

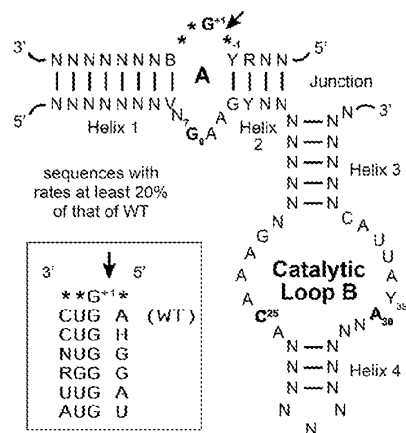


Fig. 1A

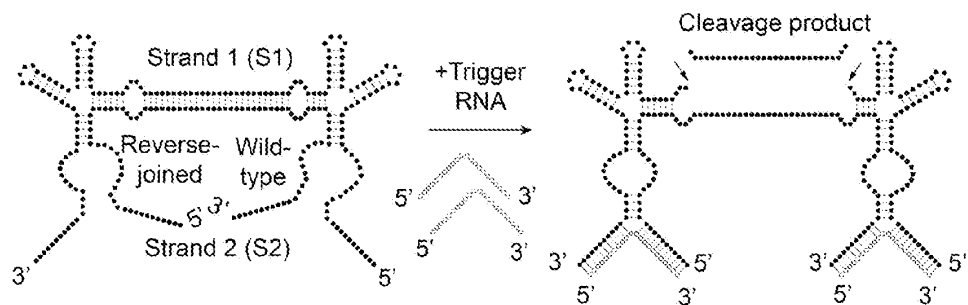


Fig. 1Bi

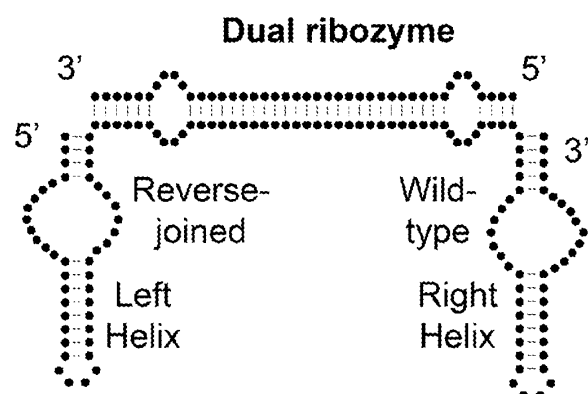


