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(54) Title: CENTRAL NERVOUS SYSTEM DAMAGE

(57) Abstract: The application provides peptides that interact with the inhibitory domains of the myelin proteins Nogo, TNR and MAG. These may be used in the treatment for CNS damage, and for the development of further treatments. Also provided are methods and materials for immunizing subjects against the inhibitory domains of the myelin proteins, for the treatment for CNS damage.

AMORCES PCR

MAG1: 5- *CG* GGA TCC **ATG ATA TTC CTT ACC ACC CT**
BamH I Met

MAG2: 5- *TCC* C CGC GGC **TCG GTG TGC TCC CTG GAA**
Sac II

TNR1: 5-*TCC* CC GCG GCA **TGT CCA TGT GCC AGT TCA**
Sac II

TNR2: 5- *TT* GC GGC CGC **TGG AGG GGC AAC TGC TGA**
Not I

NogoN1: 5-*TT* GCG GCC GCA **ATG GAA GAC CTG GAC CAG TCT**
Not I

NogoN2: 5-*AAA* C TGC AGC **CAC TGA GCC CGA GGA GCC CCT**
Pst I

Nogo66-1: 5-*AAA* CT GCA GCA **AGG ATA TAC AAG GGT GT**
Pst I

Nogo66-2: 5- *GC* TCT AGA *TCA* **CTT CAG AGA ATC AAC TA**
Xba I ***

CONSTRUCTION OBTENUE A PARTIR DE PRODUITS PCR RELIES SEQUENTIELLEMENT

Ala Ala Ala Ala Ala Ala Ala Ala Ala
5'-GGA TCC(MAG)GCC GCG GCA(TNR)GCG GCC GCA(NogoN)GCT GCA GCA
BamH I Sac II Not I Pst I

***
(Nogo66)TGA TCT AGA-3'
Xba I

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