

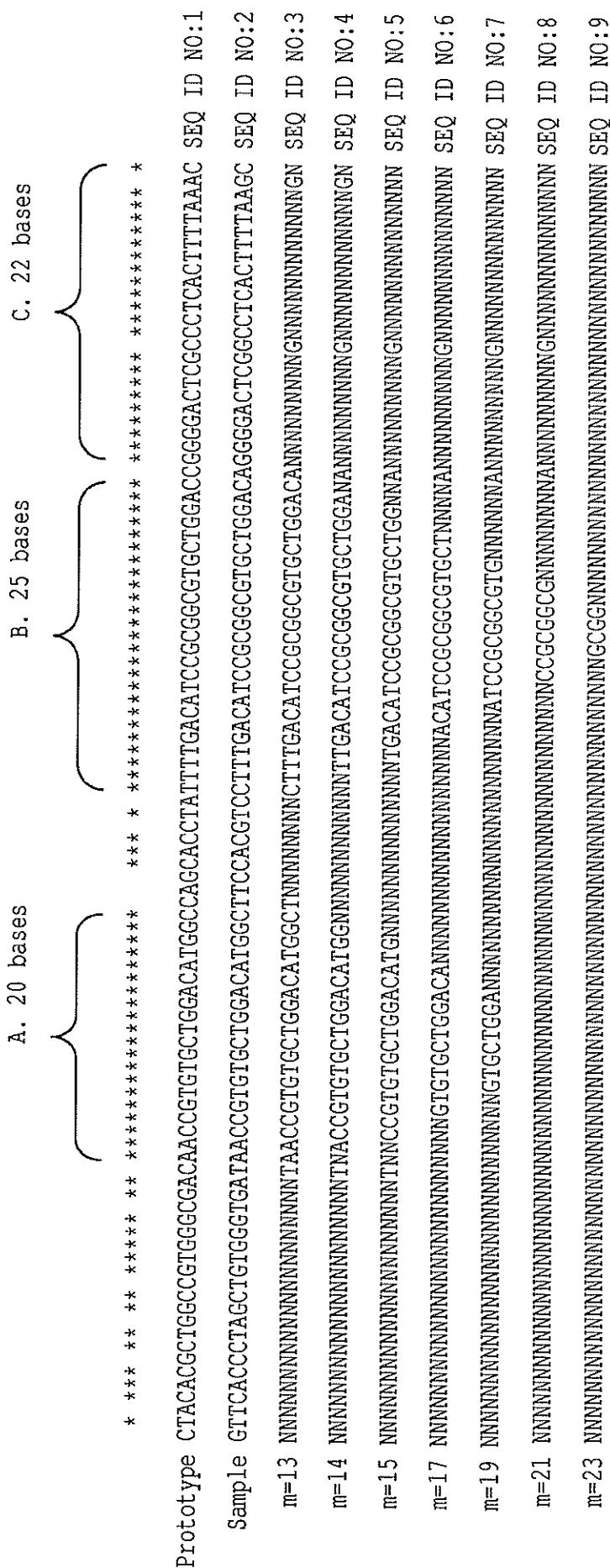
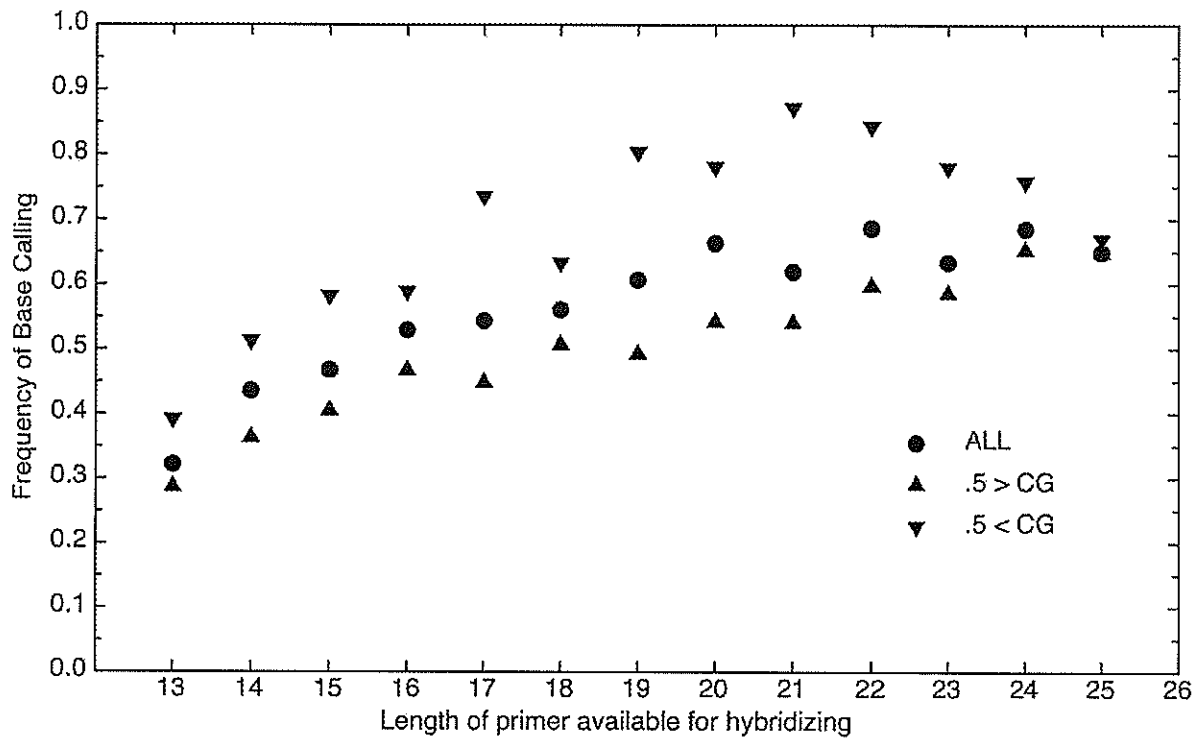
