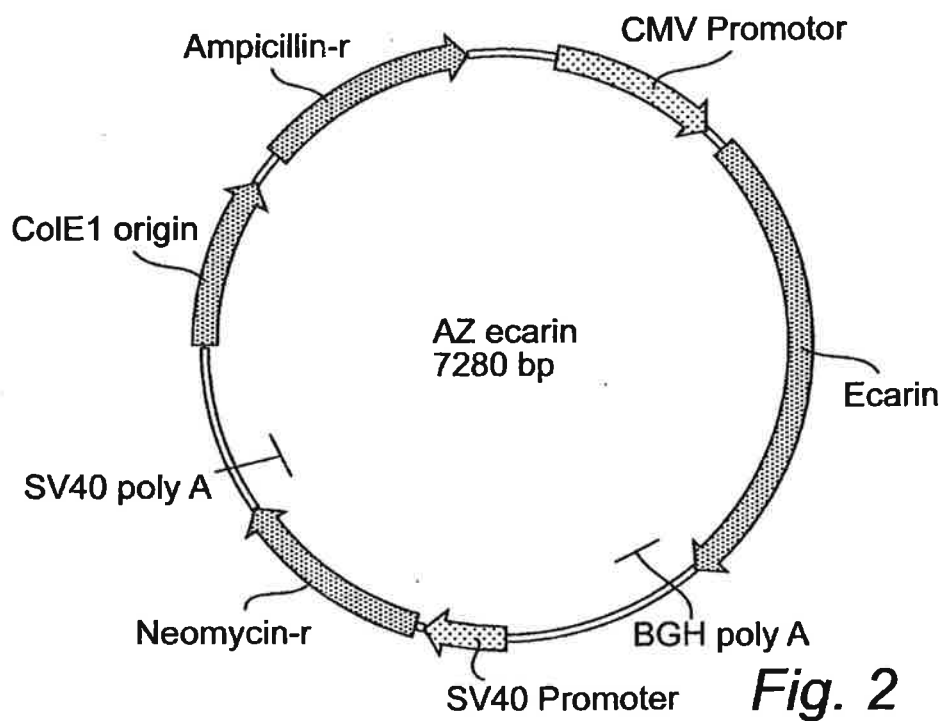
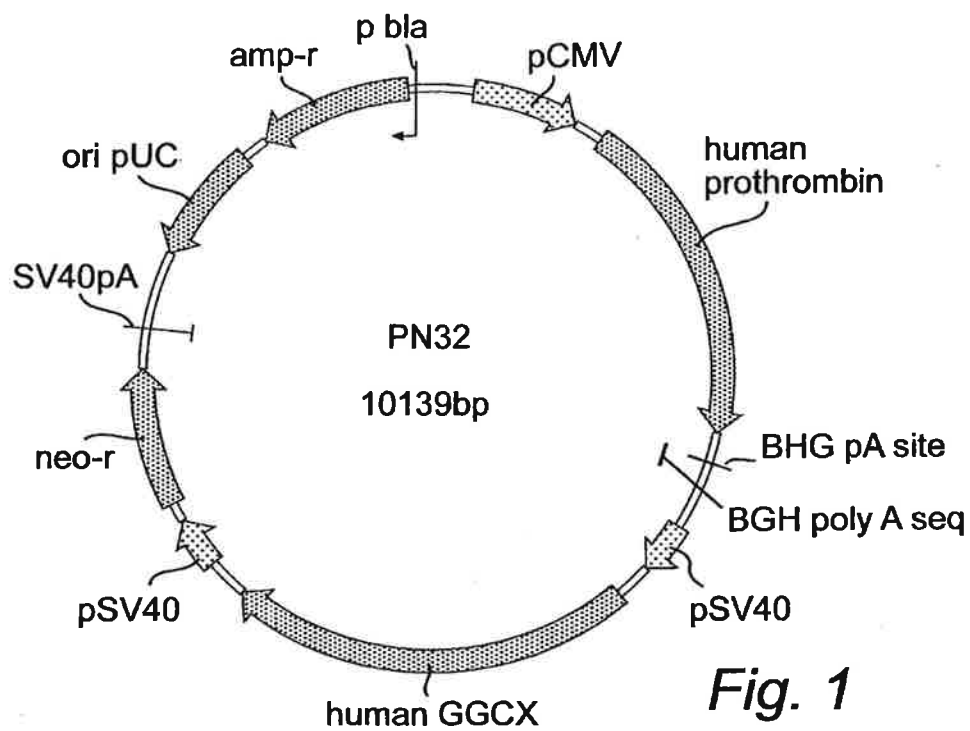
