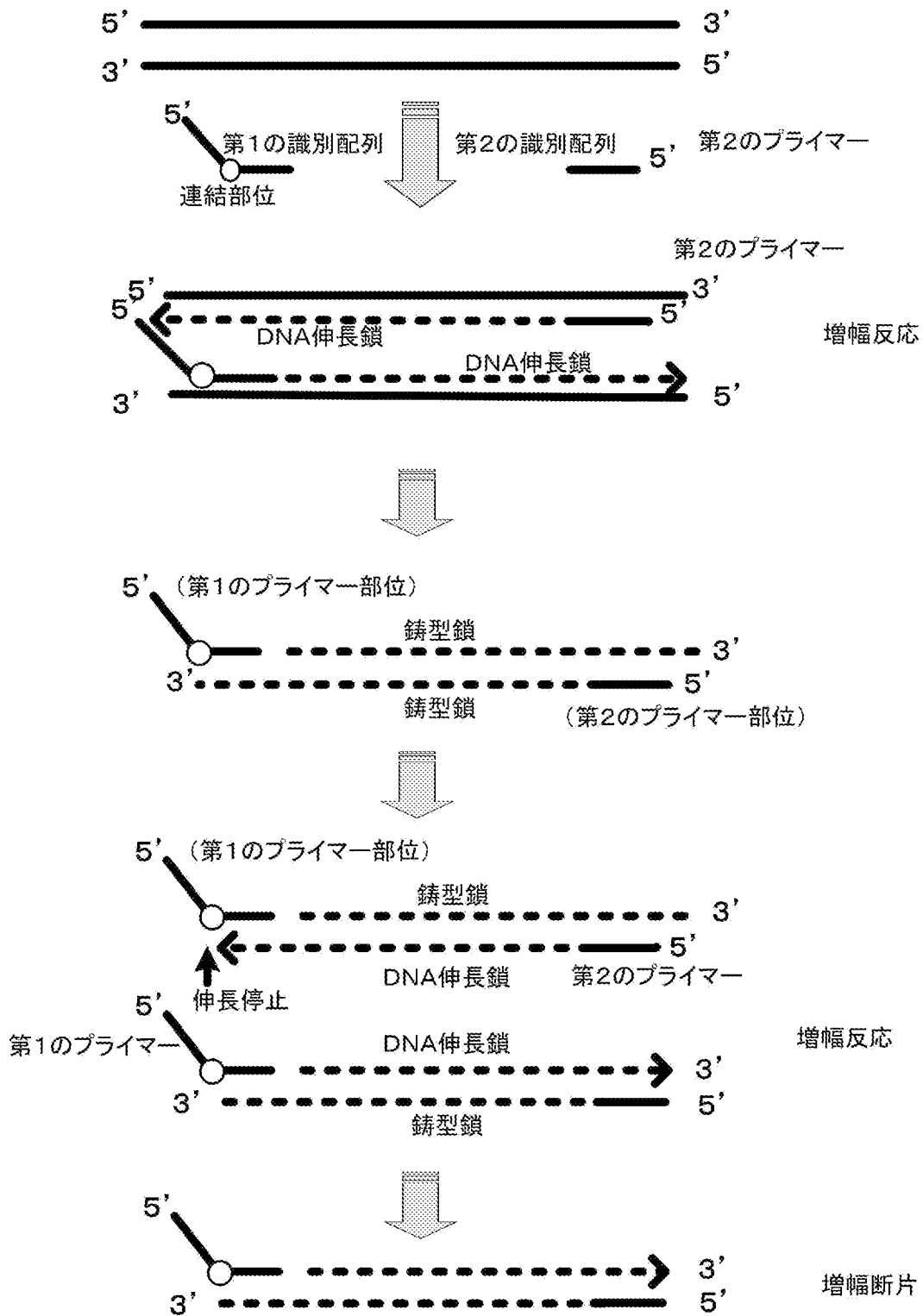
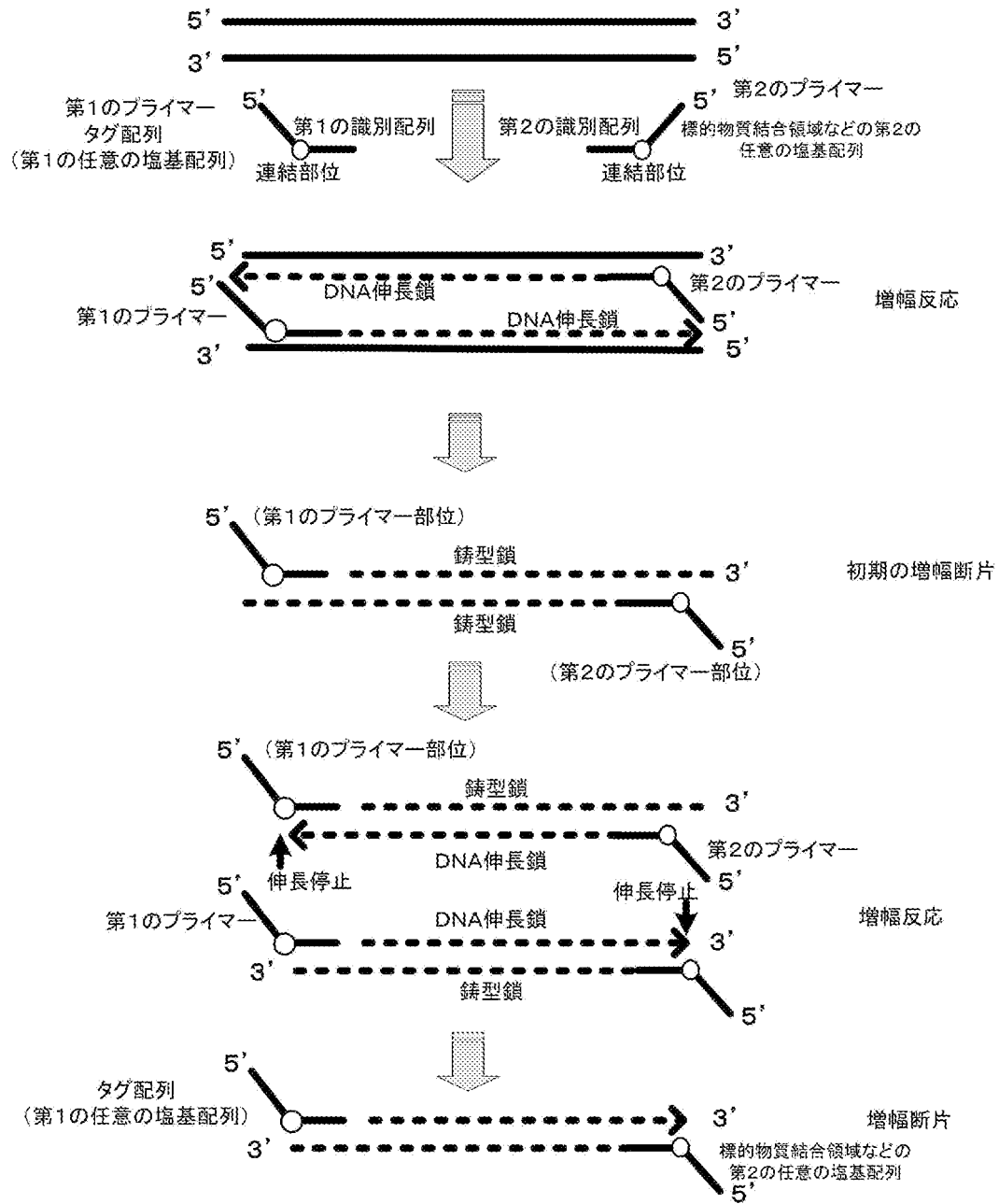


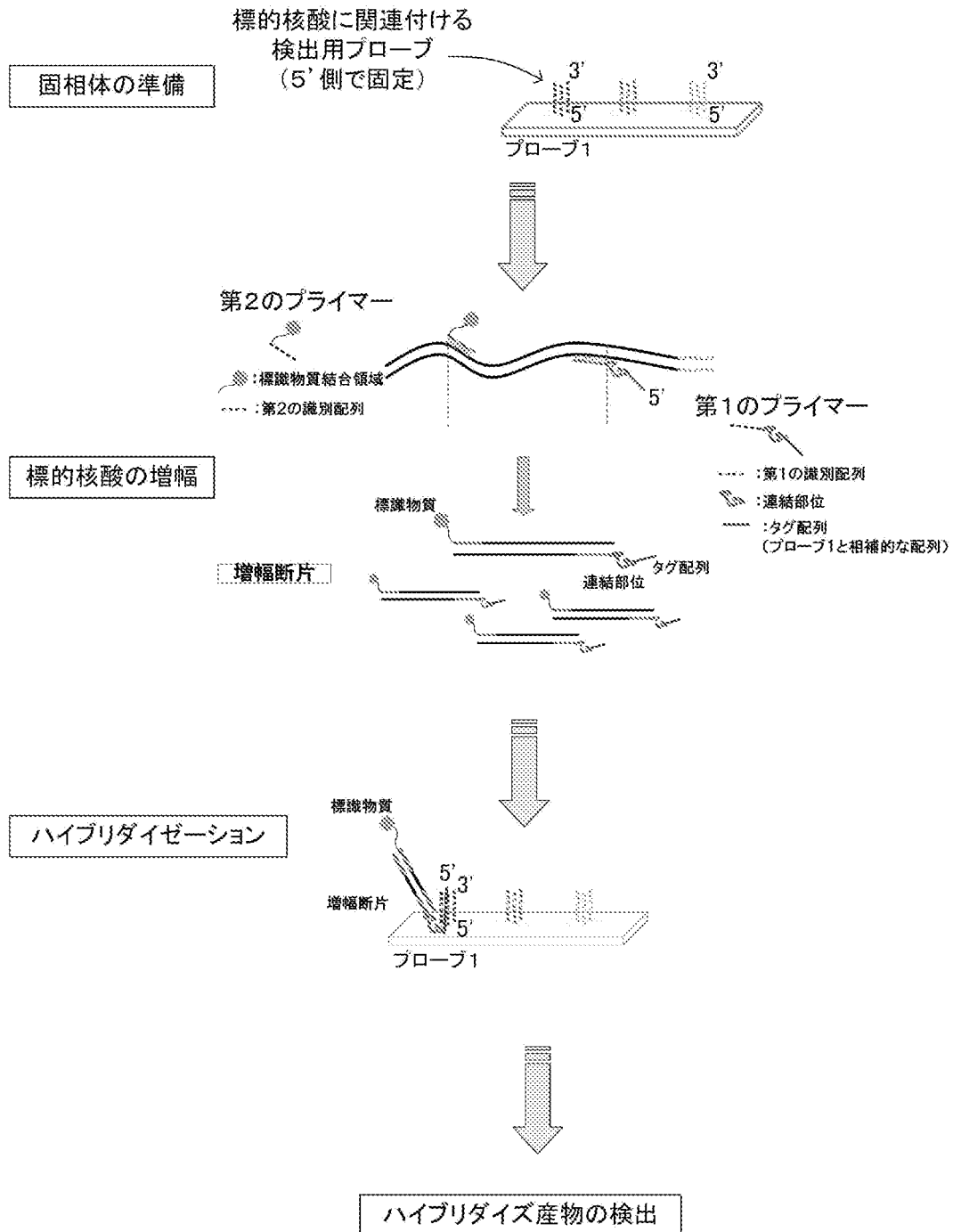
[図1A]



