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(54) Title: ANTICOAGULATION AGENT AND USES THEREOF

(57) Abstract: The present invention provides an anticoagulant agent including a first element capable of inhibiting coagulation and a second element capable of targeting an activated platelet wherein upon administration of the agent to a subject the second element directs the first element to the activated platelet. Also provided is a probe for detecting a blood vessel abnormality including (a) a binding element capable of targeting an activated platelet and (b) a label. Applicant has shown that agents and probes directed to activated platelets are useful in the diagnosis and therapy of coagulation disorders.

5'-TGA CCA TGA TTA CGA ATT TCT GAA GAA GGA GAT ATA CAT^{40}ATG AAA TAC CTA TTG CCT ACG GCA GCC GCT GGC TTG CTG CTG CTG GCA GCT CAG CCG GCC ATG GCG^{106}GTG CAG CTG CAG CAG TCT GGG GGA GGC TTA GTG AAG CCT GGA GGG TCC CTG AAA CTC TCC TGC GCA GCC TCT GGA TTC ACT TTC AGT AGC TAT ATC ATG TCT^{208}TGG GTT CGC CAG ACT CCG GAG AAG AGG CTG GAG TGG GTC GCA ACC ATT AGA AGT GGT GGT GAT AAC ACC TAC TAT CCA GAC AGT GTG AAG GGT CGA TTC ACC ATC TCC AGA GAC AAT GCC AAG AAC AAG TTG TAC CTG CAA ATG AGC AGT CTG AGG TCT GAG GAC ACG GCC TTG TAT TAC TGT GCA ATC TAC TAT GGT AAC TAC GGG GGG CTT GCT TAC TGG GGC CAA GGG ACT CTG GTC ACT GTC TCT GCA GCC AAA ACG ACA CCC AAG CTT^{481}GAA GAA GGT GAA TTT TCA GAA GCA CGC^{508}GTA GAT ATC TTG ATG ACC CAA TCT CCA GCC TCC CTA TCT GCA TCT GTG GGA GAA ACT GTC ACC ATC ACA TGT CGA GCA AGT GGG AAT ATT CAC AAT TAT TTA GCA TGG TAT CAG CAG AAA CAG GGA AAA TCT CCT CAG CTC CTG GTC TAT AAT GCA AAA ACC TTA GCA GAT GGT GTG CCA TCA AGG TTC AGT GGC AGT GGA TCA GGA ACA CAA TAT TCT CTC AAG ATC AAC AGC CTG CAG CCT GAA GAT TTT GGG AGT TAT TAC TGT CAA CAT TTT TGG AGT ACT CCG TAC ACG TTC GGA GGG GGG ACC AAG CTG GAA ATA AAA CGG GCT GAT GCT GCG GCC GCT GGA TCC^{859}TAC AAC CGT CTG TGC ATC AAA CCG CGT GAC TGG ATC GAC GAA TGC GAC TCC AAC GAA GGT GGT GAA CGT GCT TAC TTC CGT AAC GGT AAA GGT GGT TGC GAC TCC TTC TGG ATC TGC CCG GAA GAC CAC ACC GGT GCT GAC TAC TAC TCC TCC TAC CGT GAC TGC TTC AAC GCT TGC ATC^{1039}GGT GGA GGC TCA GGA GAT CTA AAC TCA^{1066}CAT CAC CAT CAC CAT CAC TAA-3'

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