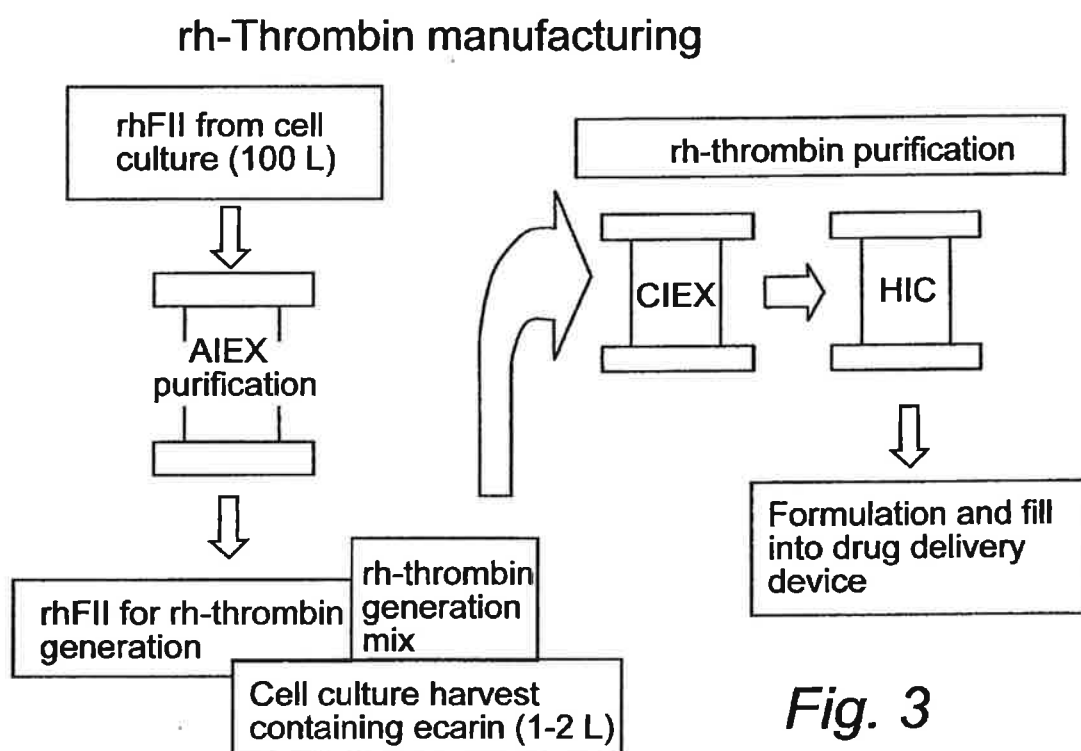