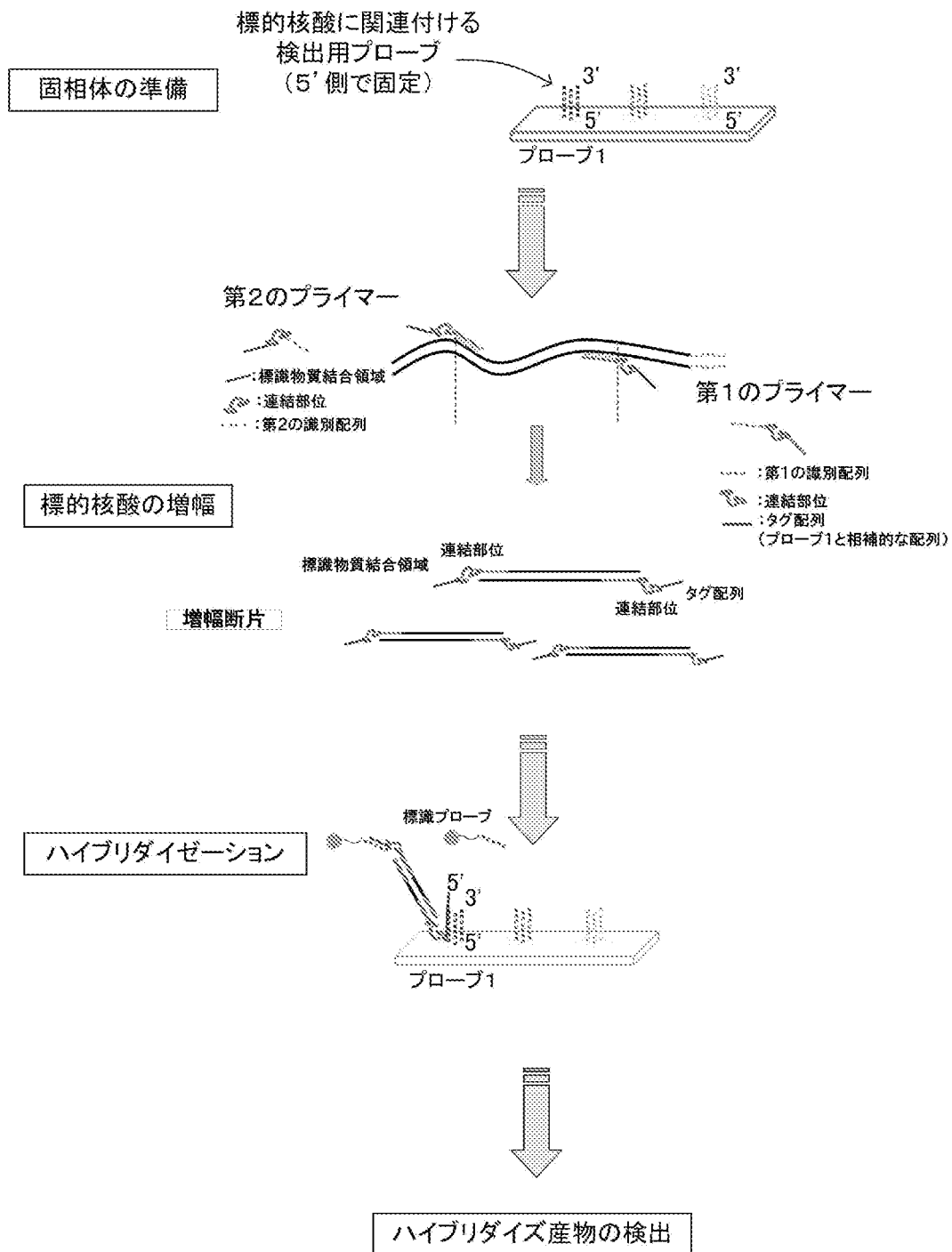
[図1B]



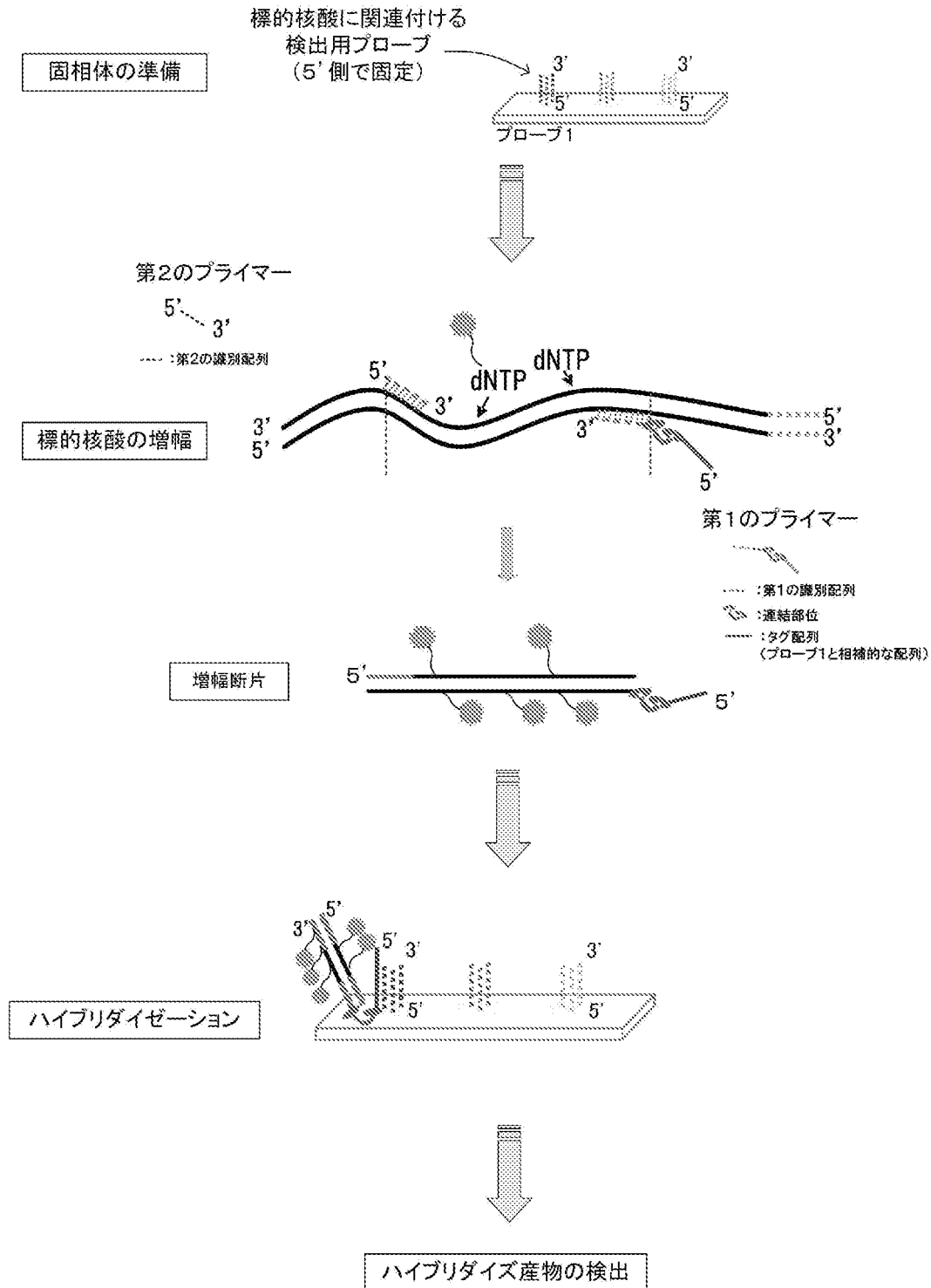
[図2A]



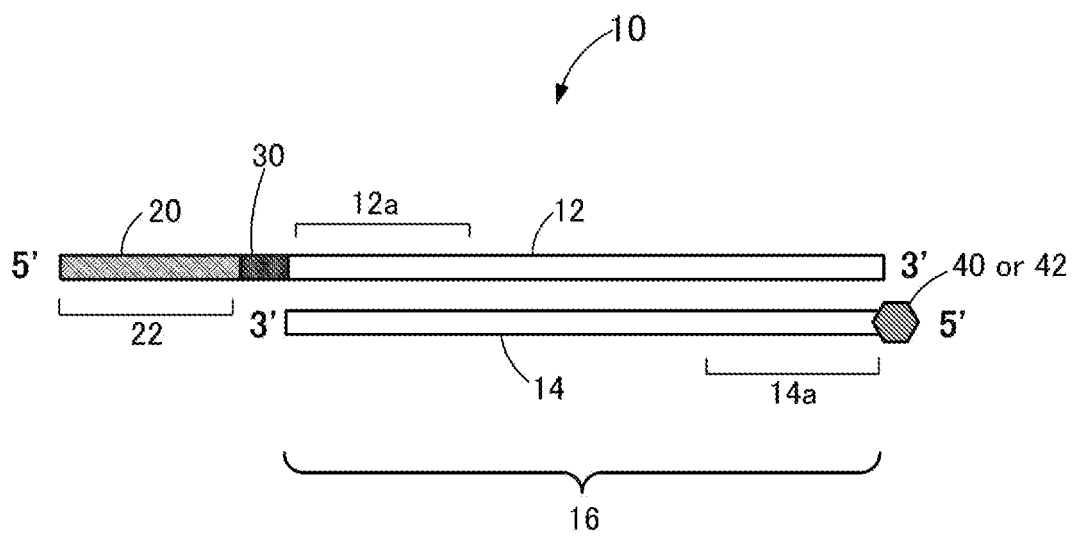
[図2B]



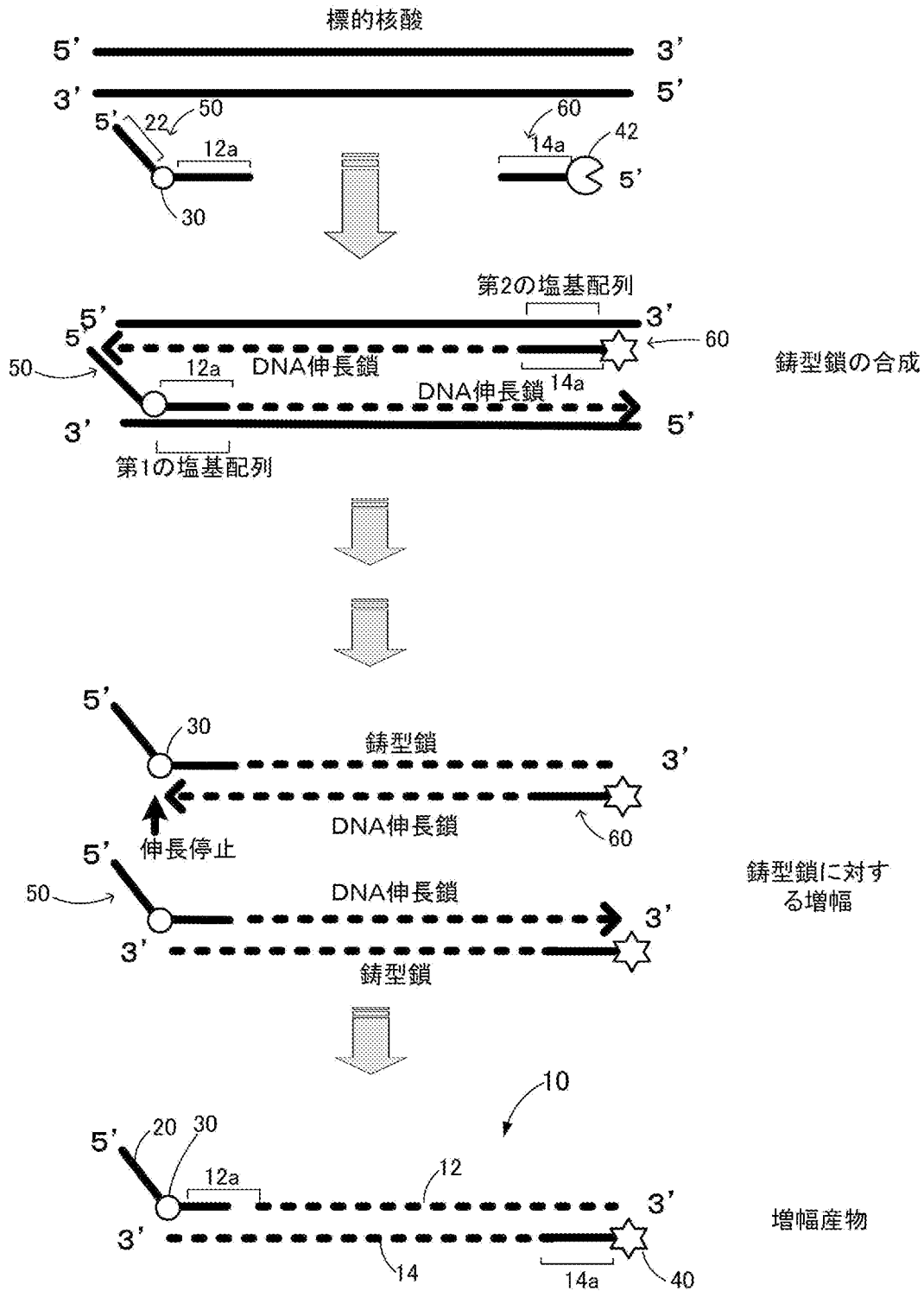
[図2C]