Fig. 1Bii

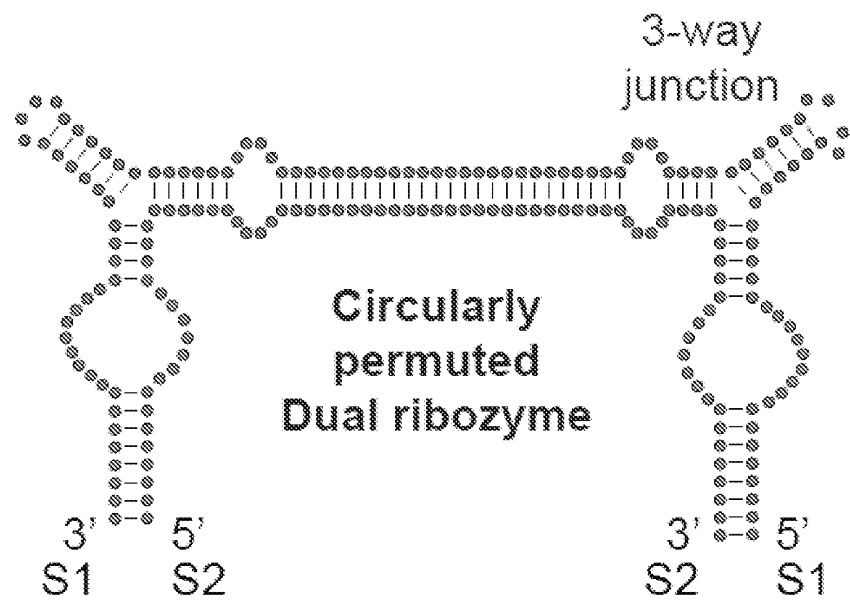


Fig. 1Biii

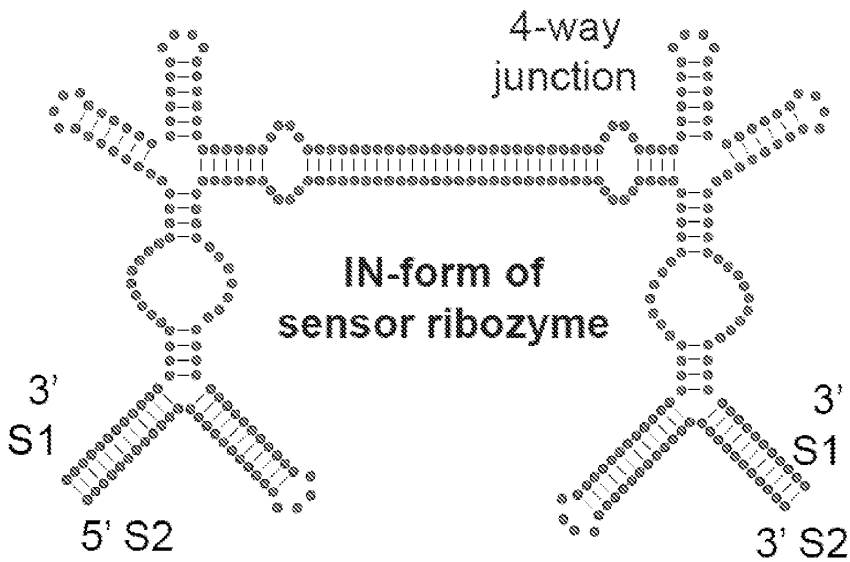


Fig. 1Biv