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*Fig. 3*

score = 744 bits (387), Expect = 0.0
 identities = 1365/1848 (73%), Gaps = 0/1848 (0%)
 Strand=Plus/Plus

Fig. 4

AZ ecarin	ATGATCCAGATCCCTGCTGGTGAATCAATCTGGCTTGGCCGTGTTCCTCCCTTACCAGGGCTTGCCTCC	60
WT ecarin		
	ATGATCCAGATTCCTCTTGGTAAATTATATATGCTTAGCAGTCTTTTCCATATCAAGGTTGCTCT	60
AZ ecarin	ATCATCCTGGGCAGCGGCAACGTGAACGACTACGAGGTGGTGTACCCCCAGAAAGGTGACC	120
WT ecarin		
	ATAATCCTGGGATCTGGGAATGTAAATGATTATGAAGTAGTGTATCCACAAAAAAGTCACT	120
AZ ecarin	GCCCTGCCCCNAGGGCGCCCTGCAGCAGCCCGAGCAGAAATACGAGGACGGCCATGCTAGTAC	180
WT ecarin		
	GCATTGCCCCAAAGGAGCAGTTCAGCAGCCCTGAGCAGAAAGTATGAAGATGCCATGCCAATAT	180
AZ ecarin	GAGTTCGAGCTGAAGGGGAGCCCGTGGTCTGCACTGGAGAGAAACAAGGAGCTGTTC	240
WT ecarin		
	GAATTGAAGTGAAGGGAGAGCCAGTGGTCTTCACCTAGAAAAAATAAAGAACTTTT	240
AZ ecarin	AGCGAGGACTACAGCGAGACCCACTACAGCAGCGAGCAGGAGATCACCACCAACCCC	300
WT ecarin		
	TCAGAAAGATTACAGTGAAGACTCATTATTCTGTCTGATGACAGAGAAATTACAAACCCCT	300
AZ ecarin	AGCGTGGAGGACCACTGCTACTACCAUGGCCGGATCCAGAACGACCCCGAGAGCAACCGCC	360
WT ecarin		
	TCAGTTGAGGATCACTGCTATTATCATGAGCGGATCCAGAAATGATGCTGAGTCAACTGCA	360
AZ ecarin	AGCATCAGCGCCCTGTAATGGCCCTGAAGGGCCCACTTCAAGCTGAGAGGGGAGACCTACTTC	420
WT ecarin		
	AGCATCAGTGCATGCAATGGTTTGAAGGACATTTCAAGCTTCGAGGGGAGACGTACTTT	420

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AZ ecarin	ATCGAGCCCTGAAAGATCCCGACAGCGAGGCCCCACGCCGTGTACAAGTACGAGAACATC	480
WT ecarin		480
AZ ecarin	ATTGAACCCCTTGAAGATTCCCGACAGCTGAAGCCCATGCGAGTCTACAAATATGAAAACATA	540
WT ecarin		540
AZ ecarin	GAGAACGAGGACGAGGCCCTTAAGATGTGTGGCGTGACCCAGGACAACTGGGGAGAGCGAC	600
WT ecarin		600
AZ ecarin	GAAATGAGGATGAAGCCCCCCAAAATGTGTGGGGTAACCCAGGATAAATTGGGGAATCAGAT	660
WT ecarin		660
AZ ecarin	GAGCCCATCAAGAAAACCCCTGGCCCTGATCGTGNnnnnnnnACGAGAGAAAGTTCGAGAAG	720
WT ecarin		720
AZ ecarin	GAACCCATCAATAAHGACCTTGGGGTTAAATTGTCTCTCTCATGHAAGAAAATTTGAGAAA	780
WT ecarin		780
AZ ecarin	AAGTTCATCGAACTGGTGGTGGTGGACCAACAGCATGGTCAACCAAGTACAAACAACGAC	840
WT ecarin		840
AZ ecarin	AAATTCAATTGAGCTTGCTGCTAGTTGTGGACCAACAGTATGGTCACAAAAATACAACAATGAT	900
WT ecarin		900
AZ ecarin	AGCAACGCCCATCAAGCAACCTCCATCTATACAGATGCTGAACACCGCTCAACCAATCTAAGCTC	960
WT ecarin		960
AZ ecarin	TCAACTGCTATAGAACAATGGATATATGAATGCTCAACACTGTAAATGAGATATACTTA	1020
WT ecarin		1020
AZ ecarin	CCCTTCAACATCAGAGTGGCCCTGGTGGGCTGGAGTTCGTGGTGTAAACGGCGACCTGATC	1080
WT ecarin		1080
AZ ecarin	CCCTTCAACATCAGAGTGGCCCTGGTGGGCTGGAGTTCGTGGTGTAAACGGCGACCTGATC	1140
WT ecarin		1140
AZ ecarin	AACGTGACCAAGCACCGCCGACGACACCCCTGCACAGCTTCGGCGAGTGGAGAGCCAGCGAC	1200
WT ecarin		1200
AZ ecarin	AACGTGACATCCACAGCAGATGATACTTTTGCACCTCATTTTGGAGAAATGGAGAGCATCAGAT	1260
WT ecarin		1260