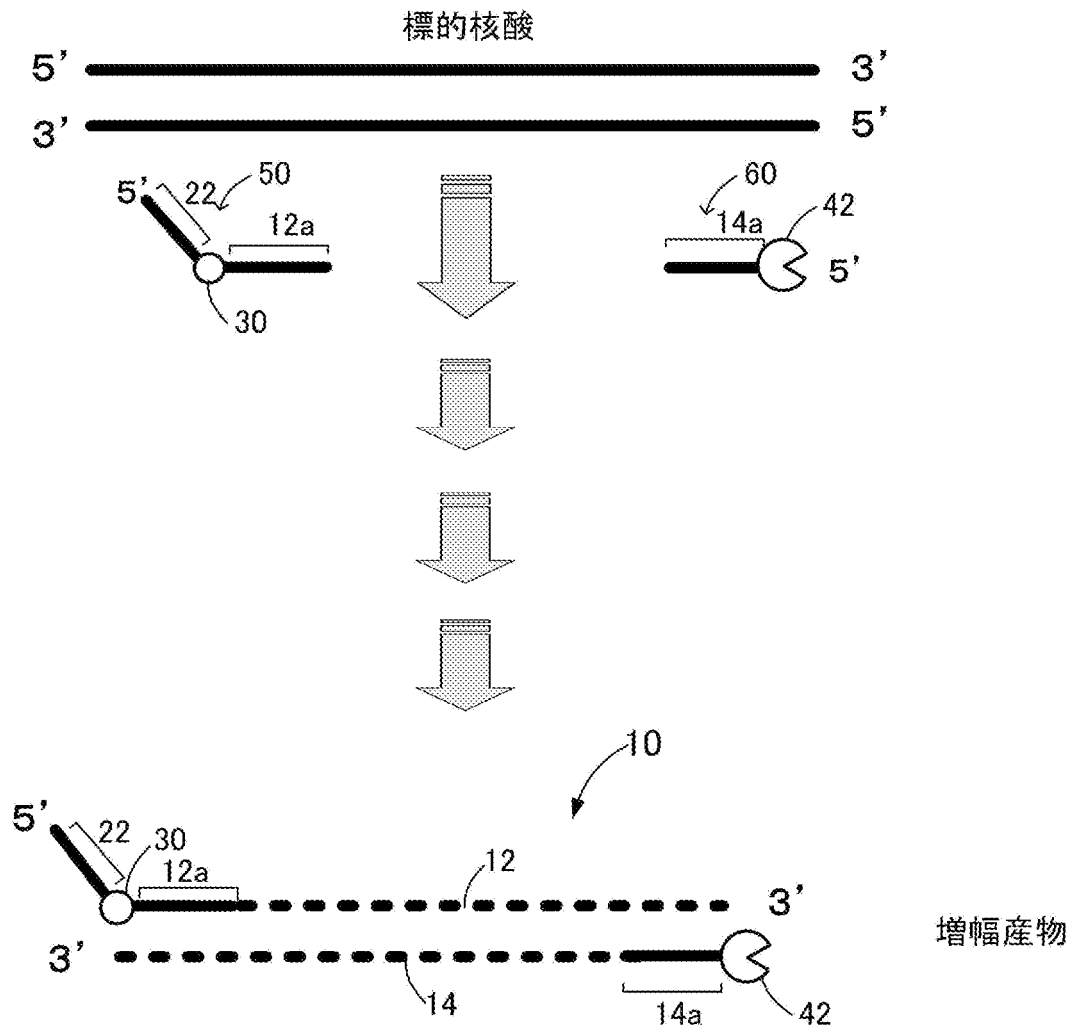
[図3]



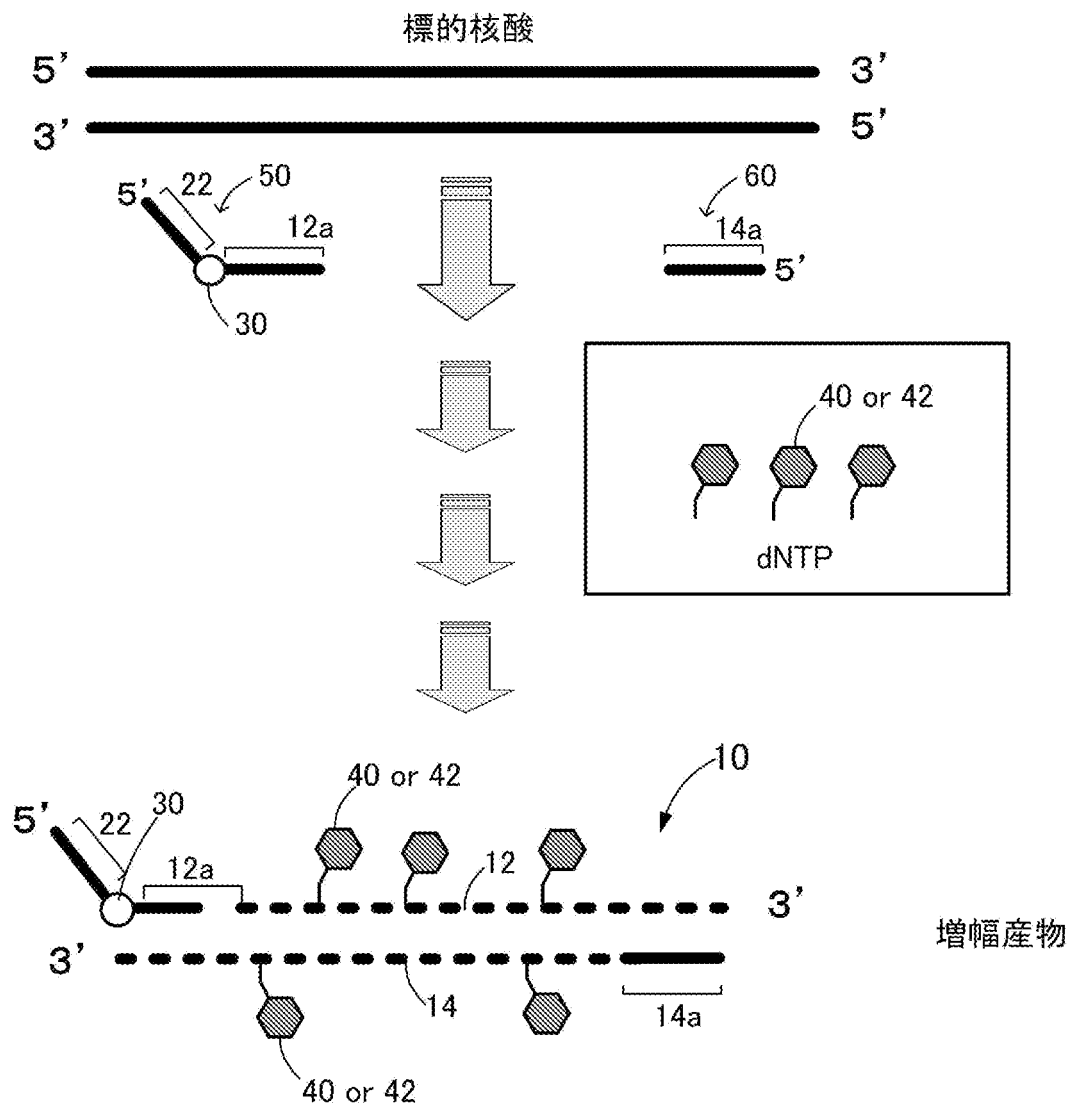
[図4]



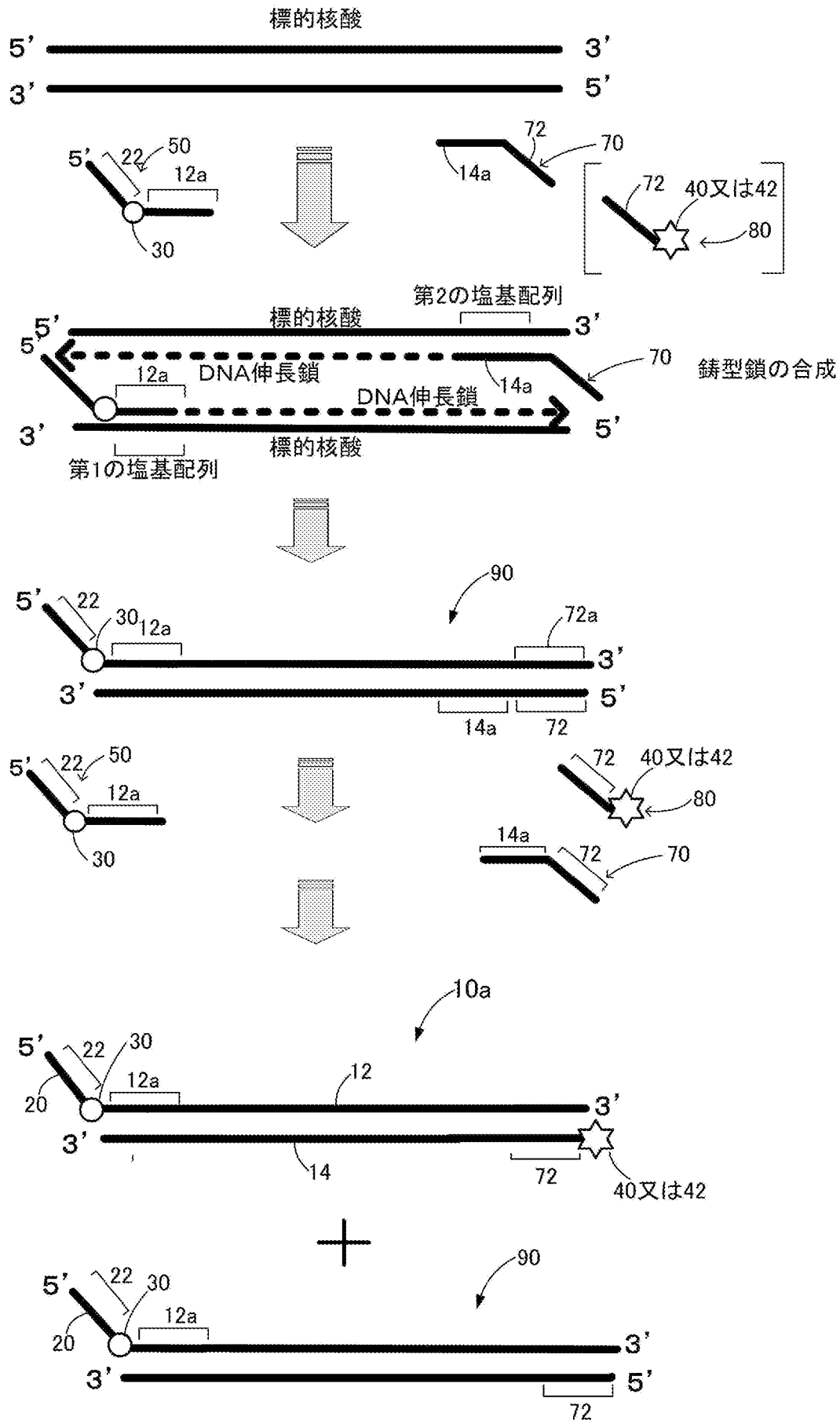
[図5]