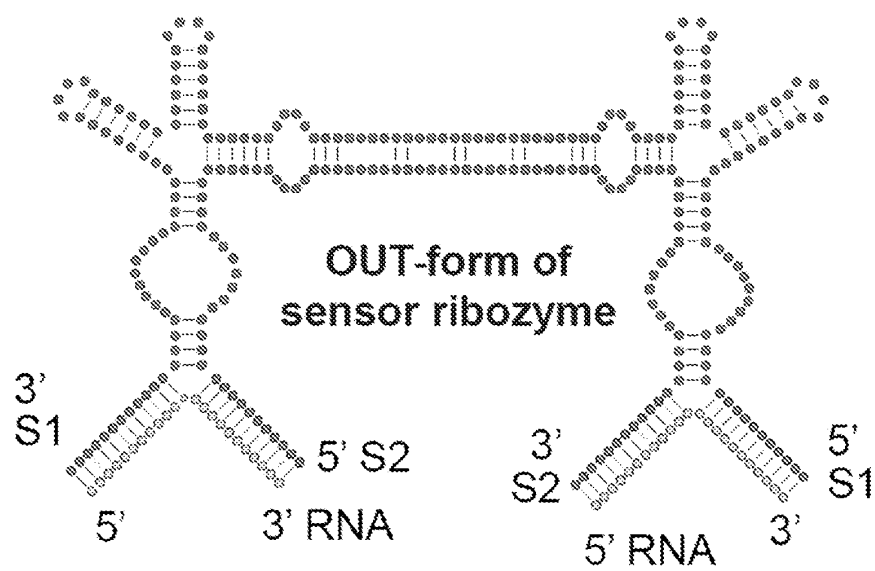


Fig. 1Bv

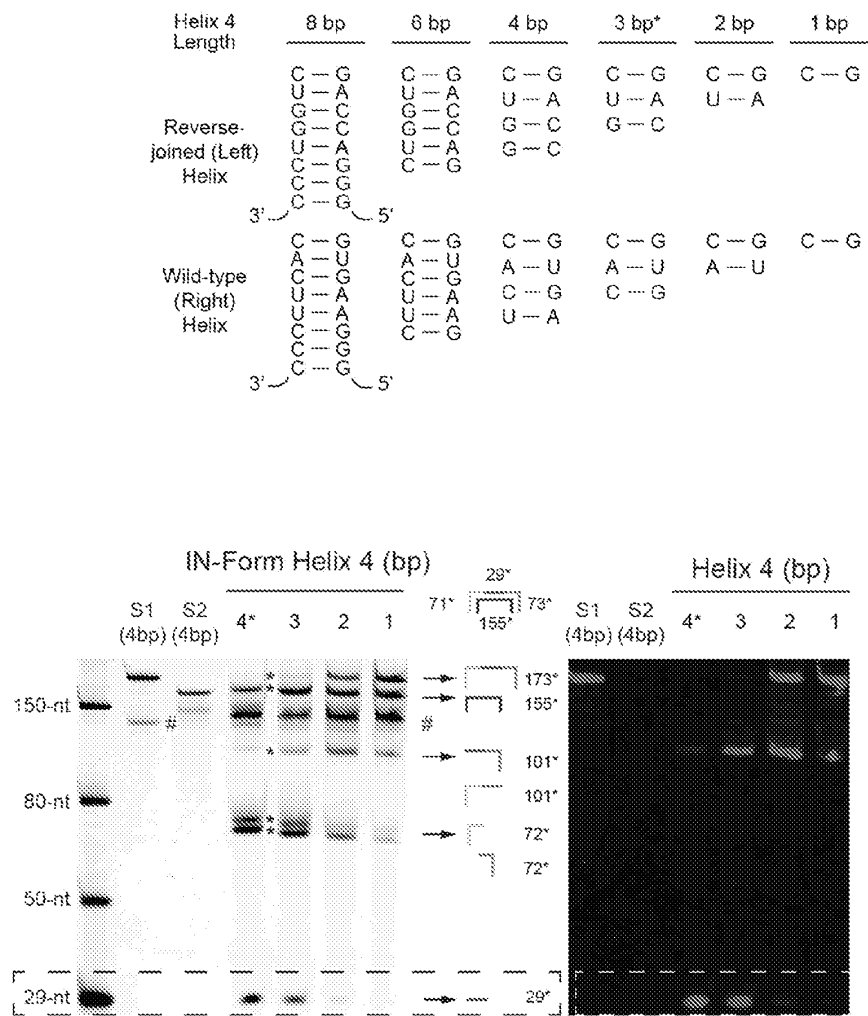
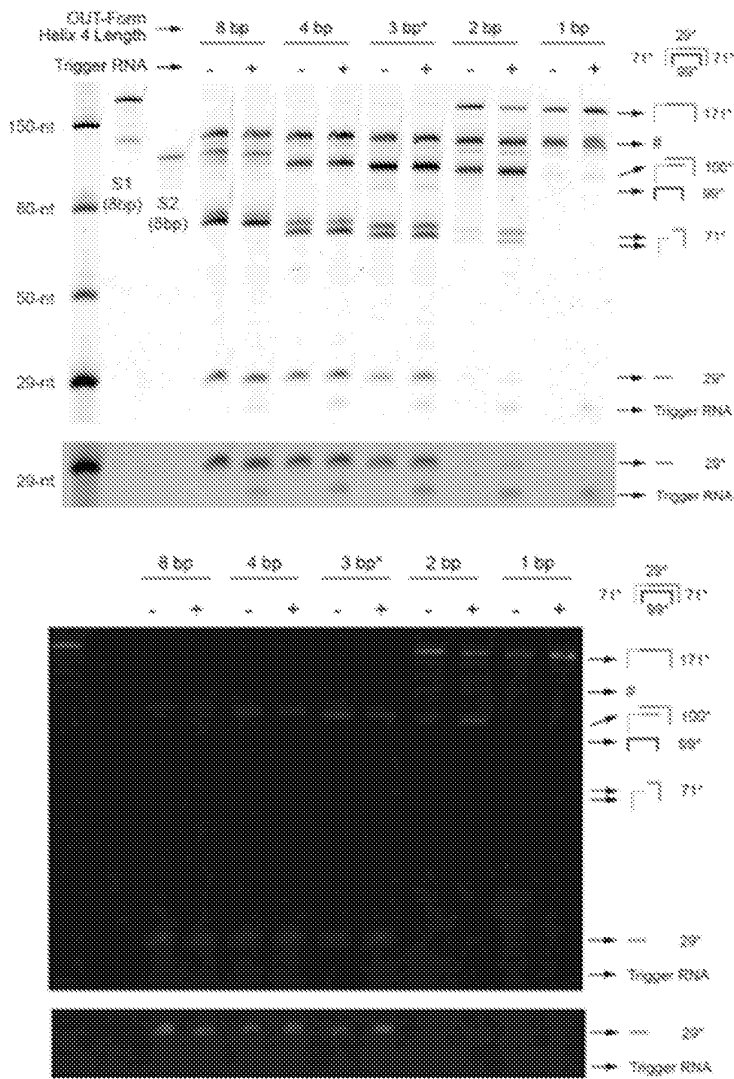


