

FIG. 1

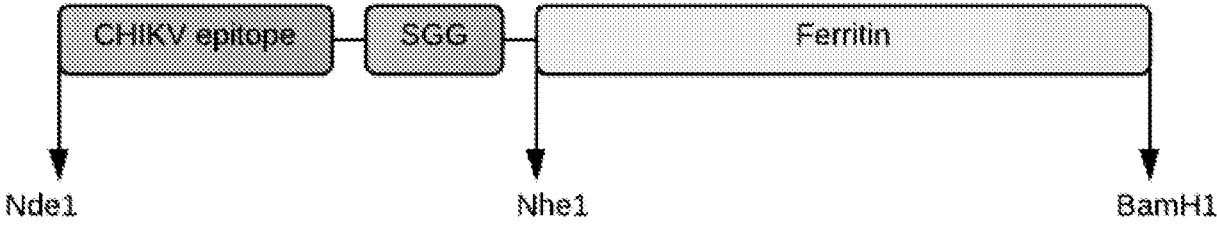
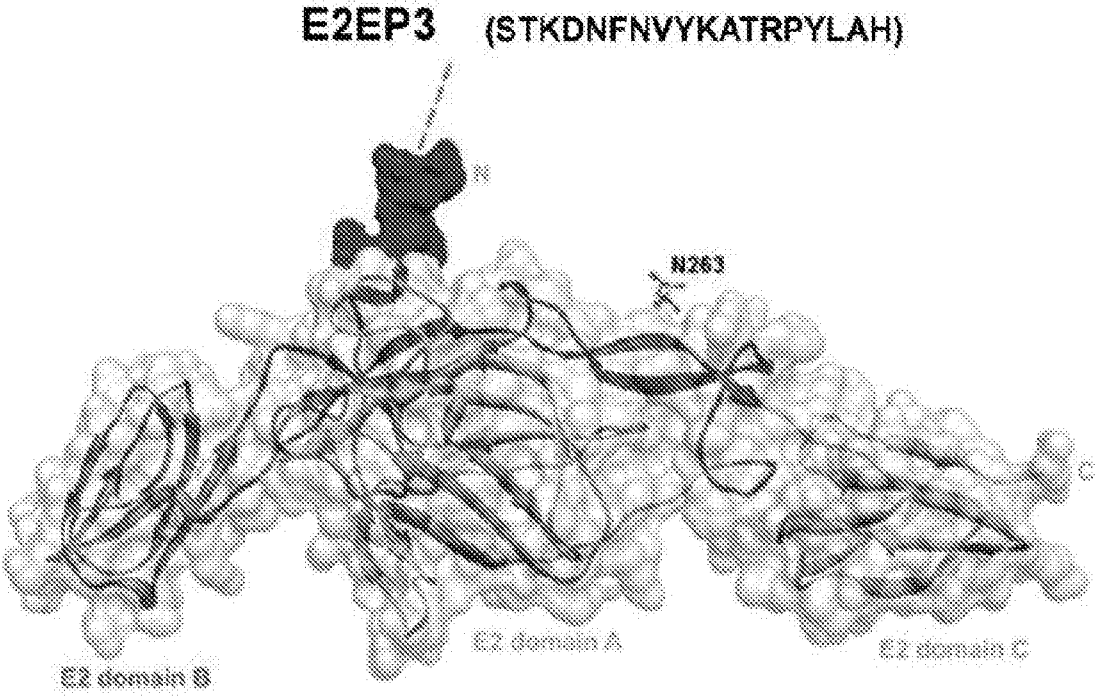


FIG. 2



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FIG. 3

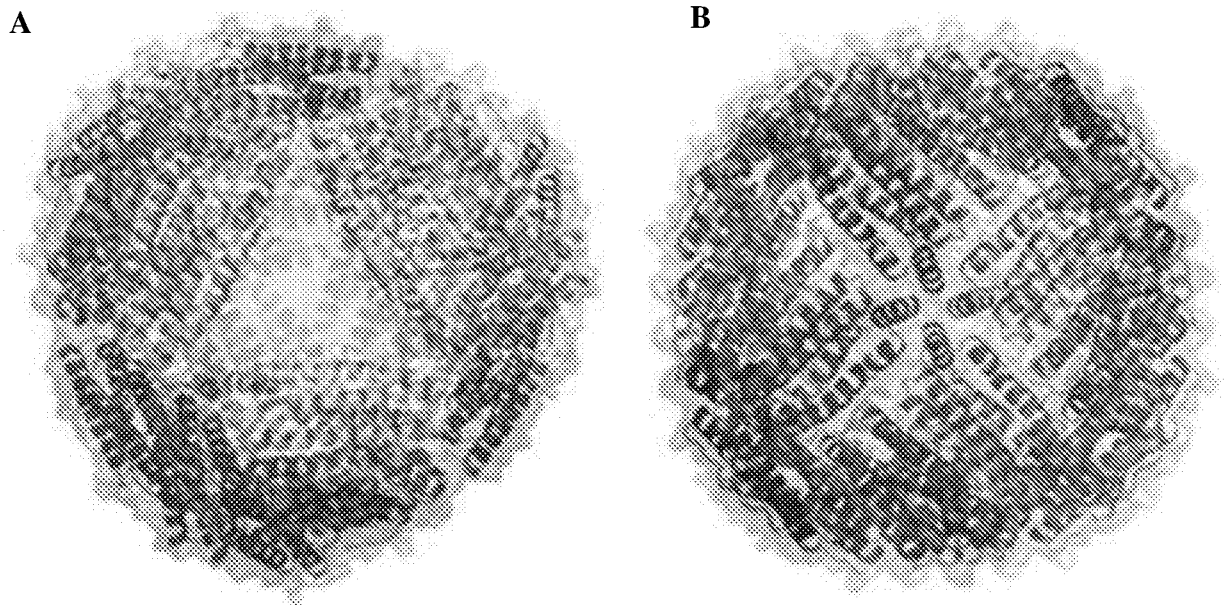
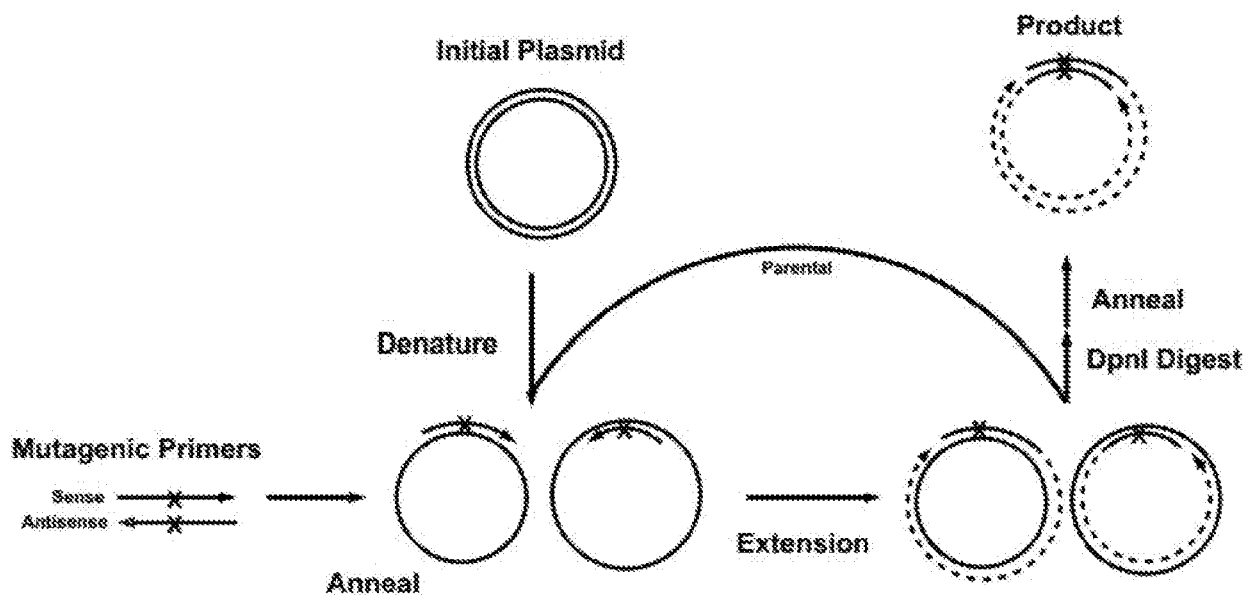


FIG. 4



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FIG. 5

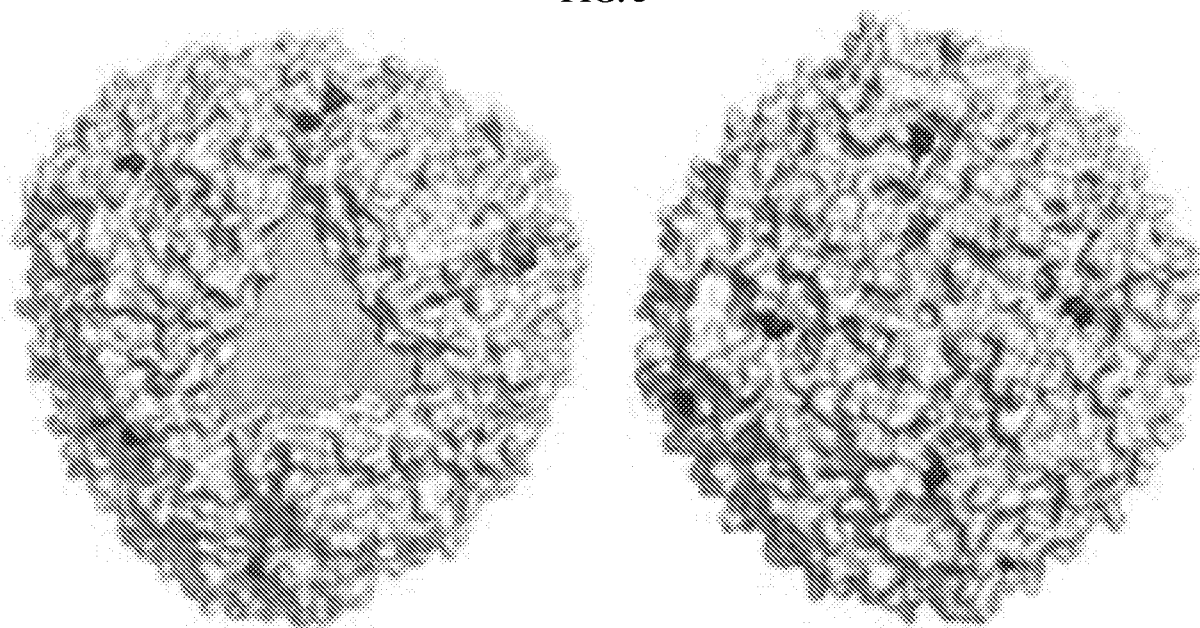
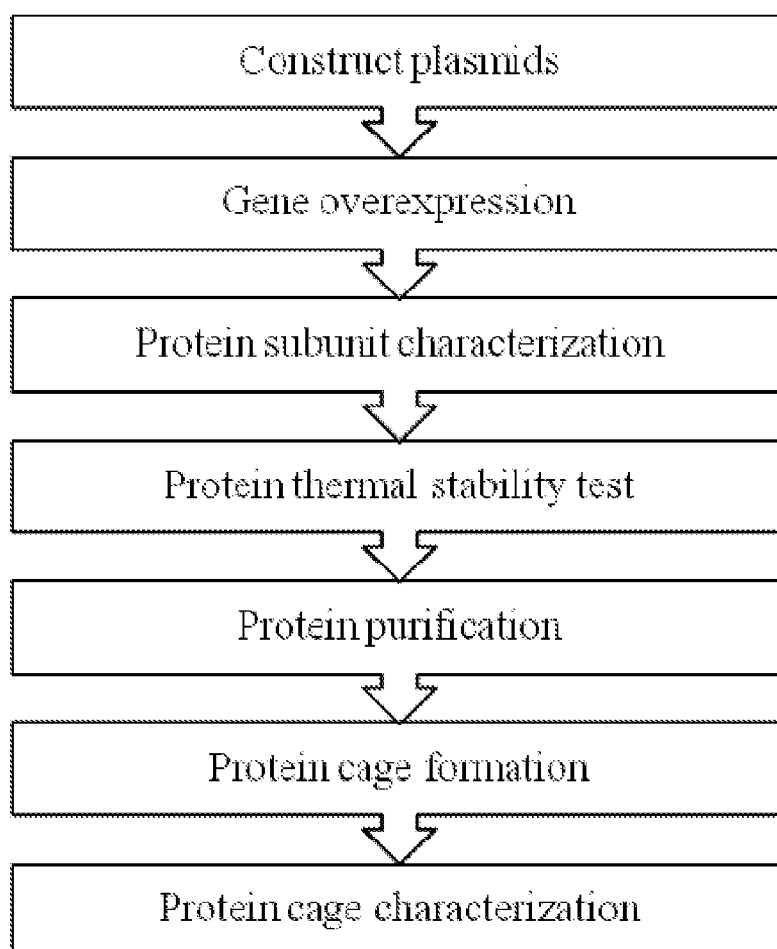


FIG. 6



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FIG. 7

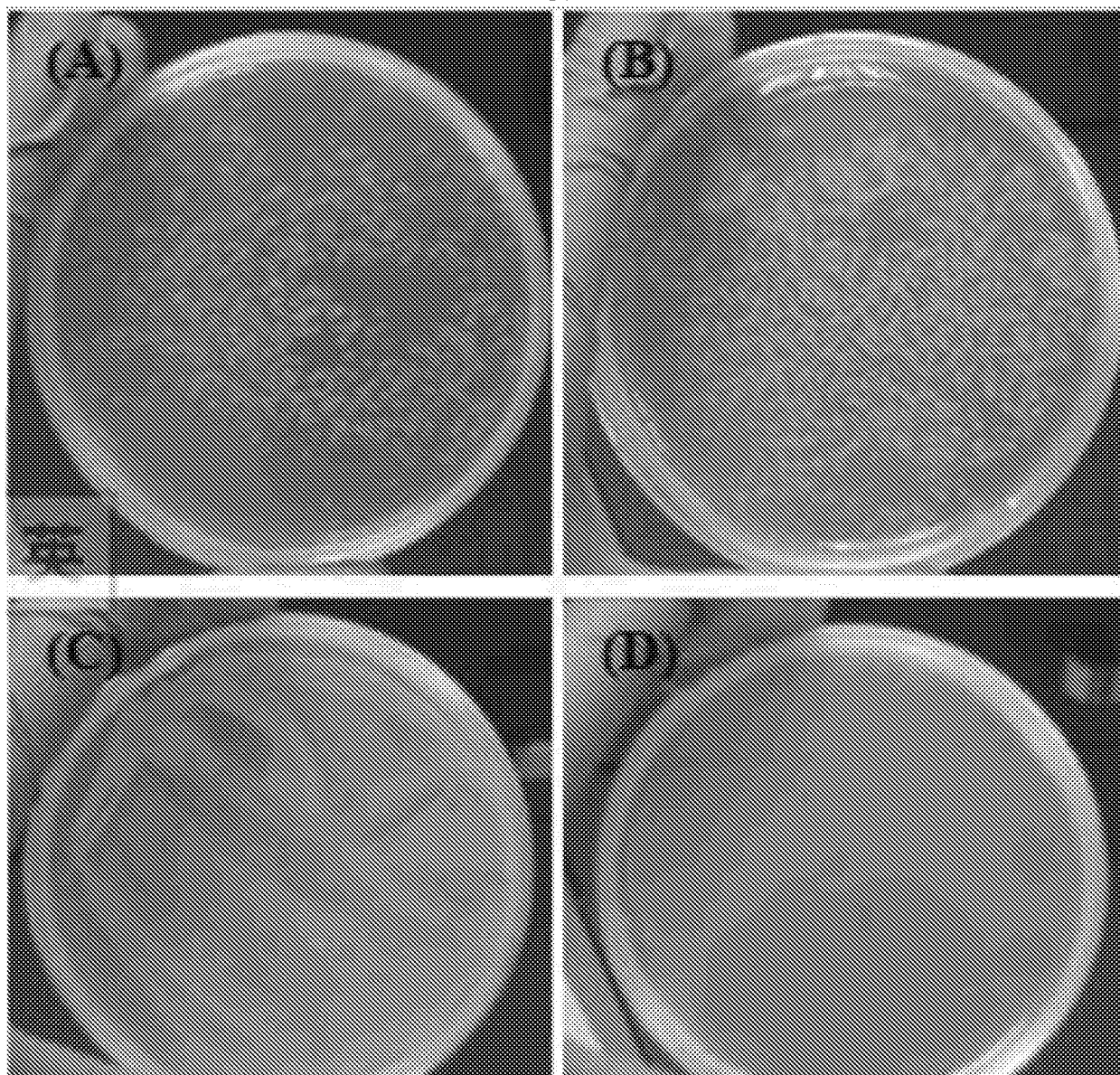


FIG. 8

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GAGGAAGCCTCTGCCCTCGACATTGTGGAGAAGCTGAGGTTGATTGGAGA
|||||
GAGGAAGCCTCTGCCCTCGACATTGTGGAGAAGCTGAGGTTG-----
GGACGCGGCGGCTTTGCGGAGAGGACGCGGCGGCTTTGCTGGAGAGGACG
-----
CGGCGGCTTTGCTTTTCATTGGAGAGGACGCGGCGGCTTTGCTTTTCCTT
|||||
-----ATTGGAGAGGACGCGGCGGCTTTGCTTTTCCTT
GATAAGGAGCTTTCTCTCAGGCAGTTTACTCCTCCAGCTGAGGAGGAGAA
|||||
GATAAGGAGCTTTCTCTCAGGCAGTTTACTCCTCCAGCTGAGGAGGAGAA
GTAAGGATCCGGATCGACGAGAGCAGCGCGACTGGATCTGTCGCCCGTCT
||||
GTAA-----

```

FIG. 9

A

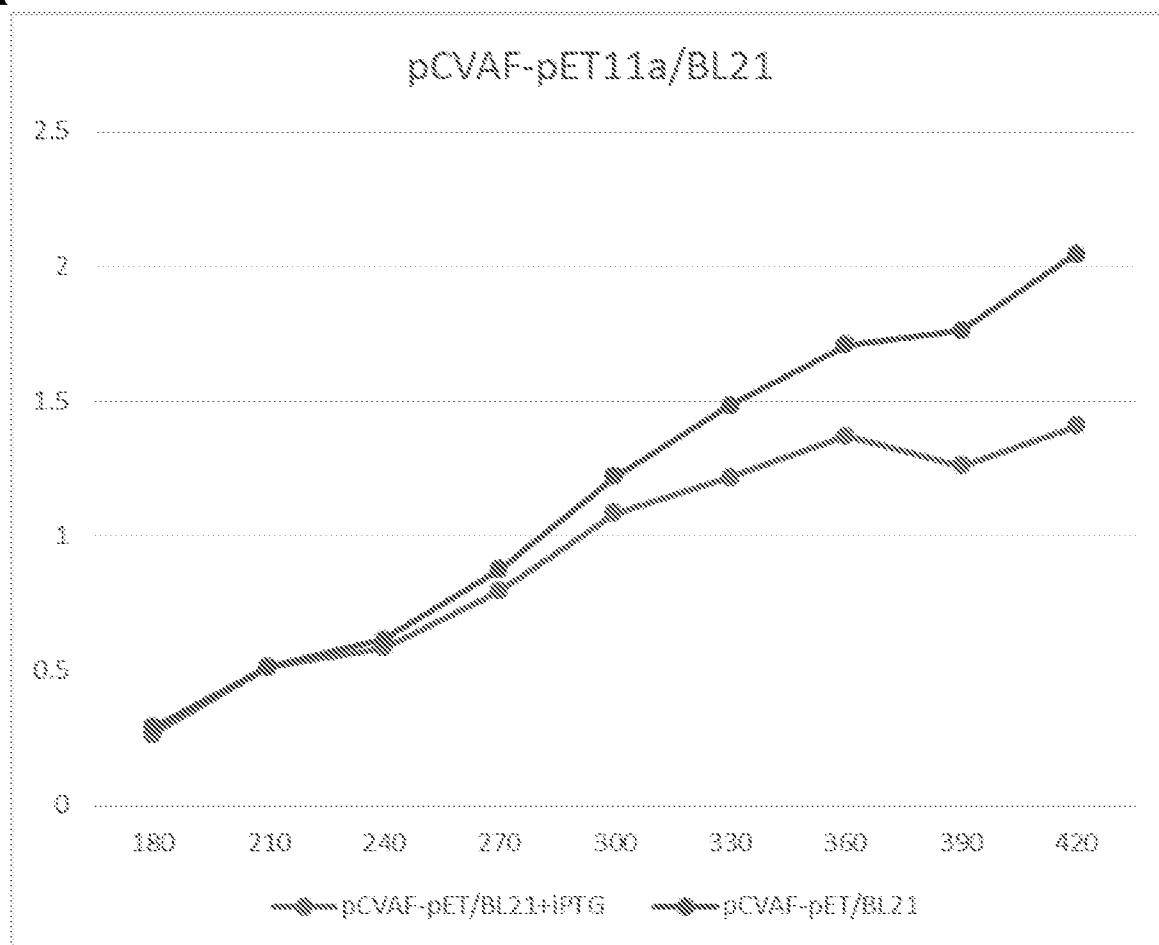