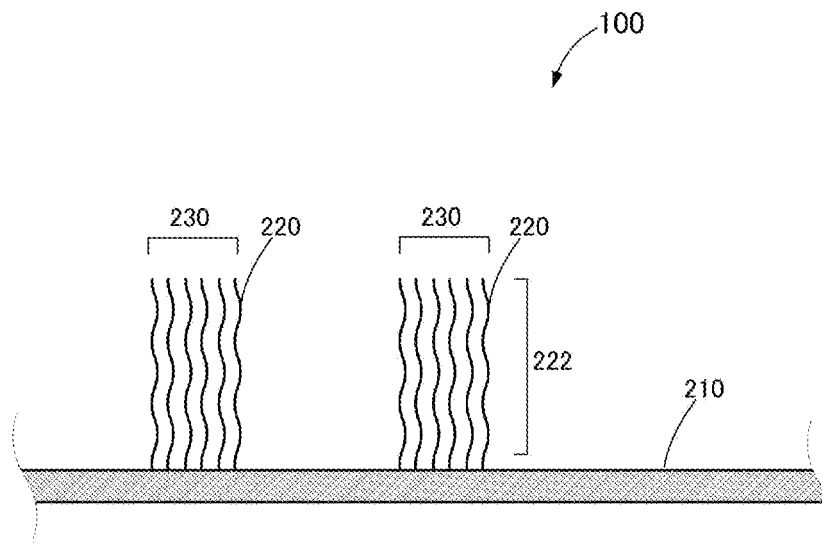
[図6]



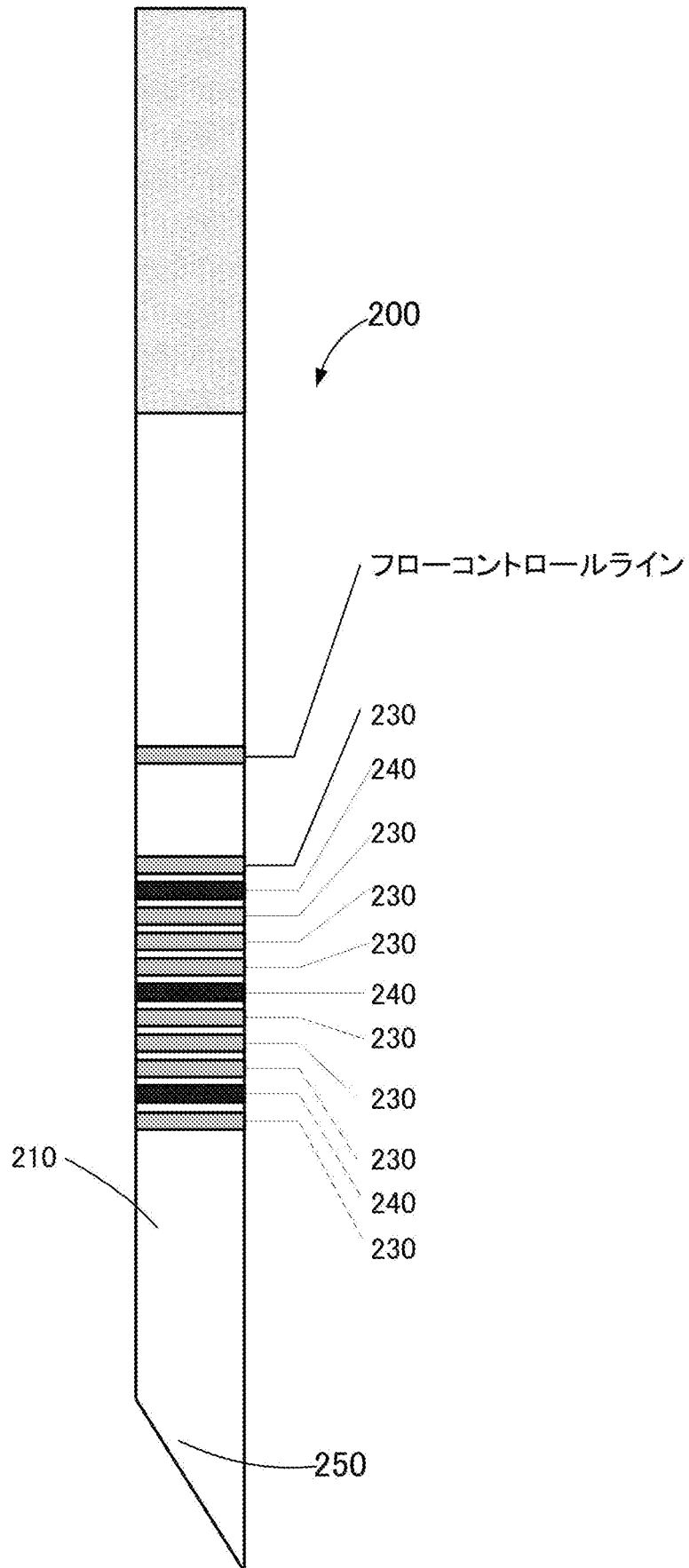
[図7]



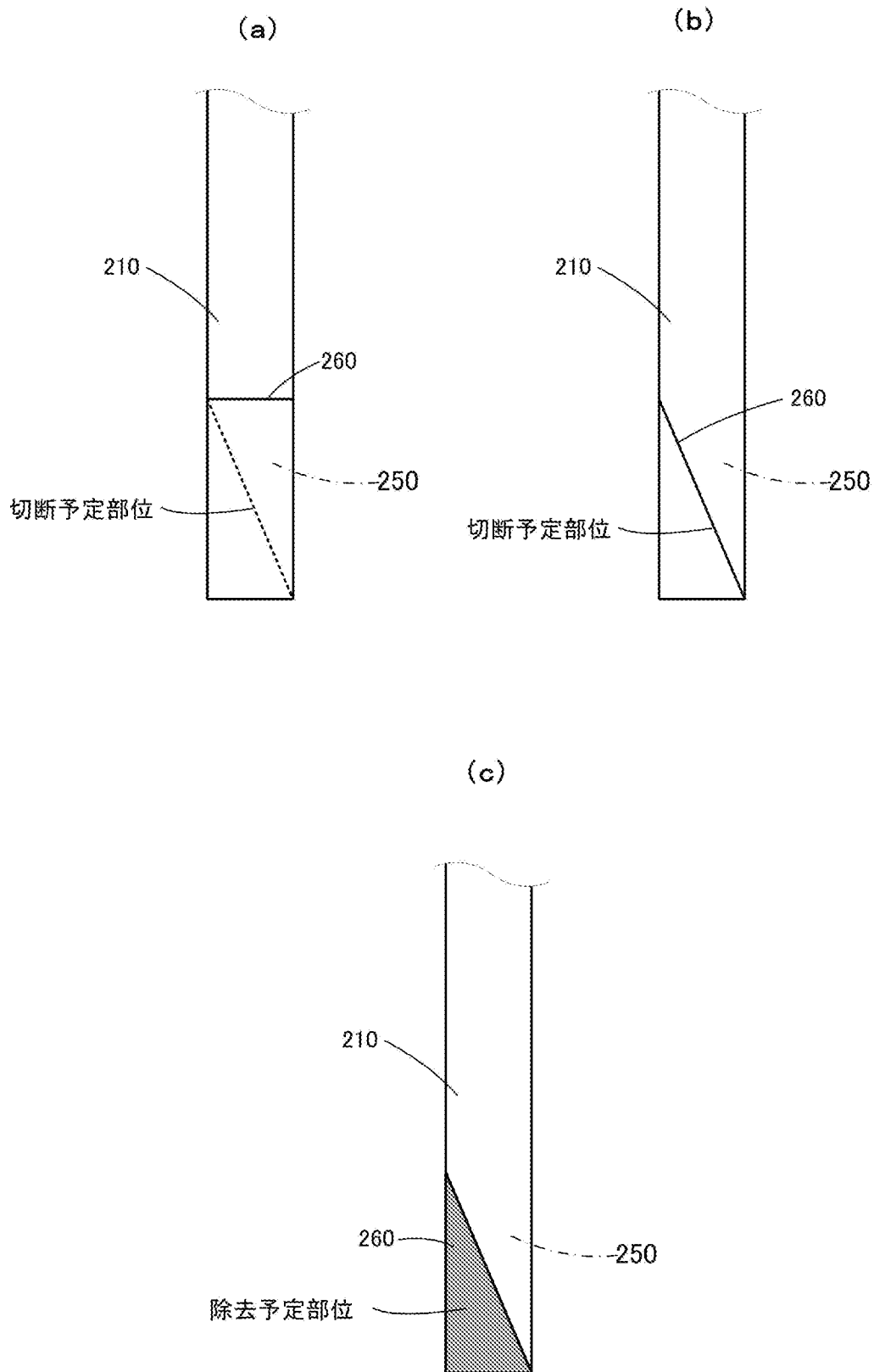
[図9]



[図10]



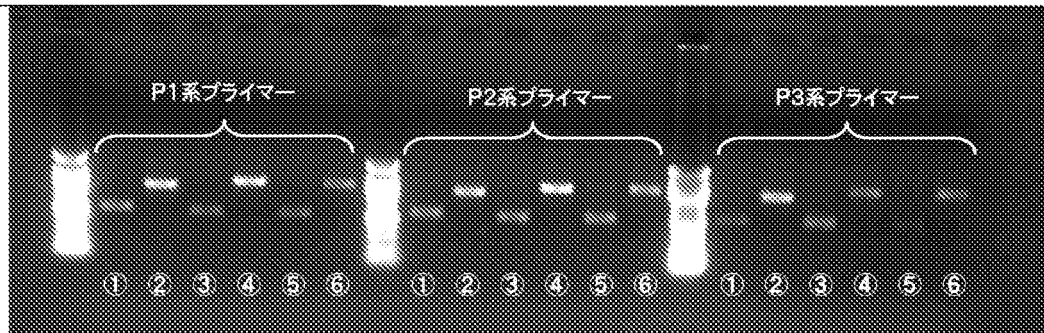
[図11]