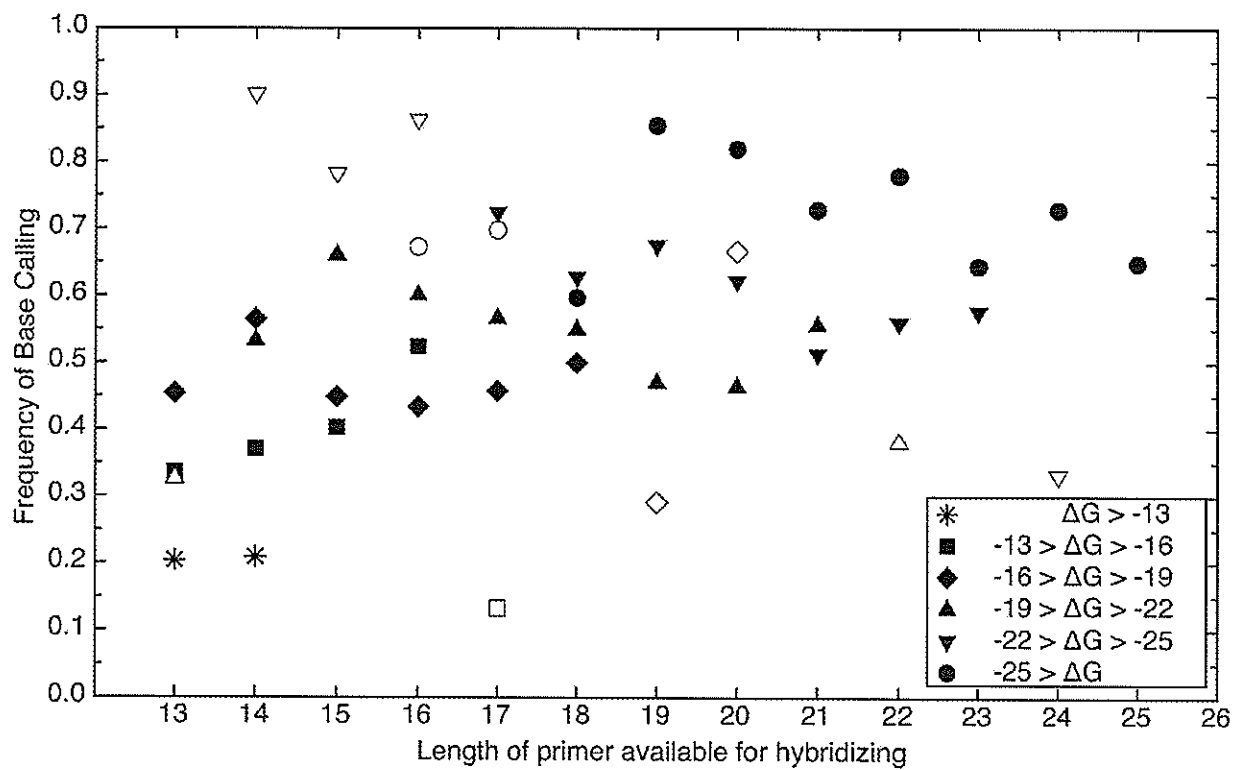
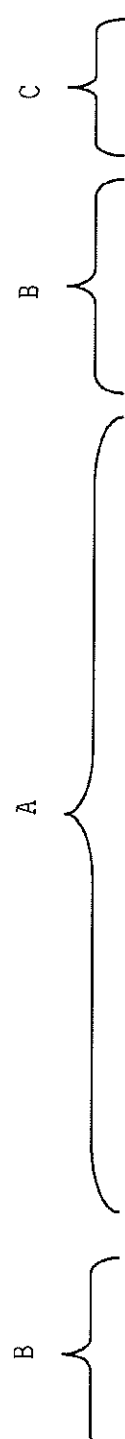