FIG. 9 continued

B

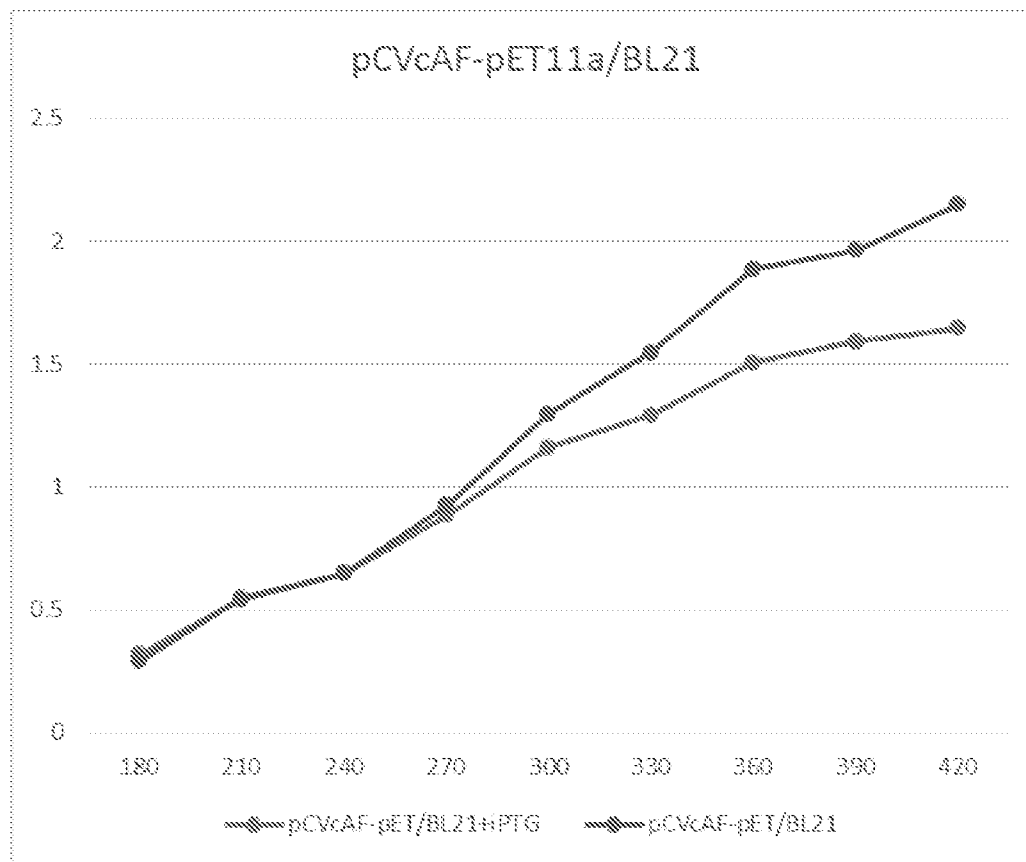
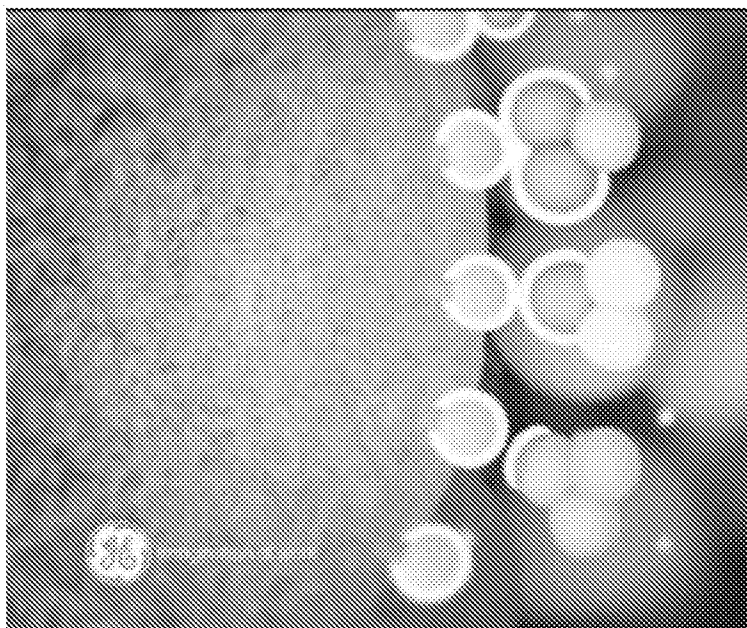


FIG. 10



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FIG. 11

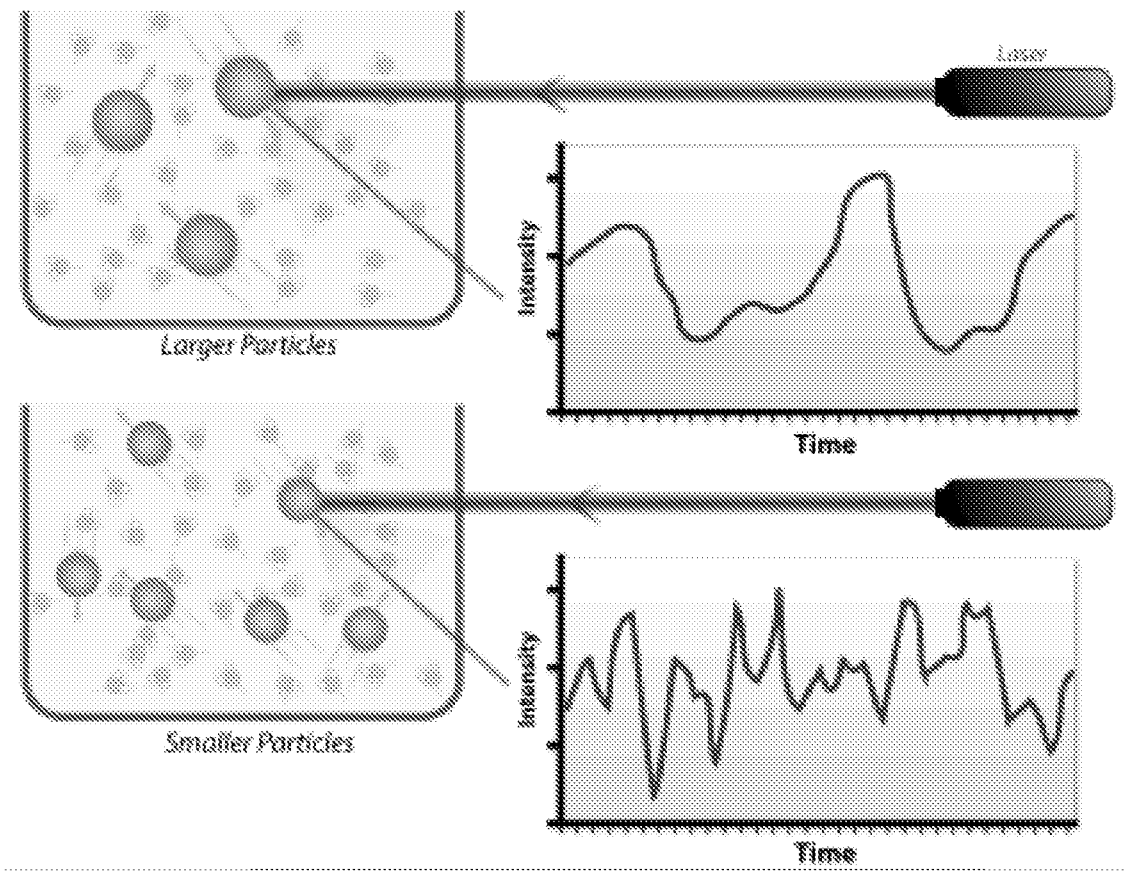
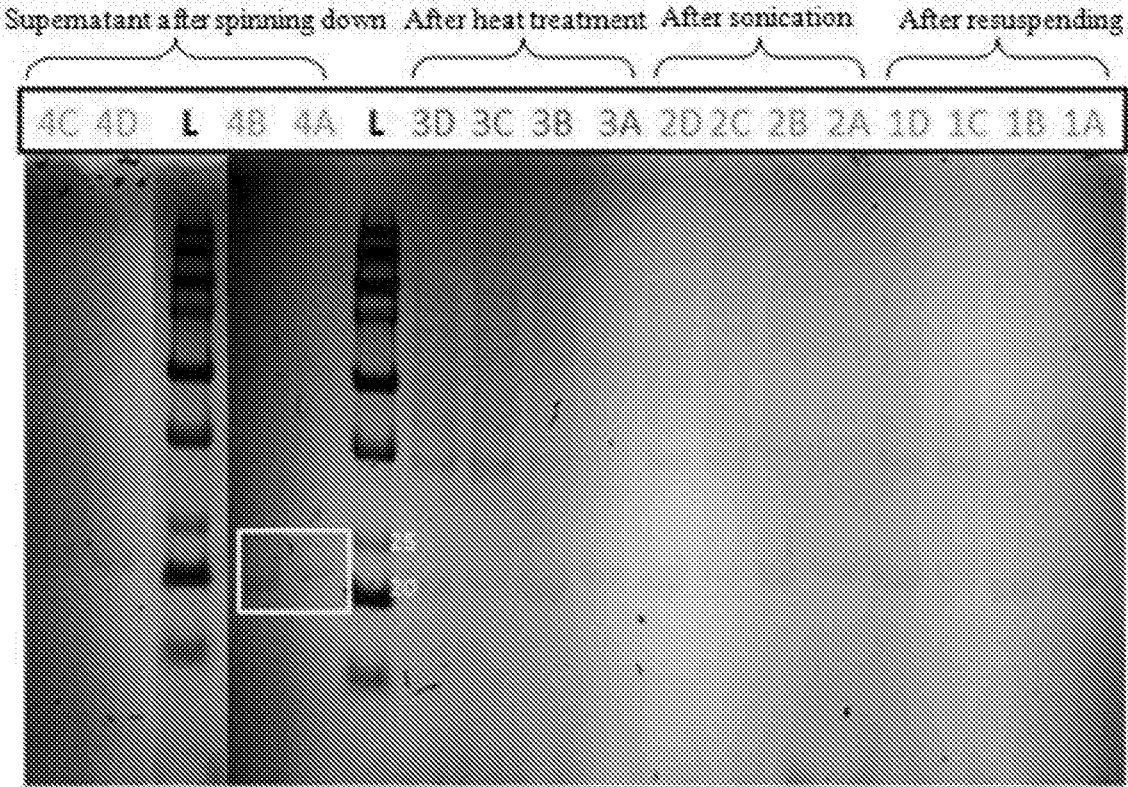


FIG. 12



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FIG. 13

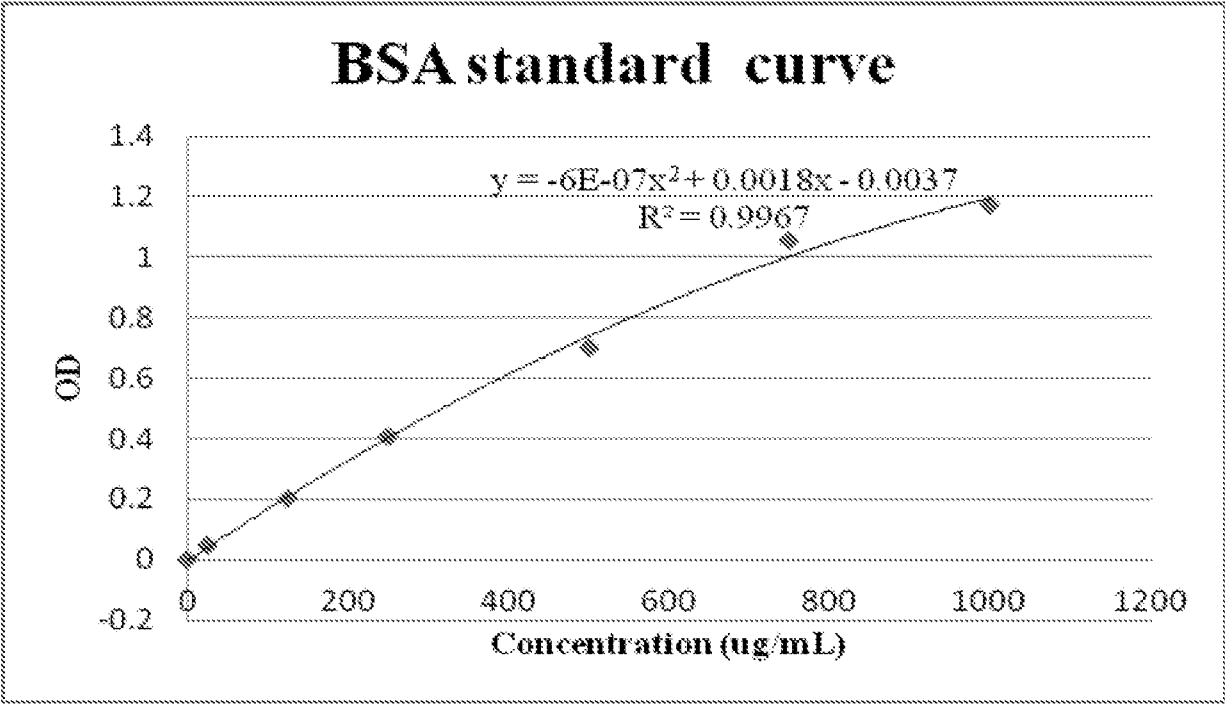


FIG. 14

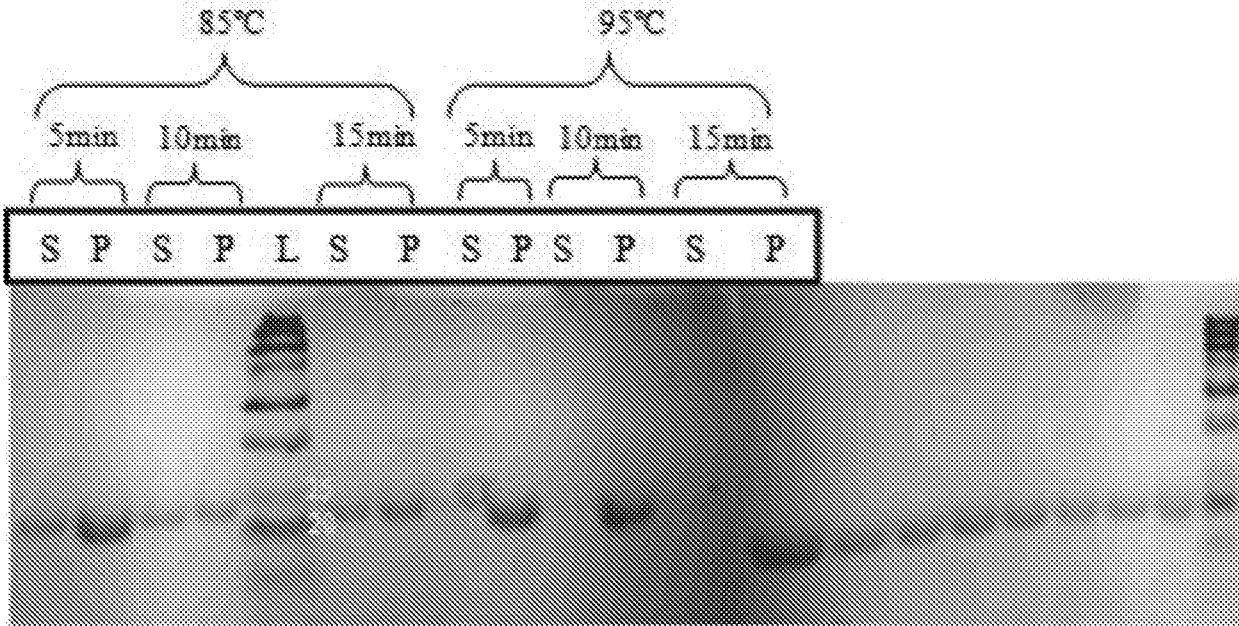


FIG. 15

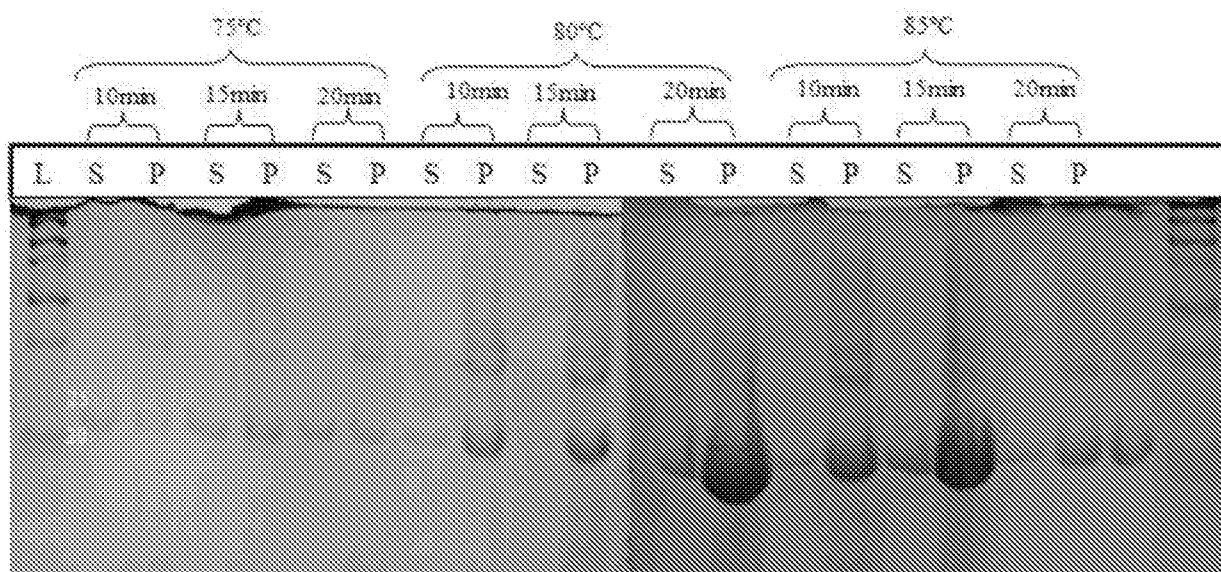


FIG. 16

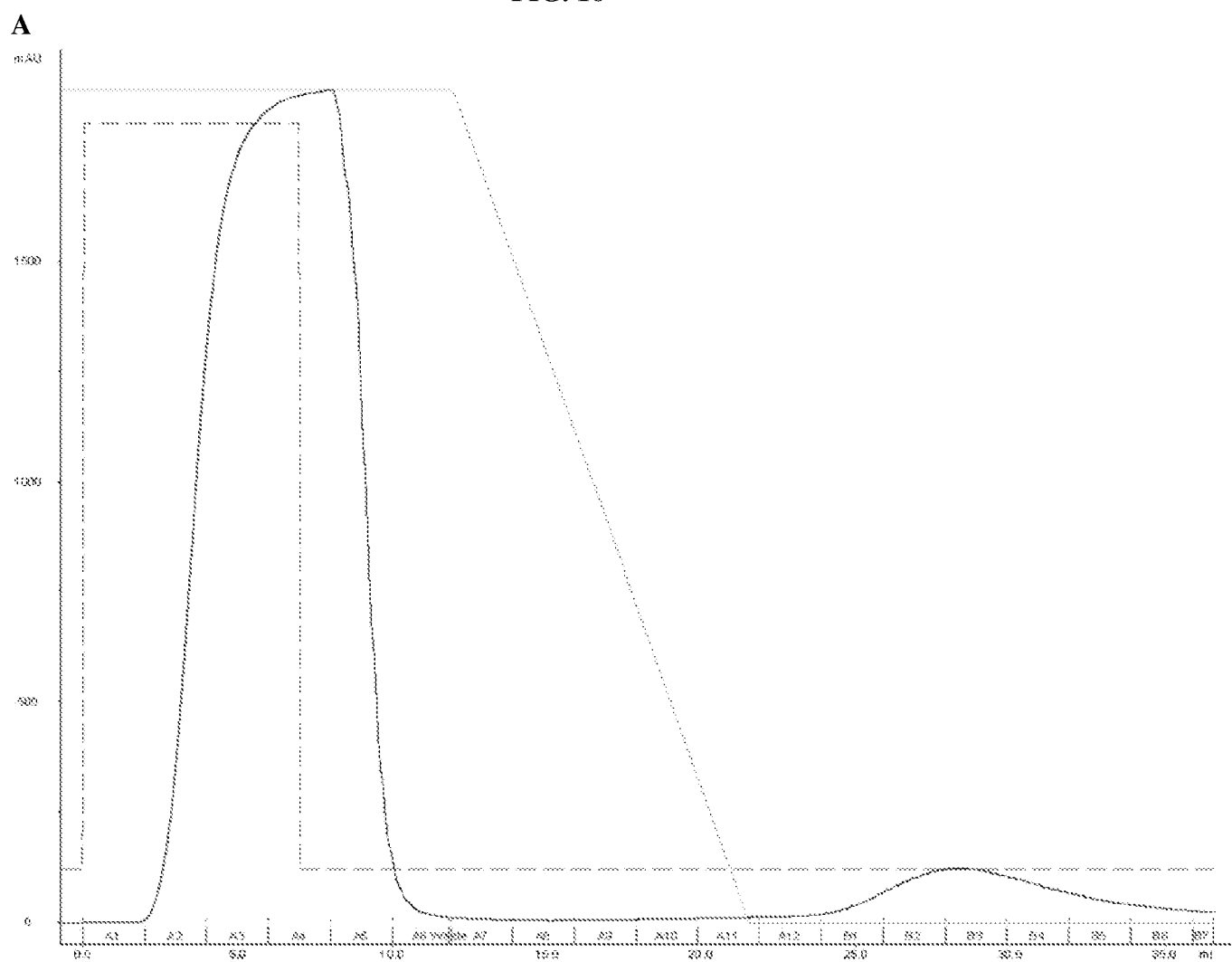


FIG. 16 continued

B

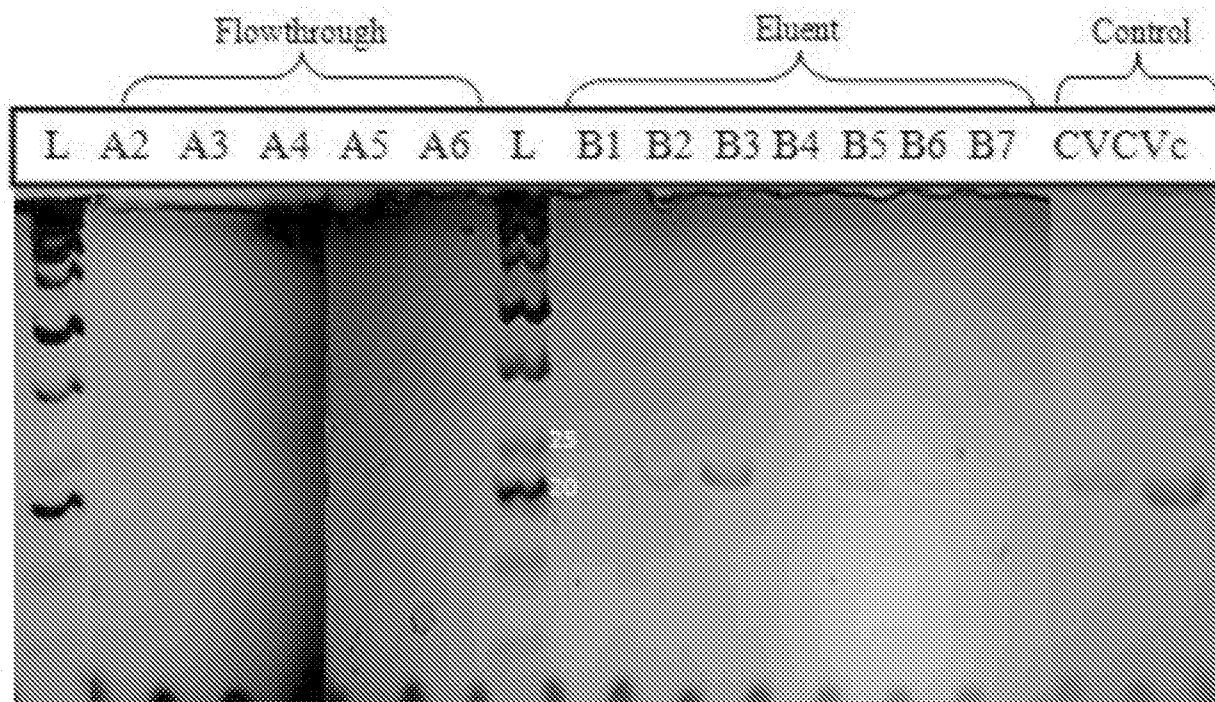


FIG. 17

A



FIG. 17 continued

B

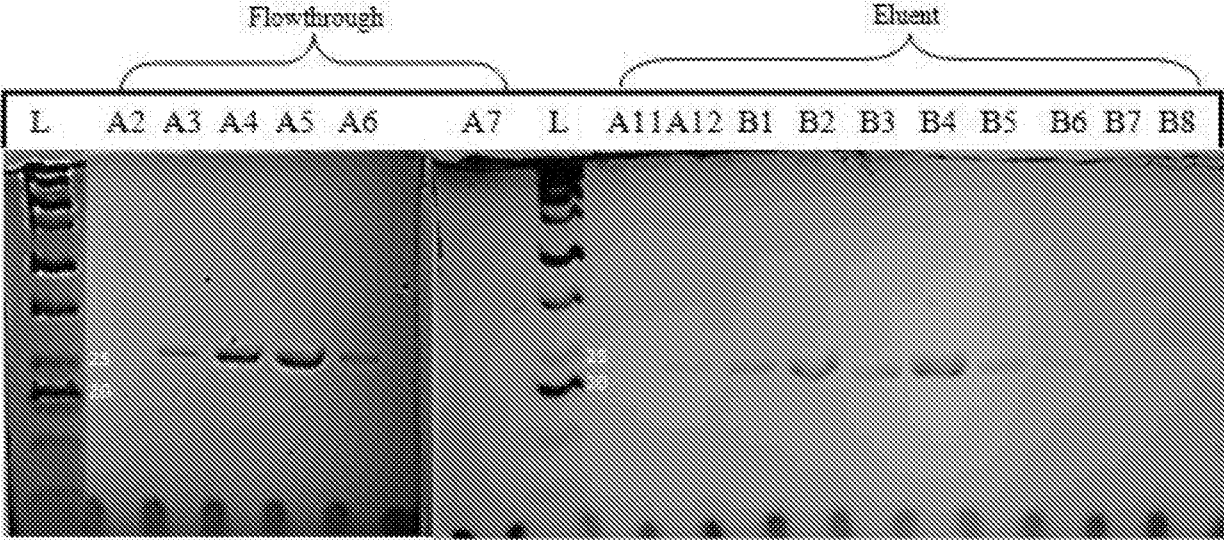


FIG. 18

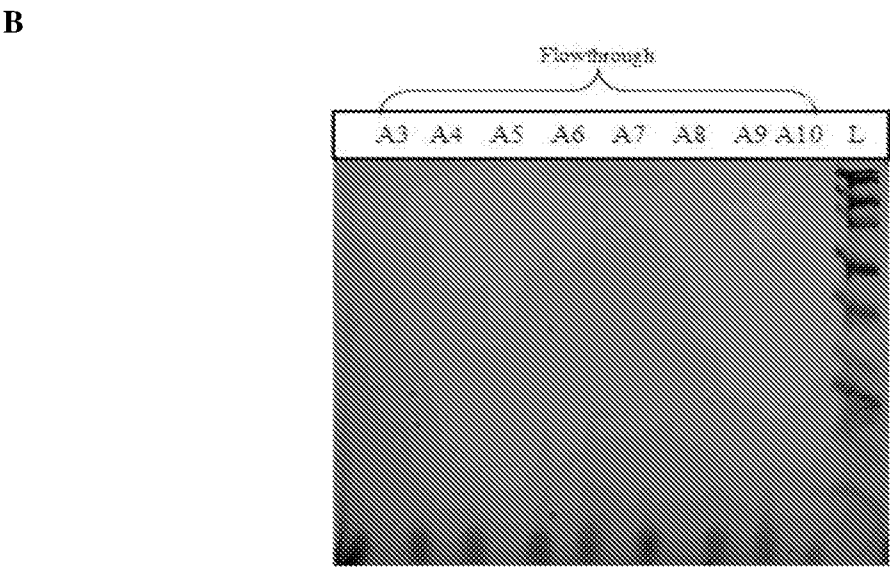
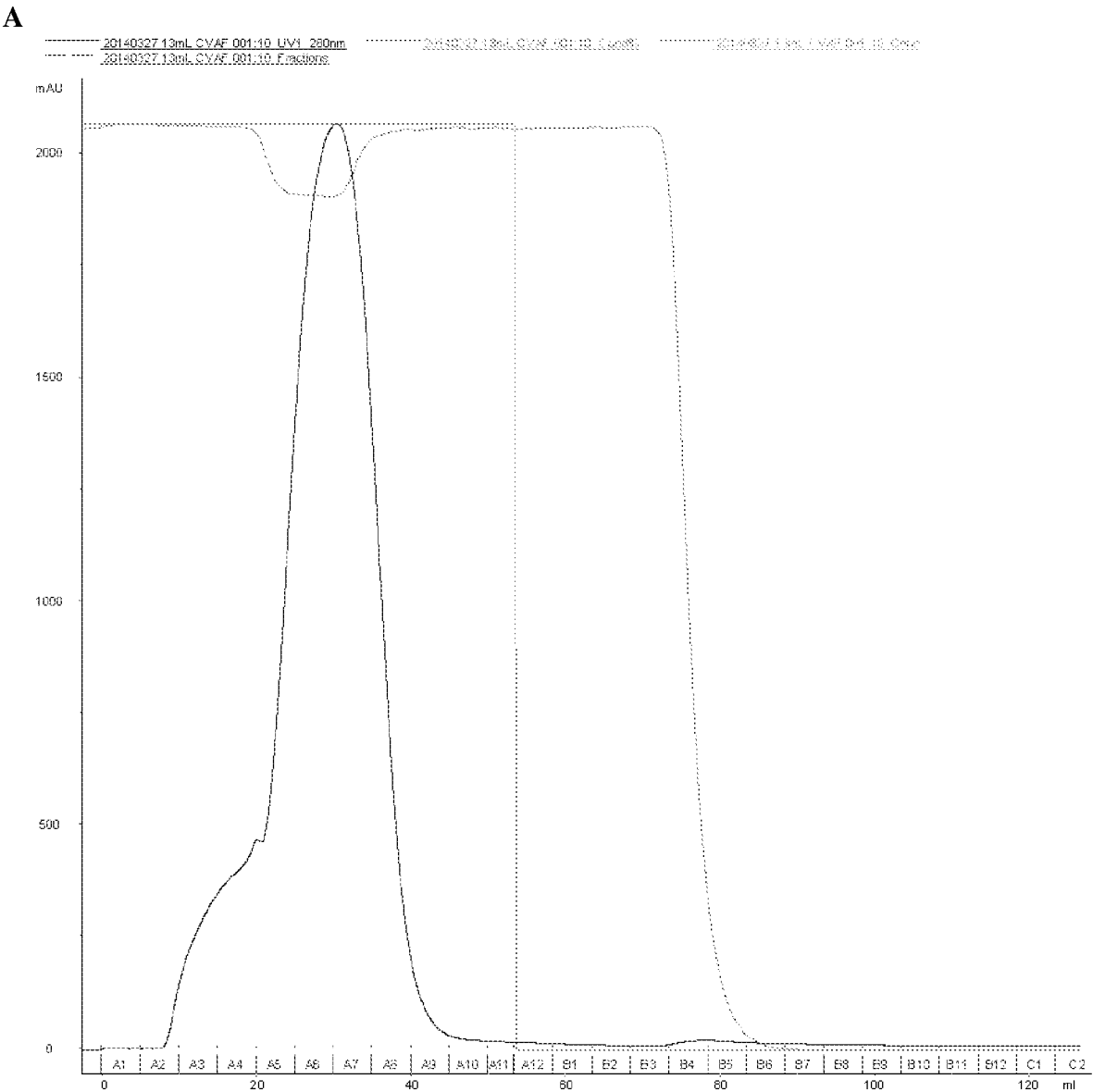


FIG. 19

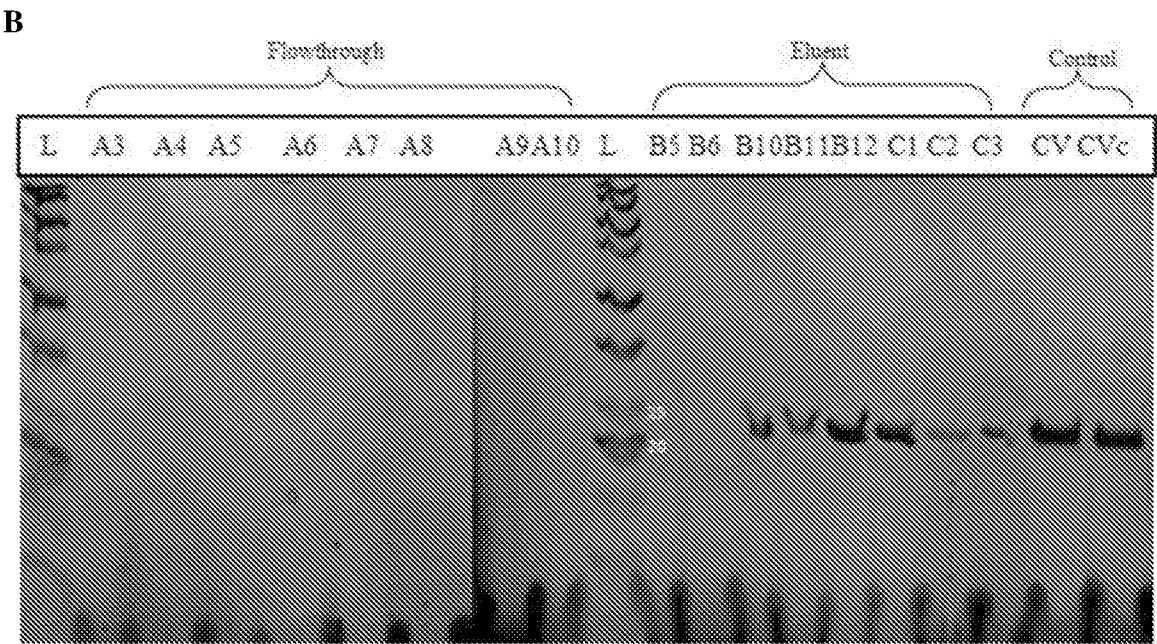
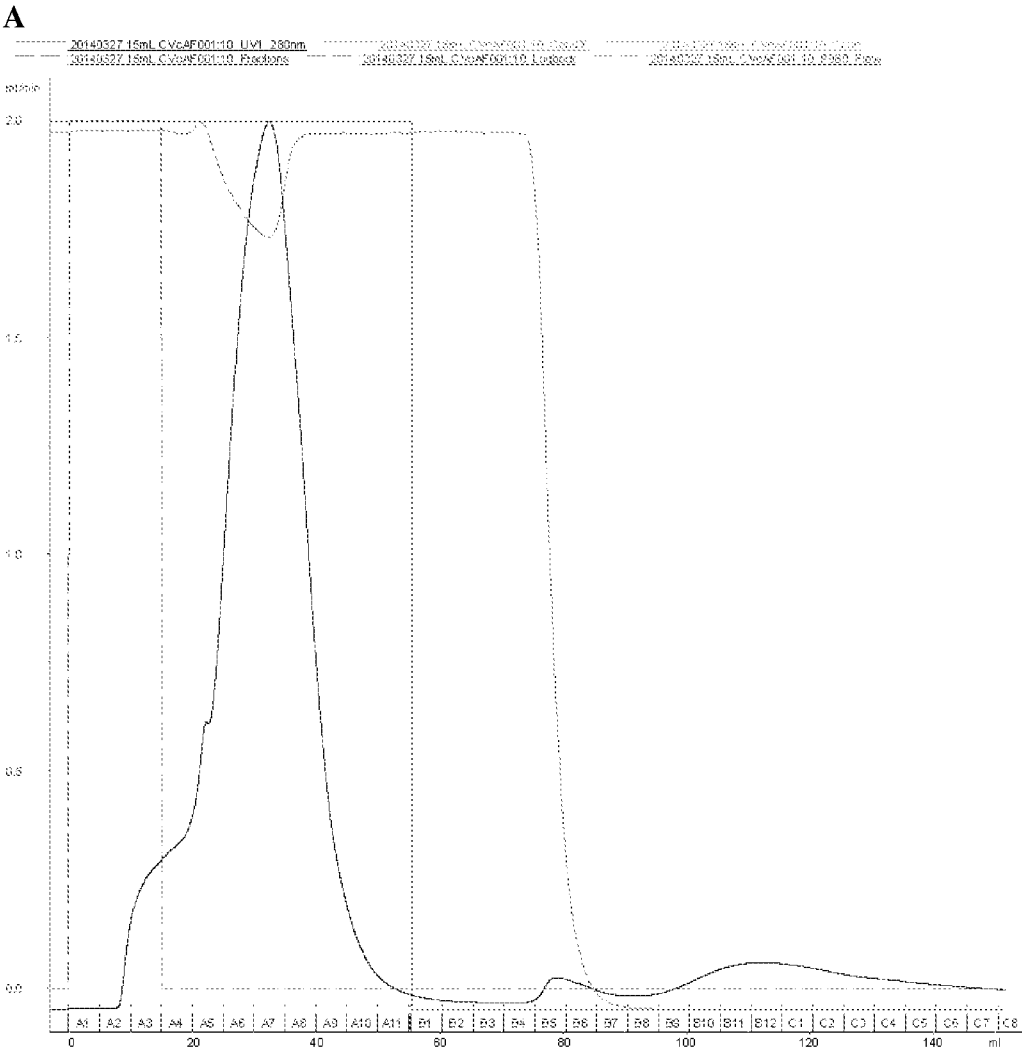
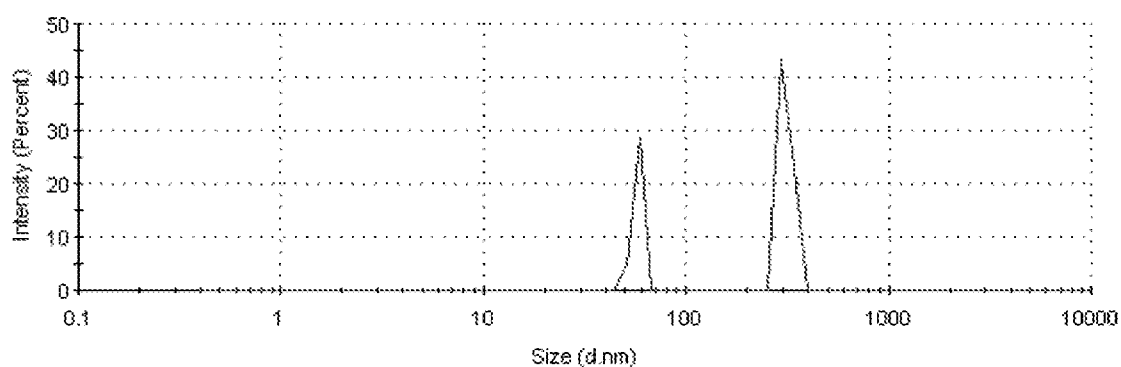


FIG. 20

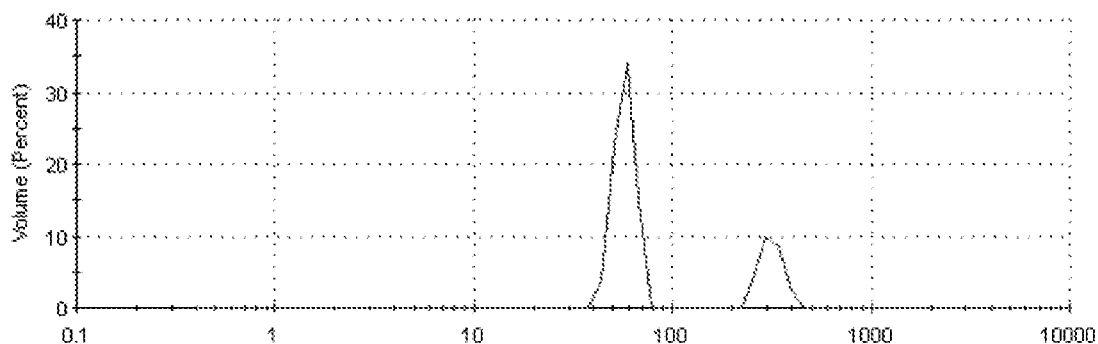
	Size (d.nm):	% Intensity:	St Dev (d.nm):
Z-Average (d.nm): 473.6	Peak 1: 311.5	66.2	22.22
PDI: 0.494	Peak 2: 57.66	33.8	2.774