Fig. 4

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Fig. 4

Fig. 4

AZ ecarin		GACATCGCCAGCCCCTGCCGTGTTGGCAATCAGATCTGGAGGAGGGCGAGGAGTGTGCAC	1260
WT ecarin			
		GATATTGCTTCACCCTGCAGTTTTGTGGAATAAGAAATTTGGAGSAAAGAGAATSTGAT	1260
AZ ecarin		TGTGSCAGCCCCAGCGACTGTAGAAAACCCCTGCTGTGTGATGCGCCACCTGTAAAGCTGAAG	1320
WT ecarin			
		TGTGGTTCTCCCTGCAGATTGTCCGAAATCCATGCTGTGTGATGCTGCAACAATGTAAAACTGAAA	1320
AZ ecarin		CCTGGCGCCGAGTGTTGGCAAACGGCGAGTGCTGTGACAAAGTGTAAGATCCGGAAAGGCCGGCC	1380
WT ecarin			
		CCAGGGGCAGAAATGTGGAAATGGAGAGTGTTGTGACAAAGTGCAAGATTAGGAAAGCACGGA	1380
AZ ecarin		ACCGAGTGTAGACCCGCCAAGGACGGATTGTGACGTGGCCGAGCACTGTACCCGGCCAGAGC	1440
WT ecarin			
		ACAGATATCCCGCCACGCAAGGANTGCHCTGTGTATGTCOCCTGACACTGCHCTGCGCCAACTCT	1440
AZ ecarin		GCCGAGTGCCCCCAGAAACGAGETTCACAGAGGAACGGCCAGCCCTTGCCTGAAACACAGCGGCC	1500
WT ecarin			
		GCTGAGTGTCCTCCAGARATGAGTTCCAAAAGGAATGGACAACCATGCGCTTAACAACACTCGGGGT	1500
AZ ecarin		TACTGTACAAACGGCGACTGCCCCCATCATGTCTGTAACCAAGTGATCGCCCTGTTCAGCCCC	1560
WT ecarin			
		TATTGCTACAAATGGGGATTGCCCCCATCATGTGTAAACCAATGPTATTGCTCTCTTTAGTCCA	1560
AZ ecarin		AGCGCCACCCGTGGCCCGACAGAGTGCTTCQAGAGAAACCTGCAGGGCGAGCTACTACGGCC	1620
WT ecarin			
		AGTSCAACTGTGGCTCAAGATTTCATGTTTTTCAGAGGAACTTGCAAGGCAGTTACTATGGC	1620

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AZ ecanin	TACTGTACCAAGGAGATCGGCTACTACGGAAAGAGGTTCCCTGTGCCCCCTCAGGACGTG	1680
WT ecanin		
AZ ecanin	TACTGCACAAAGGAAATTGGTTACTATGGTAAAGGTTTCCATGTGACCCACAAAGATGTA	1680
WT ecanin		
AZ ecanin	AAGTGTGGCAGGCTGTACTGCTGGACAACTCCTTCAAGAAACACATGAGGTGTAAAGAC	1740
WT ecanin		
AZ ecanin	AAATGTGGCAGATTATACTGCTTAGATAATTCTATTCAAAATAATGCGTTGCCAAGAAC	1740
WT ecanin		
AZ ecanin	GACTACAGCTACGCCGACGAGAACAAAGGGCATCGTGGAGCCCGGCACCAAGTGTGAGGAC	1800
WT ecanin		
AZ ecanin	GACTATTTCATACGGGATGAAATAAGGGAATAGTTGAACCTGGAAACAAATGTGAAGAT	1800
WT ecanin		
AZ ecanin	GGCAAAGTGTGTATCAACCCGGAAGTGTGTGGACGTGAACACCCGCTAC	1848
WT ecanin		
AZ ecanin	GGAAAGGTCTGTGCATCAACACGGAAGTGTGTGTGATGTGAAATACAGCCTAC	1848
WT ecanin		

Fig. 4

gi12170501dbj1032212.1|EHCEC Echis carinatus mRNA for ecarin **Fig. 5**
length=2349

Score = 1315 bits (3404), Expect = 0.0
Identities = 616/616 (100%), Positives = 616/616 (100%), Gaps = 0/616 (0%)
Frame = +3