[図12]

プライマーへのコモンタグ結合方法の評価

PCR増幅・カラム精製後電気泳動画像



PCR増幅・カラム精製後増幅量 (25ng/反応で増幅開始)

断片No.		(1)	(2)	(3)	(4)	(5)	(6)
増幅時プライマー		(SNP01)	(SNP03)	(SNP07)	(SNP08)	(SNP09)	(SNP20)
タグ付き	タグなし:P1系	253	308	134	239	162	219
	P2系	156	205	163	266	134	161
	P3系	124	209	178	144	140	104

(単位:ng)

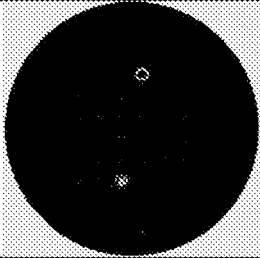
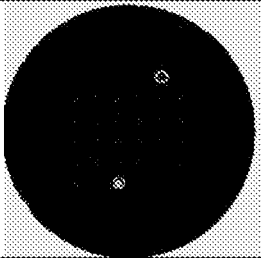
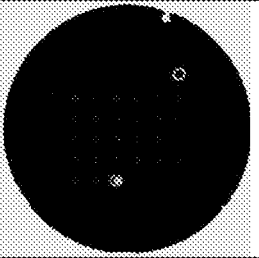
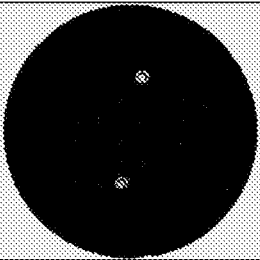
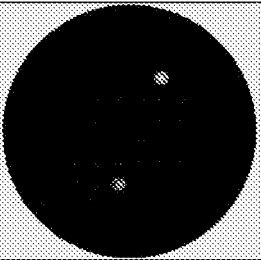
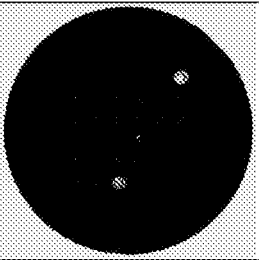
[図13]

プライマーへのコモンタグ結合方法の評価

タグ有無/結合方法	あり/ダイレクト結合		
増幅プライマー	(1)+タグ01	(2)+タグ02	(3)+タグ03
評価結果			
タグ有無/結合方法	あり/C3 連結部位を介した結合		
増幅プライマー	(1)+C3+タグ01	(2)+C3+タグ02	(3)+C3+タグ03
評価結果			

[図14]

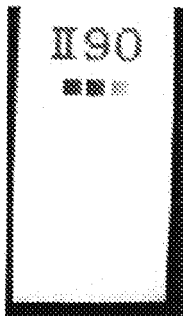
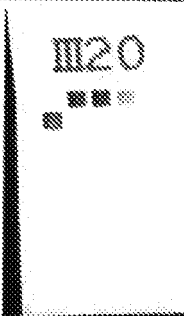
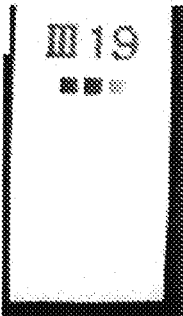
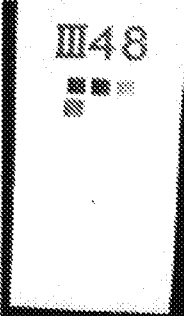
プライマーへのコモンタグ結合方法の評価

タグ有無／結合方法	あり／ダイレクト結合		
増幅プライマー	(4)+タグ04	(5)+タグ05	(6)+タグ06
評価結果			
タグ有無／結合方法	あり／C3 連結部位を介した結合		
増幅プライマー	(4)+C3+タグ04	(5)+C3+タグ05	(6)+C3+タグ06
評価結果			

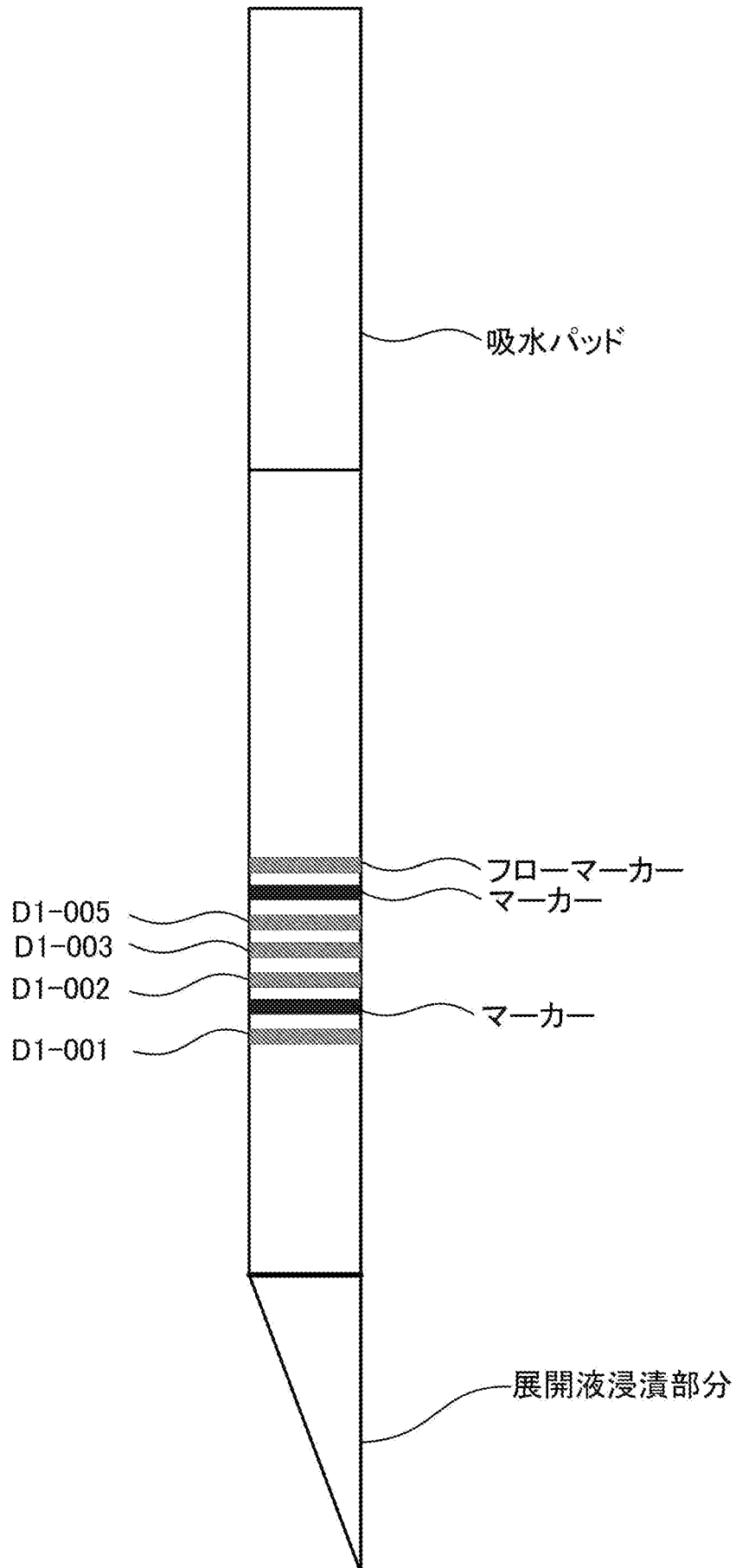
[図15]

D1-100	見本1	マーカー	見本2	D1-100
D1-001	D1-002	D1-003	D1-005	D1-006
D1-009	D1-010	D1-011	D1-012	D1-014
D1-015	D1-016	D1-020	D1-023	D1-025
D1-026	D1-027	D1-030	D1-032	D1-035
D1-037	D1-038	D1-040	D1-041	D1-044
D1-045	D1-049	D1-050	D1-051	D1-052
D1-053	D1-062	D1-064	D1-065	D1-077
D1-079	D1-081	D1-084	D1-089	D1-090
D1-100	D1-094	D1-095	D1-097	D1-100

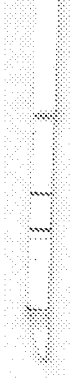
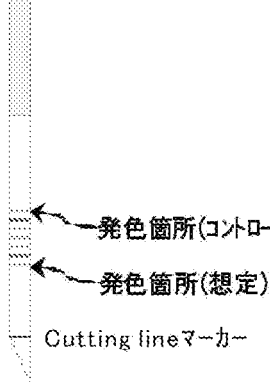
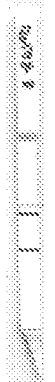
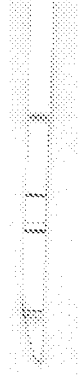
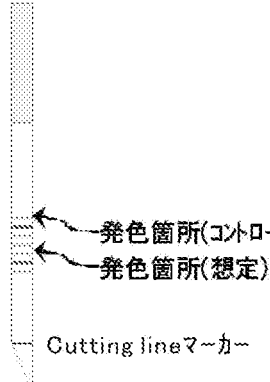
[図16]