Intercept: 0.940	Peak 3: 0.000	0.0	0.000
Result quality : Refer to quality report			

Size Distribution by Intensity



	Size (d.nm):	% Volume:	St Dev (d.nm):
Z-Average (d.nm): 473.6	Peak 1: 314.8	24.7	39.90
PDI: 0.494	Peak 2: 57.52	75.3	6.776
Intercept: 0.940	Peak 3: 0.000	0.0	0.000
Result quality : Refer to quality report			

Size Distribution by Volume

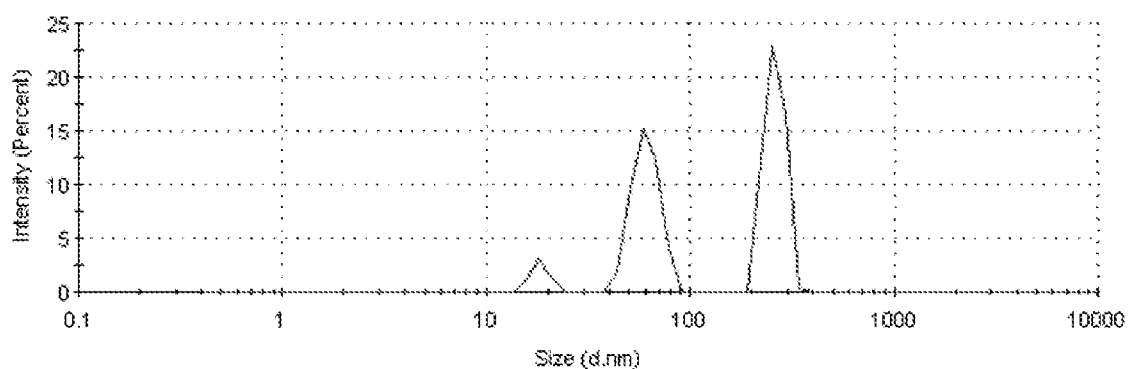


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FIG. 21

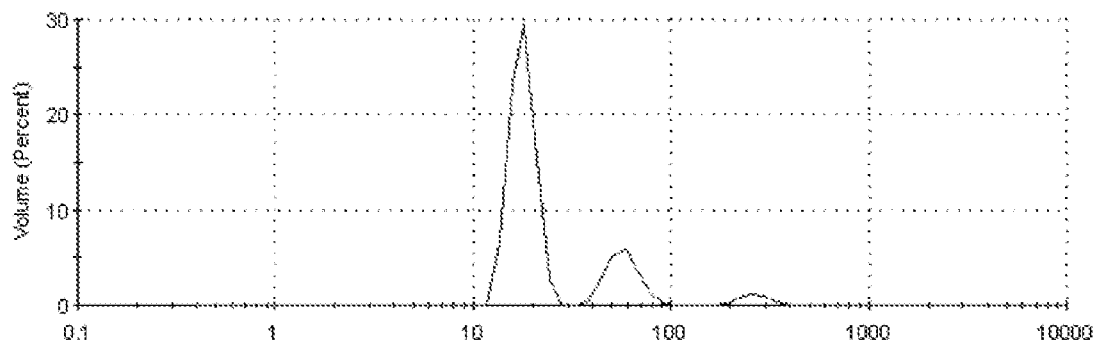
	Size (d.nm):	% Intensity:	St Dev (d.nm):
Z-Average (d.nm): 177.4	Peak 1: 260.5	51.5	28.61
PdI: 0.451	Peak 2: 60.92	42.9	9.052
Intercept: 0.772	Peak 3: 18.23	5.6	1.805
Result quality : Refer to quality report			

Size Distribution by Intensity



	Size (d.nm):	% Volume:	St Dev (d.nm):
Z-Average (d.nm): 177.4	Peak 1: 264.0	3.5	39.88
PdI: 0.451	Peak 2: 57.66	19.2	10.53
Intercept: 0.772	Peak 3: 17.81	77.3	2.551
Result quality : Refer to quality report			

Size Distribution by Volume



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FIG. 22