Fig. 1

*Fig. 2**Fig. 3*



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 Chip ACCNNNNNNNTGNNNTGNTGNTTNCATGGTGCAAAANTCTGGGNNNACAGGNNCANNNNNNNNNNNNNGGNAATTNNNNNGCTNANANANTGTGGTGGNANGT SEQ ID NO:10
 Model NNNNNNNNTNNNAATTGTTGTTGATTACATGCTGCAAAANTCTGGGAAACAGGAACAANNNNNNNCAAGAGGTATNNNNNNNNNNNNNNNNNNNNNNNAAGT SEQ ID NO:11
 Conventional ACCACAAAGTGGTAGAATTGTTGTTGATTACATGGTGCAAAAATCTGGGAAACAGGAACAATTACTTATCAACAGGTAATTTATGCGCTCAAAAAGTGTGGTGGCAAGT SEQ ID NO:12
 Prototype ACCACAAAGCGGCAGAAATTGTTGTTGATTACATGGTGCAAAAACCTGGGAAACAGGAACAATTGCTATCAAGAGGTAATTTGTTGCGCTCAAAAAGTGTGGTGGCGGAGT SEQ ID NO:13

Fig. 4

NOMINAL TARGET	1	TGTCGACAG
TARGETS	10	TGTCGACAG
	20	TGTCTCCAC
	30	TGCCGAGAG
	40	TATGGACGA
CANDIDATE	100	TGTCGACAG
PROTYPES	200	TGTCTCCAC
	300	TGCCGAGAG
	400	TATGGACGA

Fig. 5

PROBES							
111	TGTCGAC	211	TGTCTCC	311	TGCCGAG	411	TATGGAC
112	TGTAGAC	212	TGTATCC	312	TGCAGAG	412	TATAGAC
113	TGTTGAC	213	TGTTTCC	313	TGCTGAG	413	TATTGAC
114	TGTGGAC	214	TGTGTCC	314	TGCGGAG	414	TATCGAC
121	GTCGACA	221	GTCTCCA	321	GCCGAGA	421	ATGGACG
122	GTCAACA	222	GTCACCA	322	GCCAAGA	422	ATGAACG
123	GTCTACA	223	GTCCCCA	323	GCCTAGA	423	ATGTACG
124	GTCCACA	224	GTCGCCA	324	GCCCAGA	424	ATGCACG
131	TCGACAG	231	TCTCCAC	331	CCGAGAG	431	TGGACGA
132	TCGTCAG	232	TCTACAC	332	CCGTGAG	432	TGGTCGA
133	TCGCCAG	233	TCTTCAC	333	CCGCGAG	433	TGGCCGA
134	TCGGCAG	234	TCTGCAC	334	CCGGGAG	434	TGGGCGA