既存法 反応結果	新規法 反応結果	測定発色部位																																																																						
P2-1産物 	P3-1産物 	<table><tr><td>01-001</td><td>01-002</td><td>01-003</td><td>01-004</td><td>01-005</td></tr><tr><td>01-006</td><td>01-007</td><td>01-008</td><td>01-009</td><td>01-010</td></tr><tr><td>01-011</td><td>01-012</td><td>01-013</td><td>01-014</td><td>01-015</td></tr><tr><td>01-016</td><td>01-017</td><td>01-018</td><td>01-019</td><td>01-020</td></tr><tr><td>01-021</td><td>01-022</td><td>01-023</td><td>01-024</td><td>01-025</td></tr><tr><td>01-026</td><td>01-027</td><td>01-028</td><td>01-029</td><td>01-030</td></tr><tr><td>01-031</td><td>01-032</td><td>01-033</td><td>01-034</td><td>01-035</td></tr><tr><td>01-036</td><td>01-037</td><td>01-038</td><td>01-039</td><td>01-040</td></tr><tr><td>01-041</td><td>01-042</td><td>01-043</td><td>01-044</td><td>01-045</td></tr><tr><td>01-046</td><td>01-047</td><td>01-048</td><td>01-049</td><td>01-050</td></tr><tr><td>01-051</td><td>01-052</td><td>01-053</td><td>01-054</td><td>01-055</td></tr><tr><td>01-056</td><td>01-057</td><td>01-058</td><td>01-059</td><td>01-060</td></tr><tr><td>01-061</td><td>01-062</td><td>01-063</td><td>01-064</td><td>01-065</td></tr><tr><td>01-066</td><td>01-067</td><td>01-068</td><td>01-069</td><td>01-070</td></tr></table>	01-001	01-002	01-003	01-004	01-005	01-006	01-007	01-008	01-009	01-010	01-011	01-012	01-013	01-014	01-015	01-016	01-017	01-018	01-019	01-020	01-021	01-022	01-023	01-024	01-025	01-026	01-027	01-028	01-029	01-030	01-031	01-032	01-033	01-034	01-035	01-036	01-037	01-038	01-039	01-040	01-041	01-042	01-043	01-044	01-045	01-046	01-047	01-048	01-049	01-050	01-051	01-052	01-053	01-054	01-055	01-056	01-057	01-058	01-059	01-060	01-061	01-062	01-063	01-064	01-065	01-066	01-067	01-068	01-069	01-070
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01-066	01-067	01-068	01-069	01-070																																																																				
P2-2産物 	P3-2産物 	<table><tr><td>01-001</td><td>01-002</td><td>01-003</td><td>01-004</td><td>01-005</td></tr><tr><td>01-006</td><td>01-007</td><td>01-008</td><td>01-009</td><td>01-010</td></tr><tr><td>01-011</td><td>01-012</td><td>01-013</td><td>01-014</td><td>01-015</td></tr><tr><td>01-016</td><td>01-017</td><td>01-018</td><td>01-019</td><td>01-020</td></tr><tr><td>01-021</td><td>01-022</td><td>01-023</td><td>01-024</td><td>01-025</td></tr><tr><td>01-026</td><td>01-027</td><td>01-028</td><td>01-029</td><td>01-030</td></tr><tr><td>01-031</td><td>01-032</td><td>01-033</td><td>01-034</td><td>01-035</td></tr><tr><td>01-036</td><td>01-037</td><td>01-038</td><td>01-039</td><td>01-040</td></tr><tr><td>01-041</td><td>01-042</td><td>01-043</td><td>01-044</td><td>01-045</td></tr><tr><td>01-046</td><td>01-047</td><td>01-048</td><td>01-049</td><td>01-050</td></tr><tr><td>01-051</td><td>01-052</td><td>01-053</td><td>01-054</td><td>01-055</td></tr><tr><td>01-056</td><td>01-057</td><td>01-058</td><td>01-059</td><td>01-060</td></tr><tr><td>01-061</td><td>01-062</td><td>01-063</td><td>01-064</td><td>01-065</td></tr><tr><td>01-066</td><td>01-067</td><td>01-068</td><td>01-069</td><td>01-070</td></tr></table>	01-001	01-002	01-003	01-004	01-005	01-006	01-007	01-008	01-009	01-010	01-011	01-012	01-013	01-014	01-015	01-016	01-017	01-018	01-019	01-020	01-021	01-022	01-023	01-024	01-025	01-026	01-027	01-028	01-029	01-030	01-031	01-032	01-033	01-034	01-035	01-036	01-037	01-038	01-039	01-040	01-041	01-042	01-043	01-044	01-045	01-046	01-047	01-048	01-049	01-050	01-051	01-052	01-053	01-054	01-055	01-056	01-057	01-058	01-059	01-060	01-061	01-062	01-063	01-064	01-065	01-066	01-067	01-068	01-069	01-070
01-001	01-002	01-003	01-004	01-005																																																																				
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01-011	01-012	01-013	01-014	01-015																																																																				
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01-041	01-042	01-043	01-044	01-045																																																																				
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01-066	01-067	01-068	01-069	01-070																																																																				

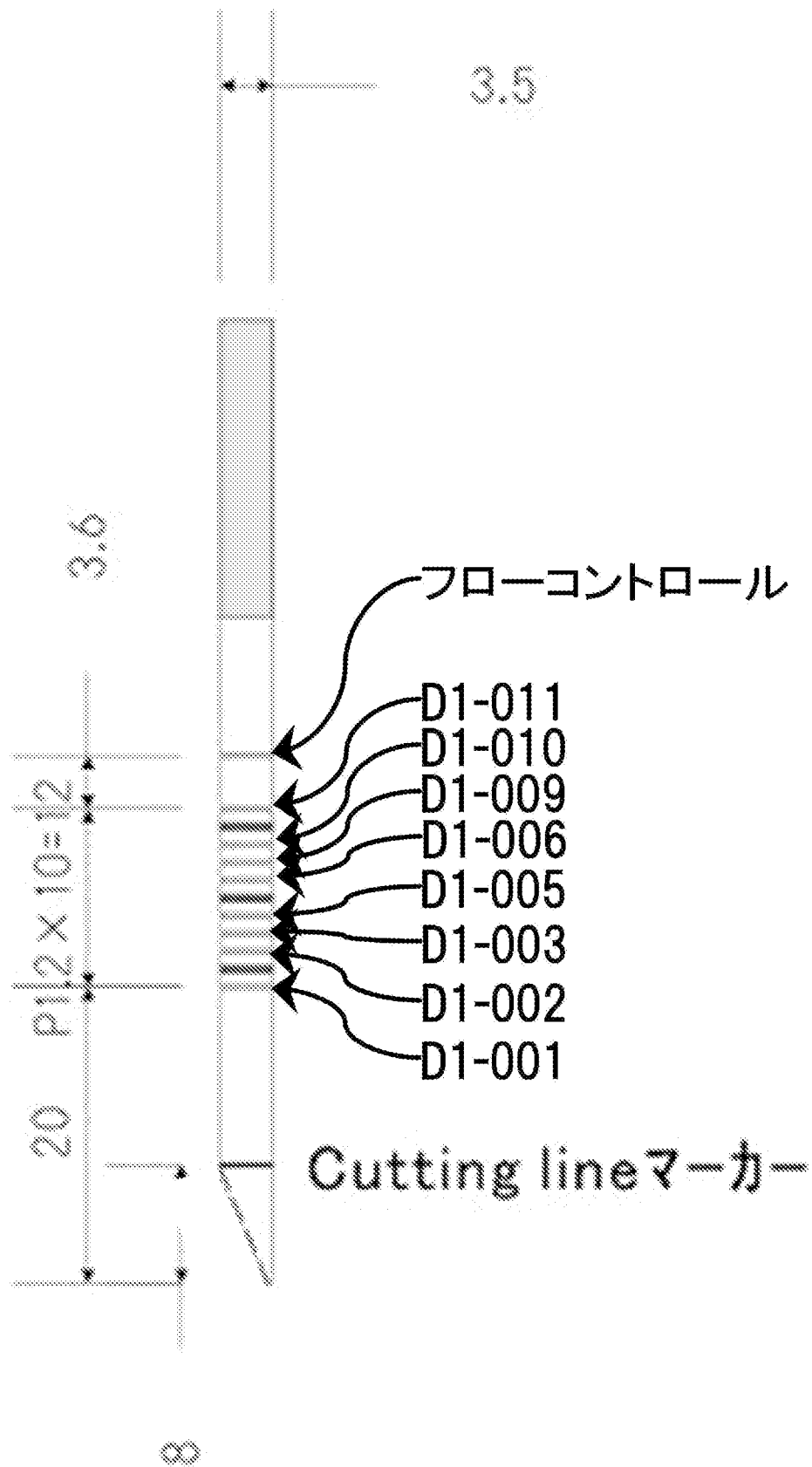
[図17]



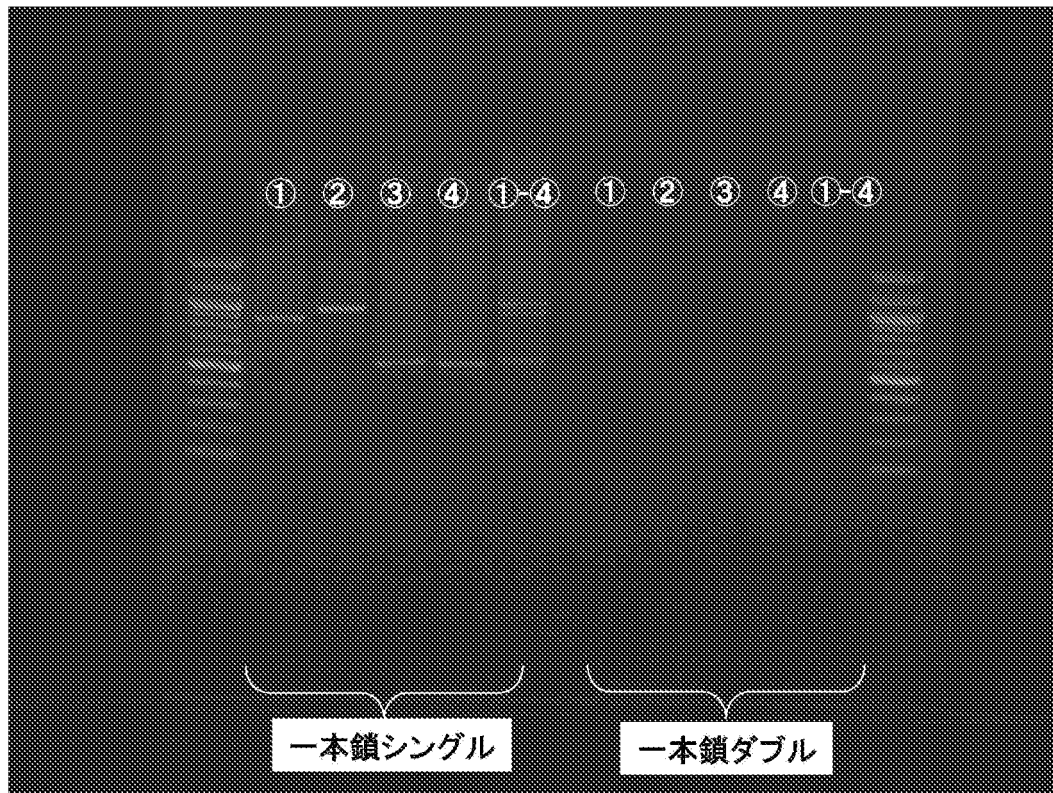
[図18]

既存法 反応結果	新規法 反応結果	想定発色部位
断片2-① 	断片3-① 	
断片2-② 	断片3-② 	

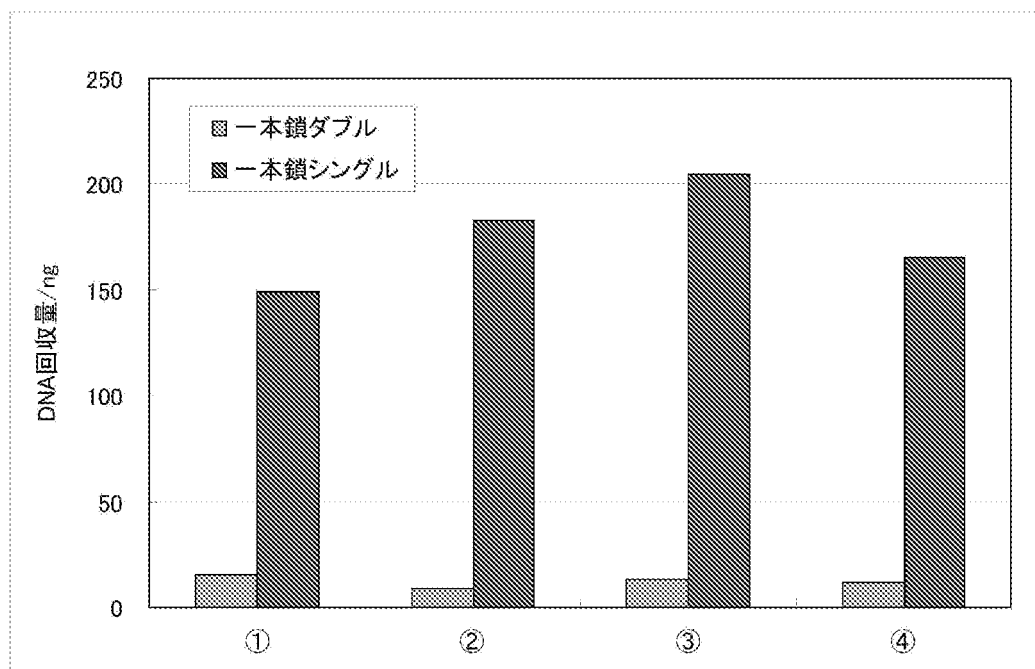
[図19]