result	751	CATATGAGCACCAAAGATAACTTTAATGTGTACAAAGCAACCCGTCCGTA
theoretical	1	
result	801	TCTGGCACATAGCGGTGGTGC TAGCATTTCTGAAAAAATGGTTGAGGCTT
theoretical	51	
result	851	TGAACAGGCAGATAAACGCTGAAATCTACTCAGCATACCTCTACCTCTCC
theoretical	101	
result	901	ATGGCCTCTTACTTCGACTCCATCGGGCTTAAGGGCTTCTCAAACTGGAT
theoretical	151	
result	951	GAGGGTGCAAGTGGCAGGAGGAGCTGATGCATGCGATGAAGATGTTTGACT
theoretical	201	
result	1001	TTGTCAGTGAGAGGGGAGGGAGAGTTAAGCTCTACGCTGTTGAGGAGCCA
theoretical	251	
result	1051	CCATCTGAGTGGGATTCGCCTTTTGGCAGCCTTTGAGCACGTTTACGAGCA
theoretical	301	
result	1101	TGAGGTAAATGTTACGAAGAGAATTCACGAGCTTGTTGAGATGGCAATGC
theoretical	351	
result	1151	AGGAAAAGGACTTTGCAACCTACAACCTCCTGCAAGTGGTATGTTGCGGAG
theoretical	401	
result	1201	CAGGTTGAGGAGGAAGCCTCTGCCCTCGACATTGTGGAGAAGCTGAGGTT
theoretical	451	
result	1251	GATTGGAGAGGACAAAAGGGCTTTGCTTTTCCTTGATAAGGAGCTTTCTC
theoretical	501	
result	1301	TCAGGCAGTTTACTCCTCCAGCTGAGGAGGAGAAGTAAGGATCCGGATCG
theoretical	551	

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FIG. 23

result	151	CTCGCACCCATATGAGCACCAAAGATAACTTTAATGTGTACAAAAGCGGT