AZ ecarin	1	MIQILLVIICLAVFPYQGCSIILGSGNVNDYEVVYPQKVLTALPKGAVQQPEQKYEDAMQY	60
WT ecarin		MIQILLVIICLAVFPYQGCSIILGSGNVNDYEVVYPQKVLTALPKGAVQQPEQKYEDAMQY	
	111	MIQILLVIICLAVFPYQGCSIILGSGNVNDYEVVYPQKVLTALPKGAVQQPEQKYEDAMQY	290
AZ ecarin	61	EFVKGEPVVLHLEKNKELFSEDYSETHYSSDDREITTNPSVEDHCYYHGRIONDAESTA	120
WT ecarin		EFVKGEPVVLHLEKNKELFSEDYSETHYSSDDREITTNPSVEDHCYYHGRIONDAESTA	
	291	EFVKGEPVVLHLEKNKELFSEDYSETHYSSDDREITTNPSVEDHCYYHGRIONDAESTA	470
AZ ecarin	121	SISACNGLKGHFKLRGETYFIEPLKIPDSEAHAVYKYENIENEDEAPKMGVTQDNWESD	180
WT ecarin		SISACNGLKGHFKLRGETYFIEPLKIPDSEAHAVYKYENIENEDEAPKMGVTQDNWESD	
	471	SISACNGLKGHFKLRGETYFIEPLKIPDSEAHAVYKYENIENEDEAPKMGVTQDNWESD	650
AZ ecarin	181	EPIKKTGLIVPPHERKFEKKFIELVVVDHSMVTKYNNNDSTAIRTWIYEMLNTVNEIYL	240
WT ecarin		EPIKKTGLIVPPHERKFEKKFIELVVVDHSMVTKYNNNDSTAIRTWIYEMLNTVNEIYL	
	651	EPIKKTGLIVPPHERKFEKKFIELVVVDHSMVTKYNNNDSTAIRTWIYEMLNTVNEIYL	830
AZ ecarin	241	PFNIRVALVGLFVCNGDLINVTSTADDTLHSFGENRASDLLNRRKRDHAQLLTNVTLDH	300
WT ecarin		PFNIRVALVGLFVCNGDLINVTSTADDTLHSFGENRASDLLNRRKRDHAQLLTNVTLDH	
	831	PFNIRVALVGLFVCNGDLINVTSTADDTLHSFGENRASDLLNRRKRDHAQLLTNVTLDH	1010

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AZ ecatin WT ecatin	301	STLGITFVYGMCKSDRSVELILDYSNITFNMAI	360
		STLGITFVYGMCKSDRSVELILDYSNITFNMAI	
	1011	STLGITFVYGMCKSDRSVELILDYSNITFNMAI	1190
AZ ecatin WT ecatin	361	MFGKESIPPPKEFSYDQYNKYLLKYNPKCILD	420
		MFGKESIPPPKEFSYDQYNKYLLKYNPKCILD	
	1191	MFGKESIPPPKEFSYDQYNKYLLKYNPKCILD	1370
AZ ecatin WT ecatin	421	CGSPADCRNPCCDAATCKLKPGECEGCECCDK	480
		CGSPADCRNPCCDAATCKLKPGECEGCECCDK	
	1371	CGSPADCRNPCCDAATCKLKPGECEGCECCDK	1550
AZ ecatin WT ecatin	481	AECPRNEFORNGQPCLNNSGYCYNGDCPIMLN	540
		AECPRNEFORNGQPCLNNSGYCYNGDCPIMLN	
	1551	AECPRNEFORNGQPCLNNSGYCYNGDCPIMLN	1730
AZ ecatin WT ecatin	541	YCTKEIGYYGKRFPAPQDVKCCGRLYCLDNS	600
		YCTKEIGYYGKRFPAPQDVKCCGRLYCLDNS	
	1731	YCTKEIGYYGKRFPAPQDVKCCGRLYCLDNS	1910
AZ ecatin WT ecatin	601	GKVCINRKCVDVNTAY	616
		GKVCINRKCVDVNTAY	
	1911	GKVCINRKCVDVNTAY	1958