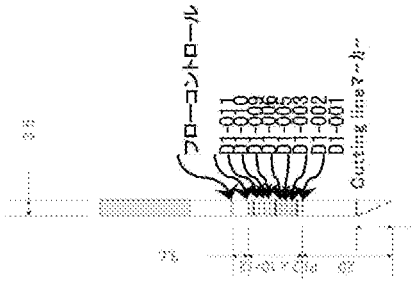
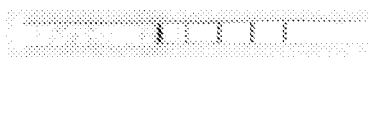
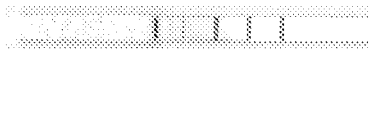
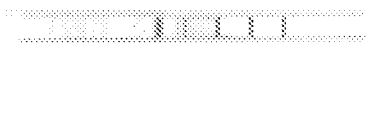
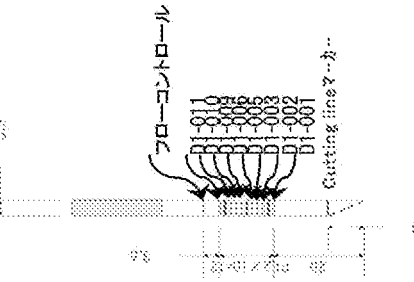
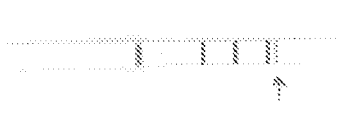
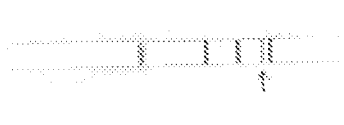
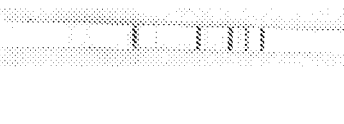
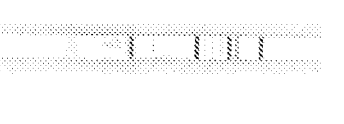
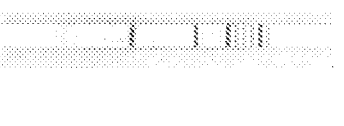
[図20]



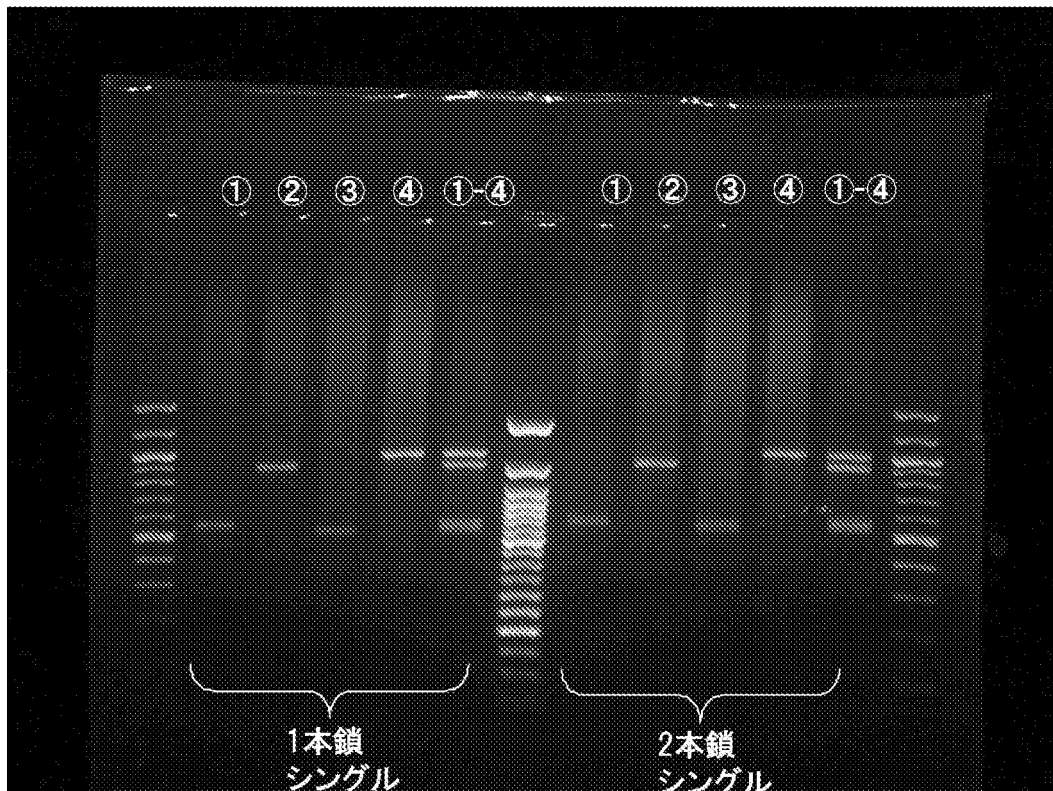
[図21]



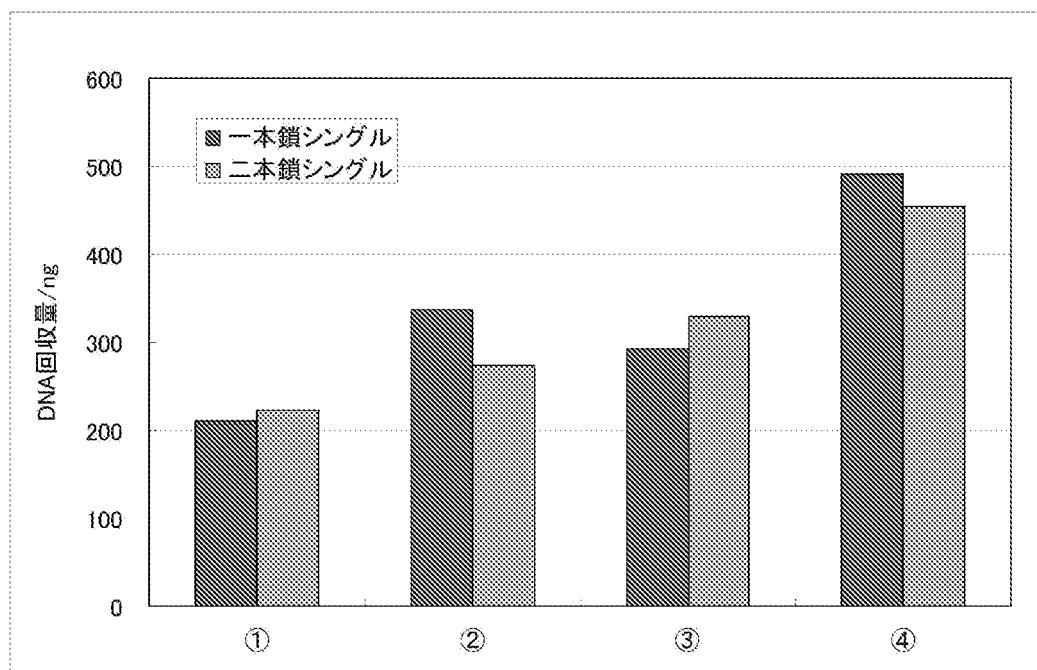
[図22]

一本鎖 ダブル F-タグ R-標識 用タグ	 Diagram showing a double-stranded DNA tag. The top strand is labeled 'フロ-コントロール' (Fluorophore control) and the bottom strand is labeled 'Cutting line' with a dashed line indicating the cut site. The tag is composed of a series of nucleotides (A, T, C, G) and is attached to a support (2.5 μm).	ダブル1 	ダブル2 	ダブル3 	ダブル4 	ダブル1~4 
一本鎖 シングル F-タグ R-セオチン	 Diagram showing a single-stranded DNA tag. The top strand is labeled 'フロ-コントロール' (Fluorophore control) and the bottom strand is labeled 'Cutting line' with a dashed line indicating the cut site. The tag is composed of a series of nucleotides (A, T, C, G) and is attached to a support (2.5 μm).	シングル1 	シングル2 	シングル3 	シングル4 	シングル1~4 

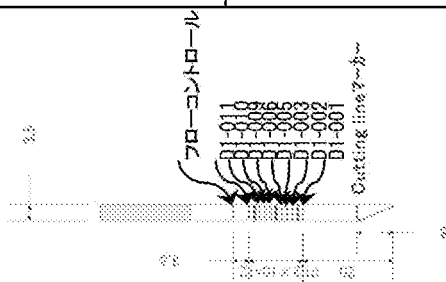
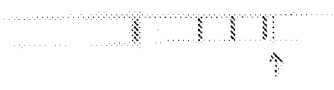
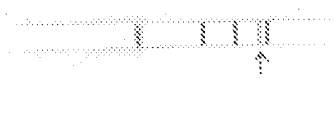
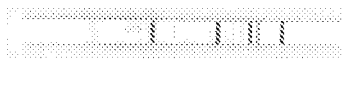
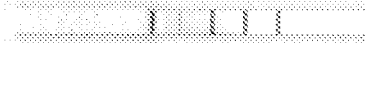
[図23]



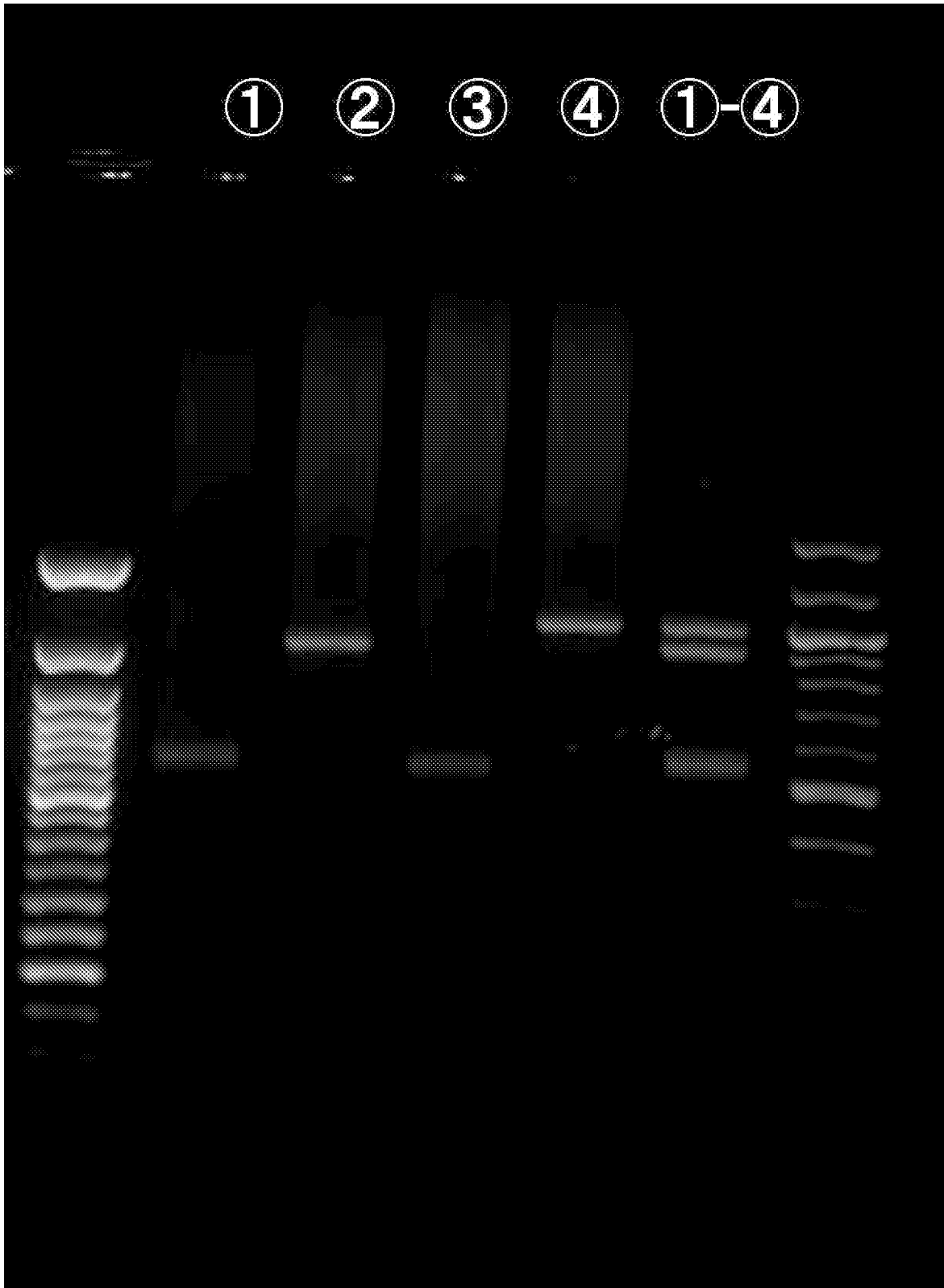
[図24]



