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(US). **COCHRAN, Mark, D.** [US/US]; 4506 Horizon Drive, Carlsbad, CA 92008 (US).

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(74) Agent: **DAVIS, Michael, D.**; Schering-Plough Corporation, Patent Department, K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US).

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(71) Applicant (for all designated States except US): **SCHERING-PLOUGH LTD.** [CH/CH]; Weysstrasse 20, P.O. Box, CH-6000 Lucerne 6 (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JUNKER, David**, E. [US/US]; 6901 Galewood Street, San Diego, CA 92120

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[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 ———> 346		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 <u>L</u> 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 <u>K</u> 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 <u>N</u> <u>K</u> A <u>S</u> P R G <u>T</u> 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 <u>P</u> 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 <u>N</u> <u>K</u> A N P R G <u>T</u> A G P C C T P T K M S		I. punctatus (catfish) AAK94666
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 <u>N</u> <u>K</u> A N P R G <u>T</u> 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 <u>N</u> <u>K</u> A N P R G <u>T</u> A G P C C T P T K M S		O. mykiss (trout) AAK71707
V H Q A N P <u>K</u> 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 <u>N</u> <u>K</u> A N P R G <u>T</u> A G P C C T P T K M S		Salmo salar (salmon) CAC19541
V <u>N</u> <u>K</u> A N P R G <u>T</u> 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 <u>L</u> 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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