Fig. 5

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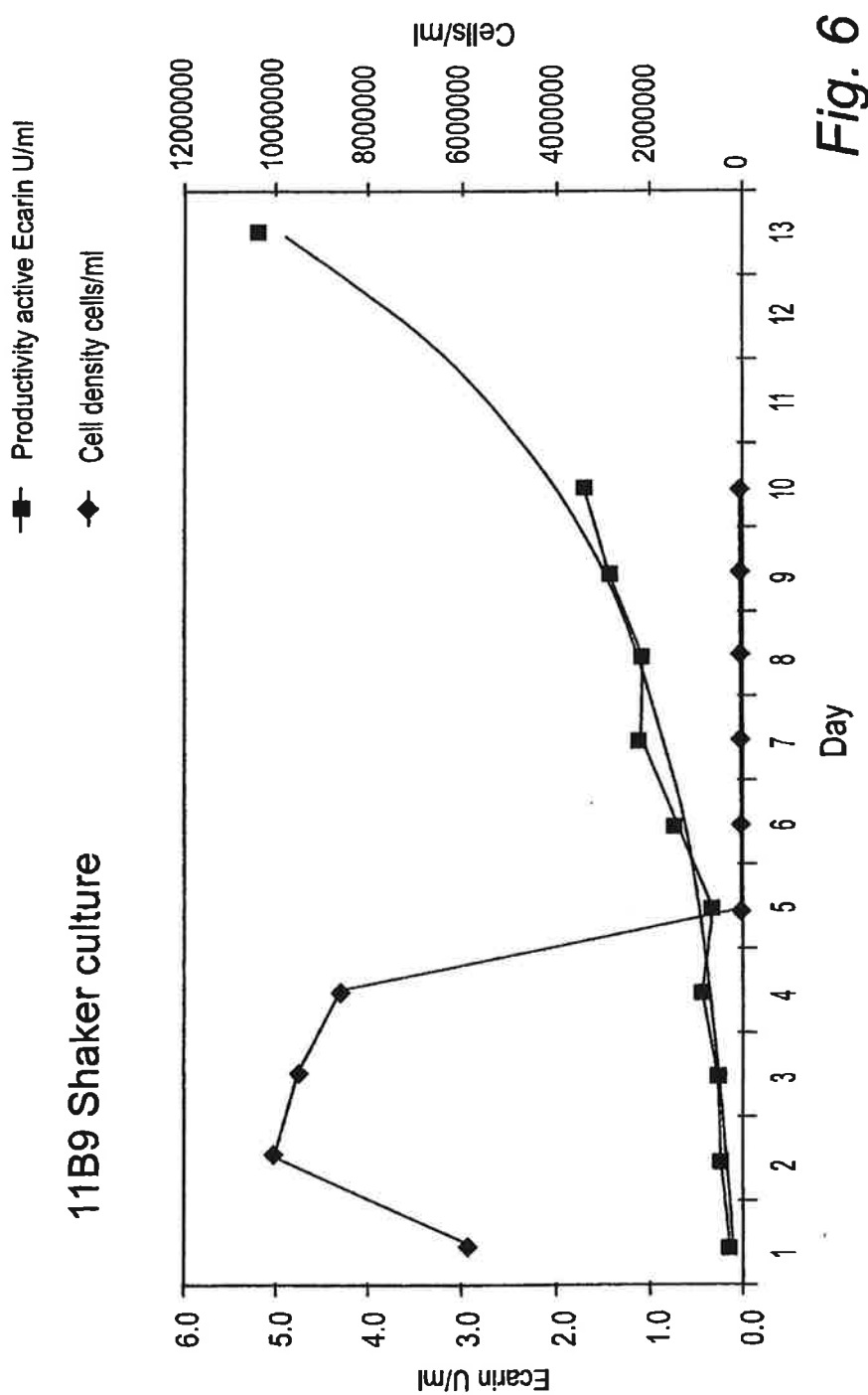