Fig. 1C



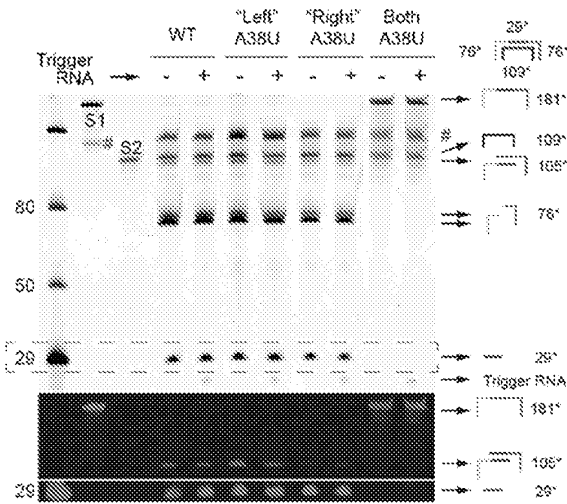


Fig. 2A

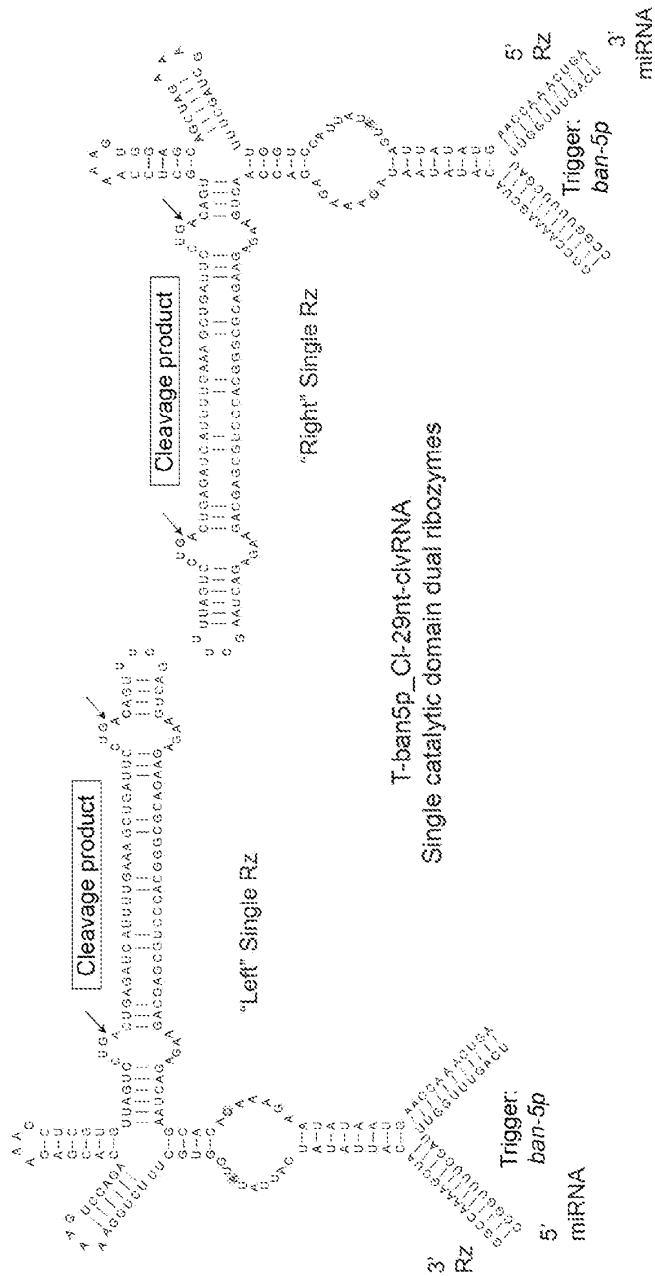