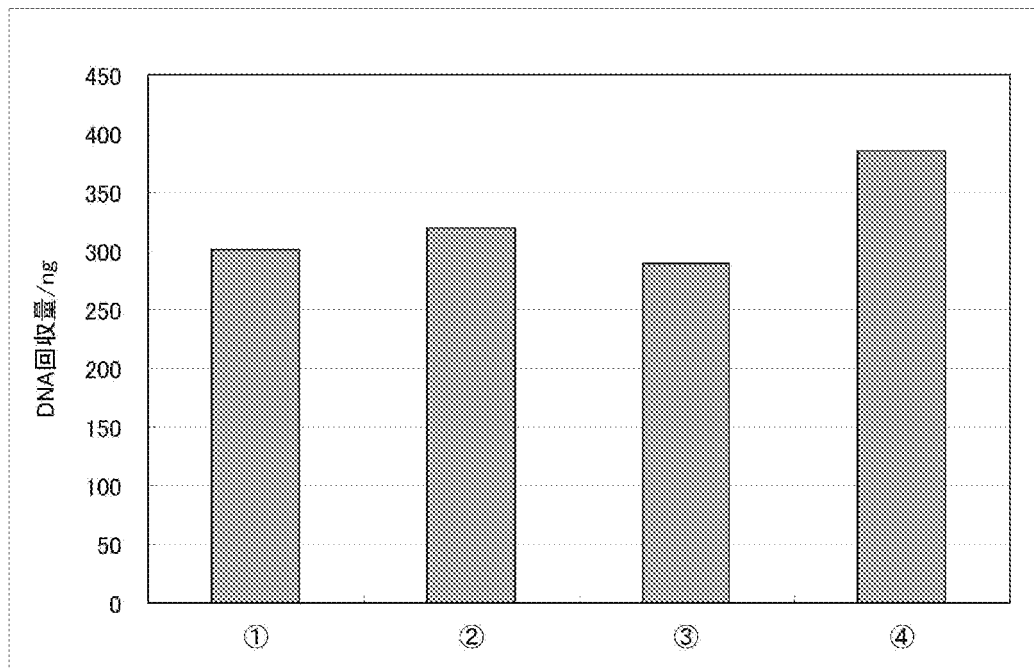
[図25]

一本鎖 シングル F-タグ R-未標識	 フロ-コントロール Cutting line?~か~				一本鎖シング ル①	
					一本鎖シング ル②	
					一本鎖シング ル③	
					一本鎖シング ル④	
					一本鎖シング ル①~④	
二本鎖 シングル F-タグ R-未標識					二本鎖シング ル①	
					二本鎖シング ル②	
					二本鎖シング ル③	
					二本鎖シング ル④	
					二本鎖シング ル①~④	

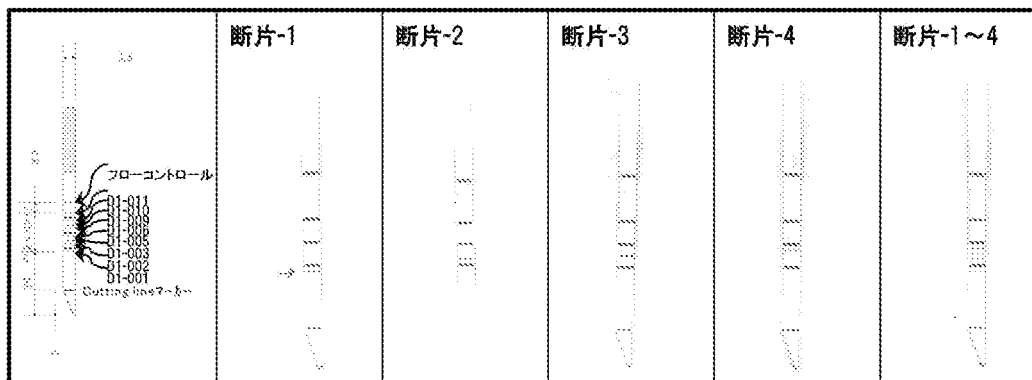
[図26]



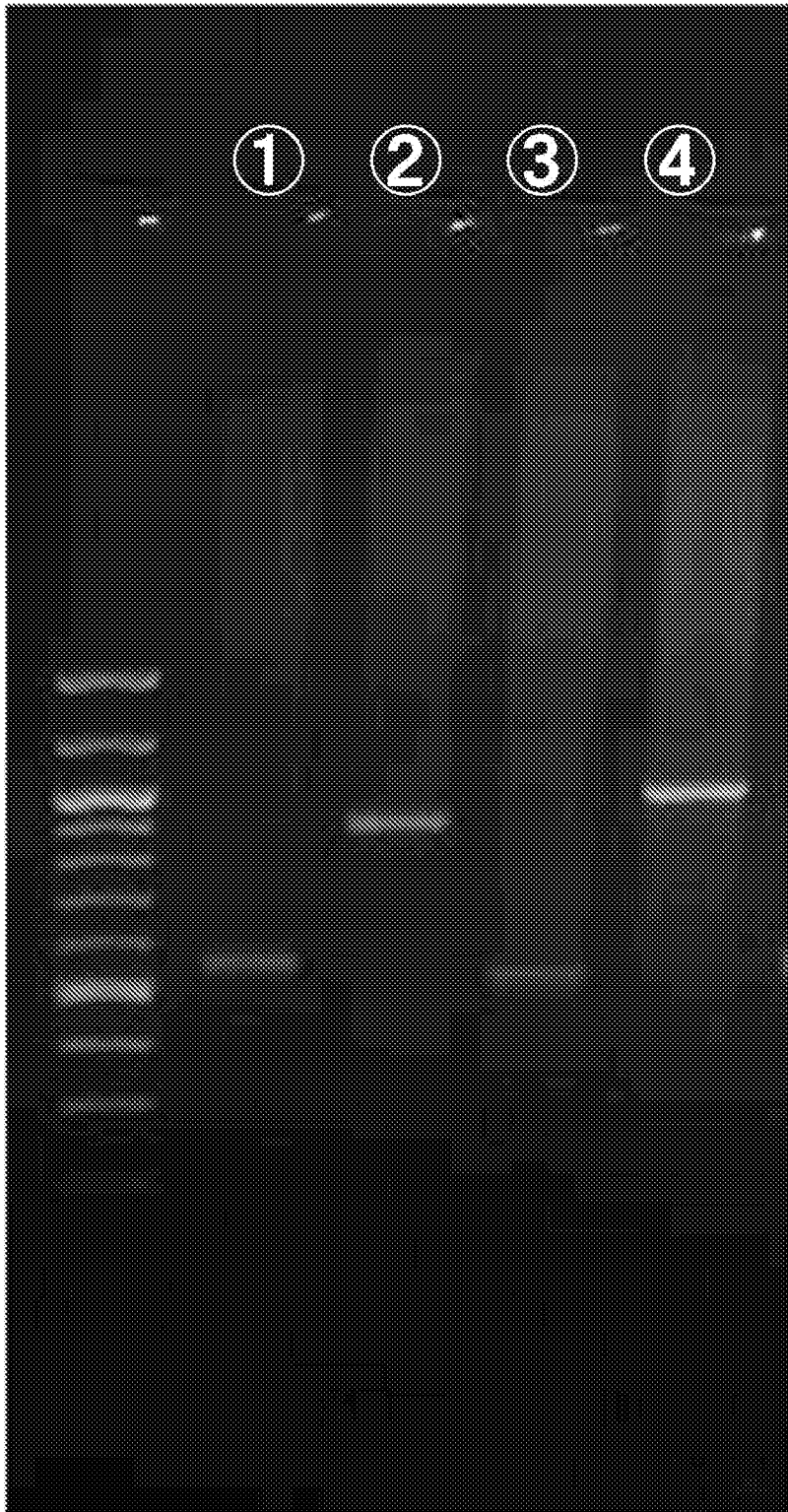
[図27]



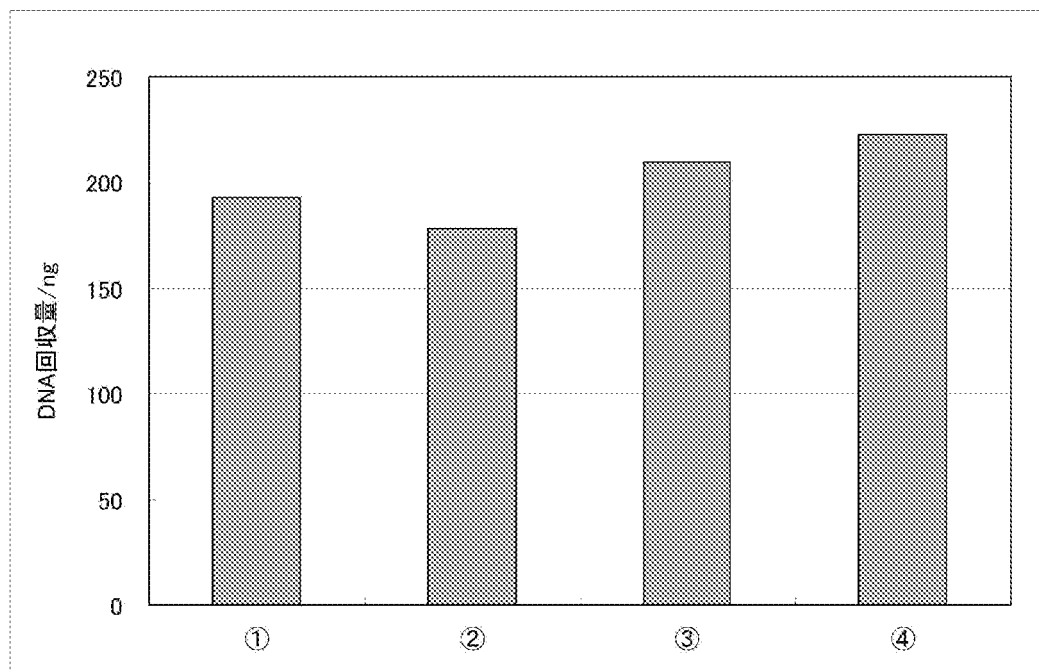
[図28]



[図29]



[図30]



[図31]