Fig. 6

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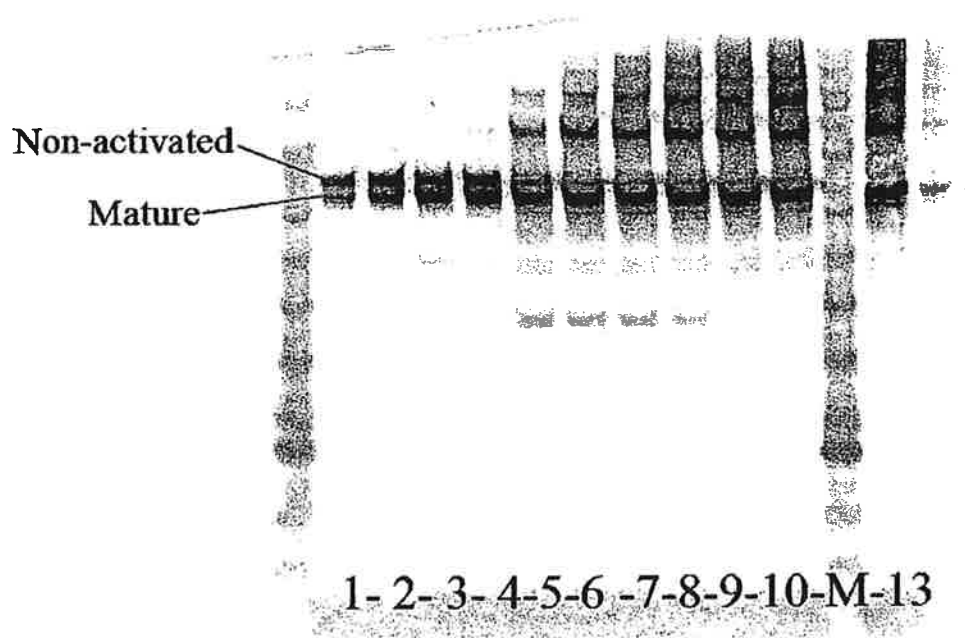
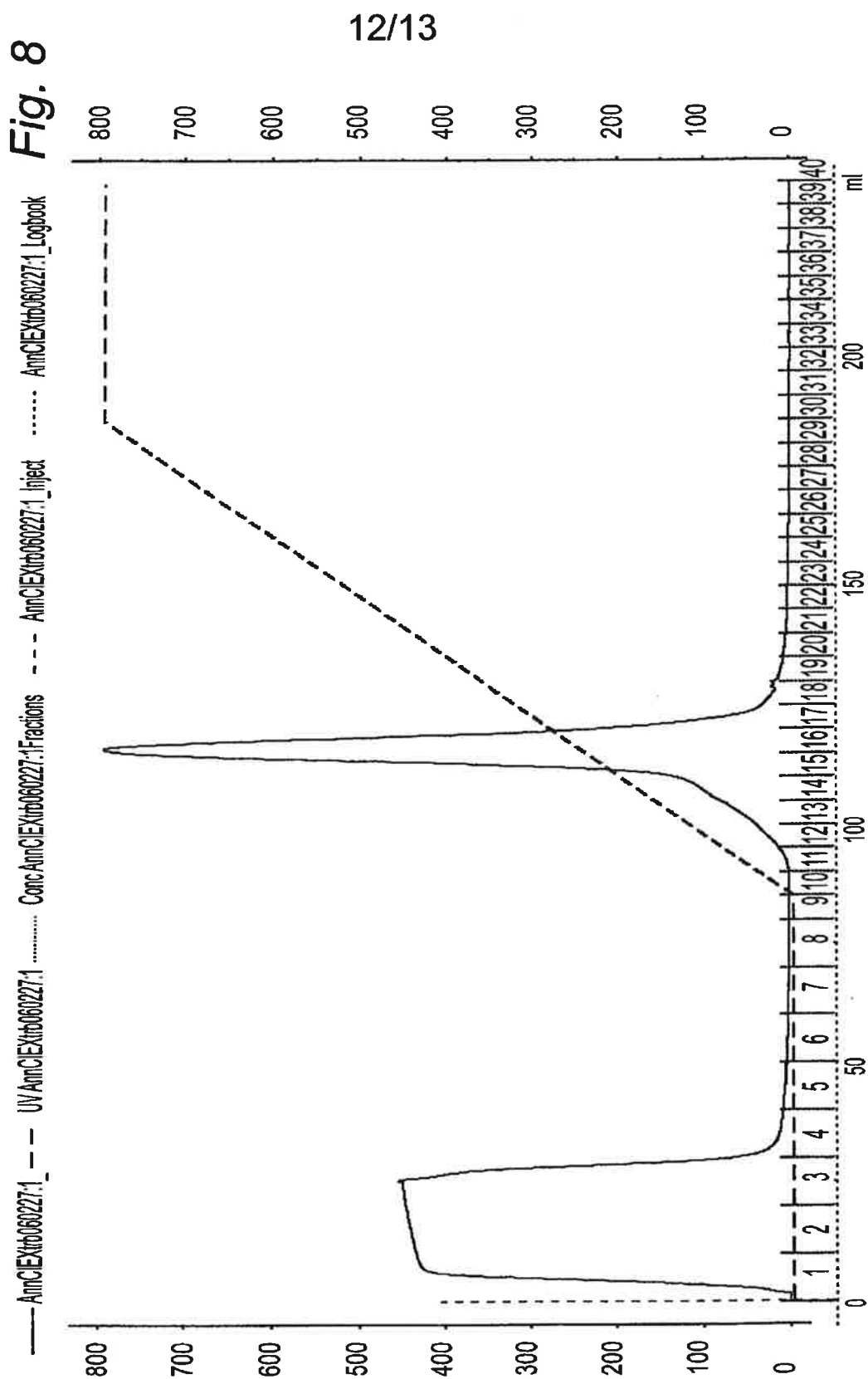