theoretical	1	-----CATATGAGCACCAAAGATAACTTTAATGTGTACAAAAGCGGT
result	201	GGTGCTAGCATTTCTGAAAAAATGGTTGAGGCTTTGAACAGGCAGATAAA
theoretical	43	GGTGCTAGCATTTCTGAAAAAATGGTTGAGGCTTTGAACAGGCAGATAAA
result	251	CGCTGAAATCTACTCAGCATACCTCTACCTCTCCATGGCCTCTTACTTCG
theoretical	93	CGCTGAAATCTACTCAGCATACCTCTACCTCTCCATGGCCTCTTACTTCG
result	301	ACTCCATCGGGCTTAAGGGCTTCTCAAAC TGGATGAGGGTGCAGTGGCAG
theoretical	143	ACTCCATCGGGCTTAAGGGCTTCTCAAAC TGGATGAGGGTGCAGTGGCAG
result	351	GAGGAGCTGATGCATGCCATGAAGATGTTTGACTTTGTCA GTGAGAGGGG
theoretical	193	GAGGAGCTGATGCATGCCATGAAGATGTTTGACTTTGTCA GTGAGAGGGG
result	401	AGGGAGAGTTAAGCTCTACGCTGTTGAGGAGCCACCATCTGAGTGGGATT
theoretical	243	AGGGAGAGTTAAGCTCTACGCTGTTGAGGAGCCACCATCTGAGTGGGATT
result	451	CGCCTTTGGCAGCCTTTGAGCACGTTTACGAGCATGAGGTAAATGTTACG
theoretical	293	CGCCTTTGGCAGCCTTTGAGCACGTTTACGAGCATGAGGTAAATGTTACG
result	501	AAGAGAATTCACGAGCTTGTTGAGATGGCAATGCAGGAAAAGGACTTTGC
theoretical	343	AAGAGAATTCACGAGCTTGTTGAGATGGCAATGCAGGAAAAGGACTTTGC
result	551	AACCTACAACCTTCTGCAGTGGTATGTTGCCGAGCAGGTTGAGGAGGAAG
theoretical	393	AACCTACAACCTTCTGCAGTGGTATGTTGCCGAGCAGGTTGAGGAGGAAG