Fig. 6

FRAGMENTS							
11	TGTC	21	TGTC	31	TGCC	41	TATG
12	GTCG	22	GTCT	32	GCCG	42	ATGG
13	TCGA	23	TCTC	33	CCGA	43	TGGA
14	CGAC	24	CTCC	34	CGAG	44	GGAC
15	GACA	25	TCCA	35	GAGA	45	GACG
16	ACAG	26	CCAC	36	AGAG	46	ACGA
EXTENDED FRAGMENTS							
11'	TGTC	21'	TGTCT	31'	TGCCG	41'	TATG
12'	GTCGA	22'	GTCT	32'	GCCG	42'	ATGG
13'	TCGAC	23'	TCTC	33'	CCGA	43'	TGGACG
14'	CGACAG	24'	CTCCA	34'	CGAG	44'	GGACG
15'	GACA	25'	TCCA	35'	GAGA	45'	GACG
16'	ACAG	26'	CCAC	36'	AGAG	46'	ACGA

Fig. 7

PROBE		FRAGMENT		FRAGMENT		FRAGMENT		FRAGMENT	
111	TGTCGAC	11'	TGTC	12'	GTCGA	13'	TCGAC		
121	GTCGACA	12'	GTCGA	13'	TCGAC	15'	GACA		
123	GTCTACA	22'	GTCT						
124	GTCCACA	25'	TCCA	26'	CCAC				
131	TCGACAG	13'	TCGAC	14'	CGACAG	15'	GACA	16'	ACAG
211	TGTCTCC	11'	TGTC	21'	TGTCT	22'	GTCT	23'	TCTC
221	GTCTCCA	22'	GTCT	23'	TCTC	24'	CTCCA	25'	TCCA
231	TCTCCAC	23'	TCTC	24'	CTCCA	25'	TCCA	26'	CCAC
311	TGCCGAG	31'	TGCCG	32'	GCCG	33'	CCGA	34'	CGAG
312	TGCAGAG	36'	AGAG						
321	GCCGAGA	32'	GCCG	33'	CCGA	34'	CGAG	35'	GAGA
331	CCGAGAG	33'	CCGA	34'	CGAG	35'	GAGA	36'	AGAG
333	CCGCGAG	34'	CGAG						
411	TATGGAC	41'	TATG	42'	ATGG				
421	ATGGACG	42'	ATGG	43'	TGGACG	44'	GGACG	45'	GACG
431	TGGACGA	43'	TGGACG	44'	GGACG	45'	GACG	46'	ACGA
432	TGGTCGA	12'	GTCGA						
433	TGGCCGA	32'	GCCG	33'	CCGA				

Fig. 8

CANDIDATE PROTOTYPE		PROBE SET	BASE CALL	PROBE SET	BASE CALL	PROBE SET	BASE CALL	BASE CALL SEQUENCE
100	TGTCGACAG	111-114	C	121-124	N	131-134	A	CNA
200	TGTCTCCAC	211-214	C	221-224	T	231-234	C	CTC
300	TGCCGAGAG	311-314	N	321-324	G	331-334	N	NGN
400	TATGGACGA	411-414	G	421-424	G	431-434	N	GGN

Fig. 9

CANDIDATE	PROTOTYPE	BASE CALL	SEQUENCE	MATCHING ORGANISMS				
				A	B	C	D	E
100			CNA			X	X	
200			CTC		X	X		
300			NGN					
400			GGN	X	X			X

CANDIDATE	PROTOTYPES	FINAL	PROTOTYPES	ORGANISMS
100				A
200				B
300				C
400				D
				E

CANDIDATE	PROTOTYPES	FINAL	PROTOTYPES	ORGANISMS
100		400		C
200				D
300				

CANDIDATE	PROTOTYPES	FINAL	PROTOTYPES	ORGANISMS
200		400		
300		100		

Fig. 10