

-continued

<210> SEQ ID NO 36
 <211> LENGTH: 993
 <212> TYPE: DNA
 <213> ORGANISM: Plasmodium berghei

<400> SEQUENCE: 36

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What is claimed is:

1. An isolated nucleic acid encoding a fusion protein comprising *Plasmodium* circumsporozoite protein (CSP) and at least one p28 molecule from the croup consisting of SEQ. ID. NO. 25 and SEQ. ID. NO. 26, wherein the CSP is SEQ. ID. NO. 28 or SEQ. ID. NO. 35.
2. An expression vector comprising the nucleic acid according to claim 1 and further comprising regulatory sequences for expression of the fusion protein.
3. A host murine cell comprising the vector according to claim 2.
4. A composition comprising the vector according to claim 2 and a pharmaceutically acceptable excipient or carrier.
5. A method of constructing a nucleic acid encoding a fusion protein comprising a peptide or polypeptide antigen and more than one human (SEQ. ID. NO. 25) or murine (SEQ. ID. NO. 26) p28 molecule comprising the steps of:
 - constructing a full length *Plasmodium* CSP without the GPI-anchor sequence CSP(-A) (SEQ. ID. NO. 28);
 - amplifying the C-terminal part of CSP (SEQ. ID. NO. 28) from pCI-CSP-3xC3d using OAN443 (SEQ. ID. NO. 29) and OAN444 (SEQ. ID. NO. 30) yield a first PCR product;
 - enzymatically lysing the first PCR product yielding a first enzymatic product;
 - ligating the first enzymatic product into a first clone;
 - amplifying the p28 fragment of C3d from pCI-CSP-3xC3d using OAN445 (SEQ. ID. NO. 15) and OAN446 (SEQ. ID. NO. 16) yielding a second PCR product;
 - enzymatically lysing the second PCR product yielding a second enzymatic product;
 - ligating said second enzymatic product into the first clone, in combination with a linker, yielding a second clone;
 - enzymatically lysing the second clone yielding a third enzymatic product;
 - ligating the second enzymatic product into the third enzymatic product, in combination with a linker, yielding a third clone;
 - enzymatically lysing the third clone yielding a fourth enzymatic product;
 - ligating the second enzymatic product into the fourth enzymatic product, in combination with a linker, yielding a fourth clone;
 - enzymatically lysing pCI-CSP-3xC3d yielding a fifth enzymatic product;
 - enzymatically lysing the fourth clone yielding a sixth enzymatic product; and,
 - ligating the fifth enzymatic product into the sixth enzymatic product, in combination with a linker, yielding a fifth clone.
6. The method of claim 5 wherein the enzymatic lysing is accomplished with an enzymatic restrictase selected from a group consisting of: BGIII/EcoRI, XbaI/EcoRI, BamHI/EcoRI, and Afl HH/EcoRI.
7. The method of claim 5 wherein the antigen is CSP (SEQ. ID. NO. 28).
8. The method of claim 5 wherein the p28 fragment is coupled to the antigen via a peptide bond.