result	601	CCTCTGCCCTCGACATTGTGGAGAAGCTGAGGTTGATTGGAGAGGACAAA
theoretical	443	CCTCTGCCCTCGACATTGTGGAGAAGCTGAGGTTGATTGGAGAGGACAAA
result	651	AGGGCTTTGCTTTTCCTTGATAAGGAGCTTTCCTCAGGCAGTTTACTCC
theoretical	493	AGGGCTTTGCTTTTCCTTGATAAGGAGCTTTCCTCAGGCAGTTTACTCC
result	701	TCCAGCTGAGGAGGAGAAGTAAGGATCCGGATCGACGAGAGCAGCGCGAC
theoretical	543	TCCAGCTGAGGAGGAGAAGTAAGGATCC-----

FIG. 24

SEQ ID NO:	NAME (SEQUENCE TYPE)	SEQUENCE
1	E2EP3 (DNA)	AGCACCAAAGATAACTTTAATGTGTACAAA GCAACCCGTCCGTATCTGGCACAT
2	E2EP3 mutant (DNA)	AGTATTAAGGACCACTTCAATGTCTATAAAGCCACAA GACCGTACCTAGCTCAC
3	E2EP4 (DNA)	TGGGGCAACAACGAGCCGTATAAGTATTGGCCGCAG TTATCTACAAACGGTACA
4	E2EP5 (DNA)	CTCCTGTTCGATGGTGGGTATGGCAGCGGGGATGTGCA TGTGTGCACGACGCAGA
5	E2EP5 mutant (DNA)	CTCCTGTTCGATGGTGGGTGTGGCAGTGGGGATGTGCA TGTGTGCACGACGCAGA
6	CV (DNA)	AGCACCAAAGATAACTTTAATGTGTACAAA
7	E2EP3 (protein)	STKDNFNVYKATRPYLAH
8	E2EP3 mutant (protein)	SIKDHFNVYKATRPYLAH
9	E2EP4 (protein)	WGNNEPYKYWPQLSTNGT
10	E2EP5 (protein)	LLSMVGMAAGMCMCARRR
11	E2EP5 mutant (protein)	LLSMVGVAVGMCMCARRRK
12	CV (protein)	STKDNFNVYK
