

Title (en)  
cDNA CODING FOR PLASMODIUM FALCIPARUM GLYCOPHORIN BINDING PROTEINS WEIGHING 130,000 DALTONS AND 155,000 DALTONS.

Title (de)  
C-DNA, KODIEREND FÜR PLASMODIUM-FALCIPARUM-GLYKOPHORINBINDUNGSPROTEINE MIT EINEM GEWICHT VON 130000 DALTON BZW 155000 DALTON.

Title (fr)  
ADNc DE CODAGE DES PROTEINES DE LIAISON AVEC LA GLYCOPHORINE DU PLASMODIUM FALCIPARUM PESANT 130.000 DALTONS ET 155.000 DALTONS.

Publication  
**EP 0215059 A4 19880413 (EN)**

Application  
**EP 86901657 A 19860219**

Priority  
US 70351985 A 19850220

Abstract (en)  
[origin: WO8604922A1] cDNA for the gene coding for P. falciparum glycophorin binding proteins. The cDNA shows a 150 nucleotide tandem repeat sequence, which codes for a 50 amino acid tandem repeat unit in the proteins. Vectors containing the cDNA, transformed microorganisms, and antibodies produced by immunization with the proteins are disclosed as well. The glycophorin binding protein is found to exist in two forms. One, weighing about 155,000 daltons appears to be the precursor of a second, which weighs about 130,000 daltons.

IPC 1-7  
**C12N 15/00**; C12N 1/20; C12N 1/00; A61K 39/00; C07H 15/12; C07K 7/00; C07K 13/00

IPC 8 full level  
**C12N 15/00** (2006.01); **A61K 39/015** (2006.01); **C07K 14/00** (2006.01); **C07K 14/435** (2006.01); **C07K 14/44** (2006.01); **C07K 14/445** (2006.01); **C07K 14/705** (2006.01); **C07K 16/00** (2006.01); **C07K 19/00** (2006.01); **C12N 1/20** (2006.01); **C12N 15/09** (2006.01); **C12P 21/02** (2006.01); **A61K 39/00** (2006.01); **C12R 1/19** (2006.01)

CPC (source: EP US)  
**C07K 14/445** (2013.01 - EP); **A61K 39/00** (2013.01 - EP US); **Y02A 50/30** (2018.01 - EP)

Citation (search report)

- [Y] WO 8402917 A1 19840802 - INST MEDICAL W & E HALL [AU]
- [Y] NATURE, vol. 310, 30th August 1984, pages 789-792; R.L. COPPEL et al.: "Immune sera recognize on erythrocytes a Plasmodium falciparum antigen composed of repeated amino acid sequences"
- [Y] PROC. NATL. ACAD. SCI. USA, vol. 82, January 1985, pages 543-547; H.-D. STAHL et al.: "Interspersed blocks of repetitive and charged amino acids in a dominant immunogen of Plasmodium falciparum"
- [XP] SCIENCE, vol. 227, no. 4694, 29th March 1985, pages 1593-1597; J.V. RAVETCH et al.: "Isolation of the gene for a glycophorin-binding protein implicated in erythrocyte invasion by a malaria parasite"
- [Y] PROC. NATL. ACAD. SCI. USA, vol. 81, December 1984, pages 7912-7916; B. WAHLIN et al.: "Human antibodies to a Mr 155,000 Plasmodium falciparum antigen efficiently inhibit merozoite invasion"
- See also references of WO 8604922A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**WO 8604922 A1 19860828**; AU 5540886 A 19860910; EP 0215059 A1 19870325; EP 0215059 A4 19880413; JP S62502933 A 19871126

DOCDB simple family (application)  
**US 8600347 W 19860219**; AU 5540886 A 19860219; EP 86901657 A 19860219; JP 50147586 A 19860219