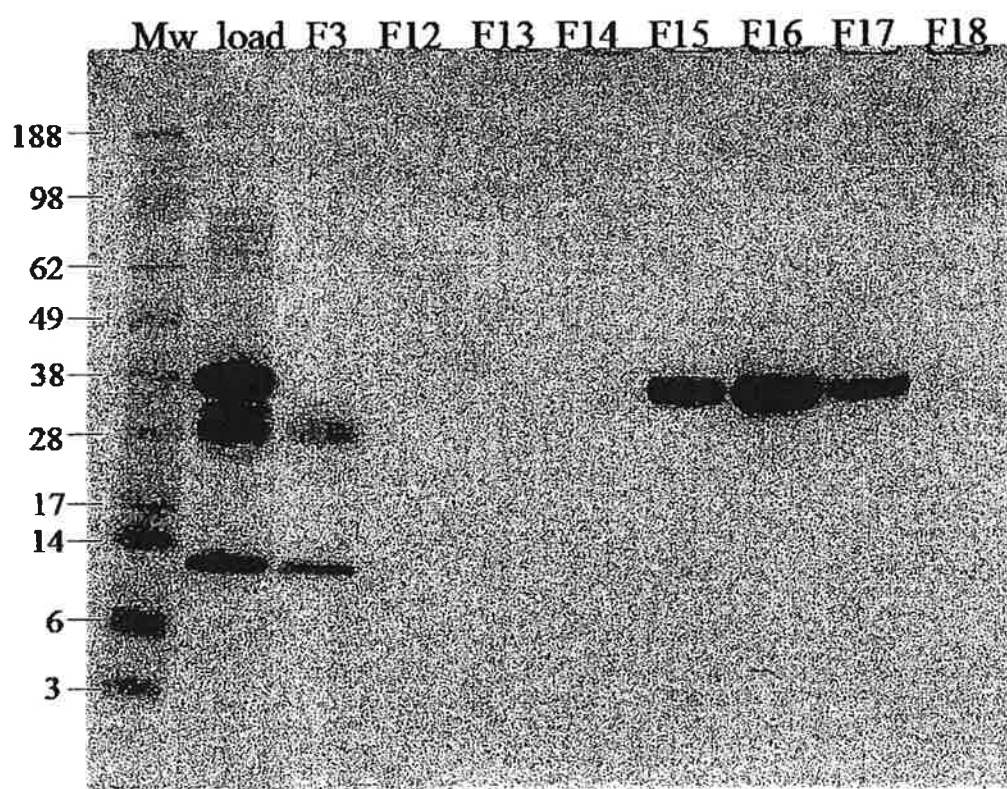


Fig. 7



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*Fig. 9*