13	Mutated ferritin (DNA)	ATGGCATCCATTTCTGAAAAAATGGTTGAGGCTTTGA ACAGGCAGATAAACGCTGAAATC TACTCAGCATACCTCTACCTCTCCATGGCCTCTTACTT CGACTCCATCGGGCTTAAGGGC TTCTCAAACCTGGATGAGGGTGCAGTGGCAGGAGGAG CTGATGCATGCGATGAAGATGTTT GACTTTGTTCAGTGAGAGGGGAGGGAGAGTTAAGCTC TACGCTGTTGAGGAGCCACCATCT GAGTGGGATTCGCCTTTGGCAGCCTTTGAGCACGTTT ACGAGCATGAGGTAAATGTTACG AAGAGAATTCACGAGCTTGTTGAGATGGCAATGCAG GAAAAGGACTTTGCAACCTACAAC TTCCTGCAGTGGTATGTTGCGGAGCAGGTTGAGGAGG AAGCCTCTGCCCTCGACATTGTG GAGAAGCTGAGGTTGATTGGAGAGGACGCGGCGGCT TTGCTTTTCCTTGATAAGGAGCTT TCTCTCAGGCAGTTTACTCCTCCAGCTGAGGAGGAGA AGTAATGA

FIG. 24 continued

SEQ ID NO:	NAME (SEQUENCE TYPE)	SEQUENCE
14	Mutated ferritin (protein)	MASISEKMVEALNRQINAEIYSAYLYLSMASYFDSIGLK GFSNWMRVQWQEELMHAMKMF DFVSERGGRVKLYAVEEPPSEWDSPLAAFEHVYEHEVN VTKRIHELVEAMAMQEKFATYN FLQWYVAEQVEEEASALDIVEKLRLIGEDAAALLFLDK ELSLRQFTPPAEEEEK**
15	Wild type ferritin (DNA)	ATGGCATCCATTTCTGAAAAAATGGTTGAGGCTTTGA ACAGGCAGATAAACGCTGAAATC TACTCAGCATACCTCTACCTCTCCATGGCCTCTTACTT CGACTCCATCGGGCTTAAGGGC TTCTCAAACCTGGATGAGGGTGCAGTGGCAGGAGGAG CTGATGCATGCGATGAAGATGTTT GACTTTGTGAGTGAGAGGGGAGGGAGAGTTAAGCTC