C T P T K M S	O. mykiss (trout) AAK71707
V	H Q A N P K G S A G P C C T P T K M S	Ovis aries (sheep) AAB86689
V	H Q A N P R G S A G P C C T P T K M S	Papio hamadryas (baboon) AAB86686
V	H Q A N P R G S A G P C C T P T K M S	Rattus norvegicus (rat) AAB86691
V	N K A N P R G T A G P C C T P T K M S	Salmo salar (salmon) CAC19541
V	N K A N P R G T A G P C C T P T K M S	Sparus aurata (seabream) AAL05943
V	H Q A N P R G S A G P C C T P T K M S	Sus scrofa (pig) AAC08035
V	L Q A N P R G S A G P C C T P T K M S	Sus scrofa (pig) AAR18245

(57) Abstract: The invention provides new, specific antigenic peptides from the protein GDF8. The invention also provides fusion proteins comprising the new peptides, immunogens and vaccines based on the new peptides and/or fusion proteins, antibodies that specifically bind to the new peptides of GDF8, and methods of treating animals in order to modulate the activity of GDF8, employing vaccines or antibodies according to the invention.

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**Declaration under Rule 4.17:**

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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