TACGCTGTTGAGGAGCCACCATCT GAGTGGGATTTCGCCTTTGGCAGCCTTTGAGCACGTTT ACGAGCATGAGGTAAATGTTACG AAGAGAATTCACGAGCTTGTTGAGATGGCAATGCAG GAAAAGGACTTTGCAACCTACAAC TTCCTGCAGTGGTATGTTGCGGAGCAGGTTGAGGAGG AAGCCTCTGCCCTCGACATTGTG GAGAAGCTGAGGTTGATTGGAGAGGACAAAAGGGCT TTGCTTTTCCTTGATAAGGAGCTT TCTCTCAGGCAGTTTACTCCTCCAGCTGAGGAGGAGA AGTAATGA
16	Wild type ferritin (protein)	MASISEKMVEALNRQINAEIYSAYLYLSMASYFDSIGLK GFSNWMRVQWQEELMHAMKMF DFVSERGGRVKLYAVEEPPSEWDSPLAAFEHVYEHEVN VTKRIHELVEAMAMQEKFATYN FLQWYVAEQVEEEASALDIVEKLRLIGEDKRALLFLDK ELSLRQFTPPAEEEEK**
17	Mutagenesis primer forward	gattggagaggacGCGGCGgctttgcttttc
18	Mutagenesis primer reverse	gaaaagcaaagcCGCCGCgtctctccaatc
19	CVAf (protein)	STKDNFNVYKATRPYLAHSGGASISEKMVEALNRQINA EIYSAYLYLSMASYFDSIGLKGFSNWMRVQWQEELMH AMKMFDVDFVSERGGRVKLYAVEEPPSEWDSPLAAFEHV YEHEVNVTKRIHELVEAMAMQEKFATYNFLQWYVAEQ VEEEASALDIVEKLRLIGEDKRALLFLDKELSLRQFTPPA EEEEK
20	CVcAf (protein)	STKDNFNVYKSGGASISEKMVEALNRQINAEIYSAYLYL SMASYFDSIGLKGFSNWMRVQWQEELMHAMKMFDV SERGGRVKLYAVEEPPSEWDSPLAAFEHVYEHEVNVTK RIHELVEAMAMQEKFATYNFLQWYVAEQVEEEASALD IVEKLRLIGEDKRALLFLDKELSLRQFTPPAEEEEK