Fig. 2B

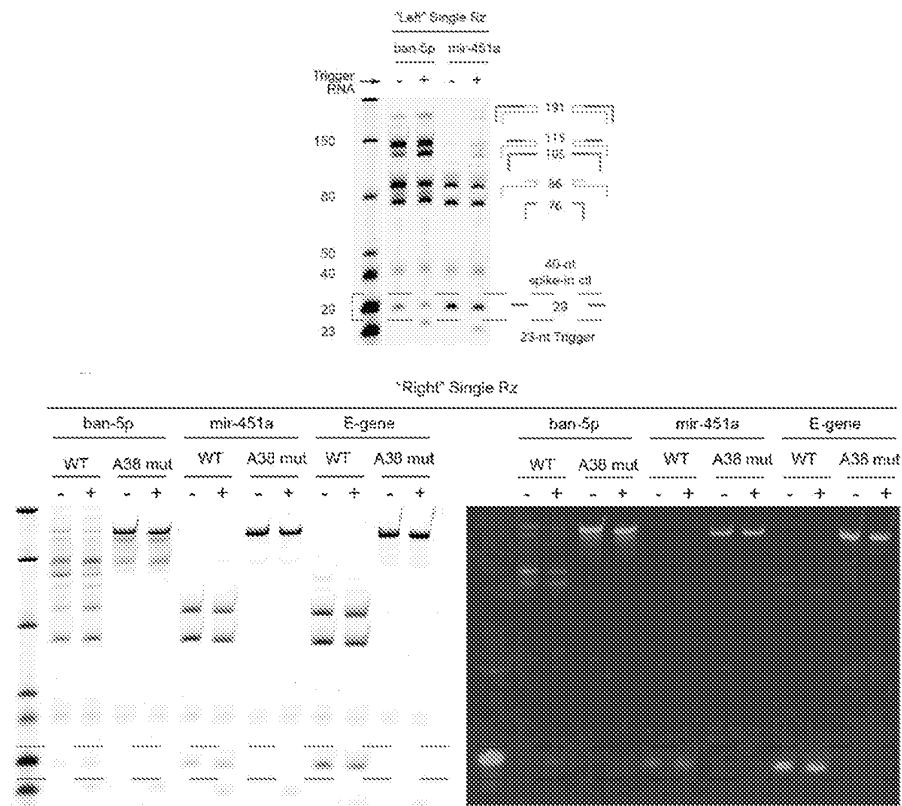


Fig. 2C

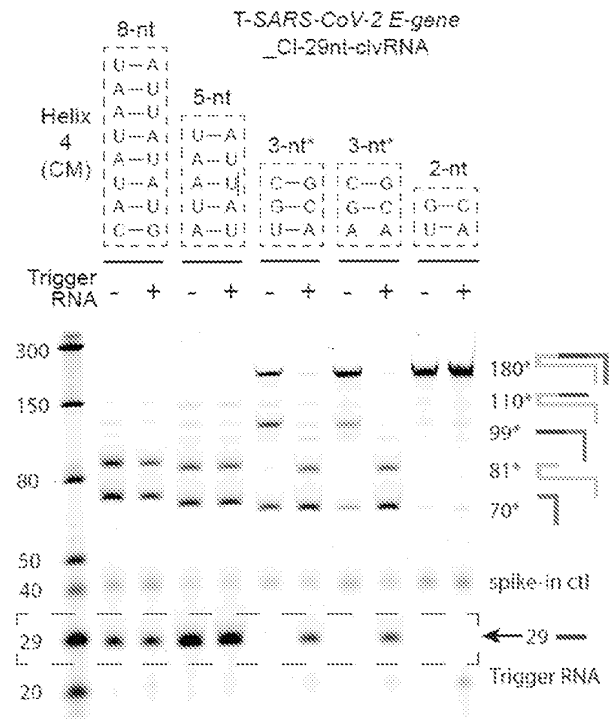


Fig. 2D

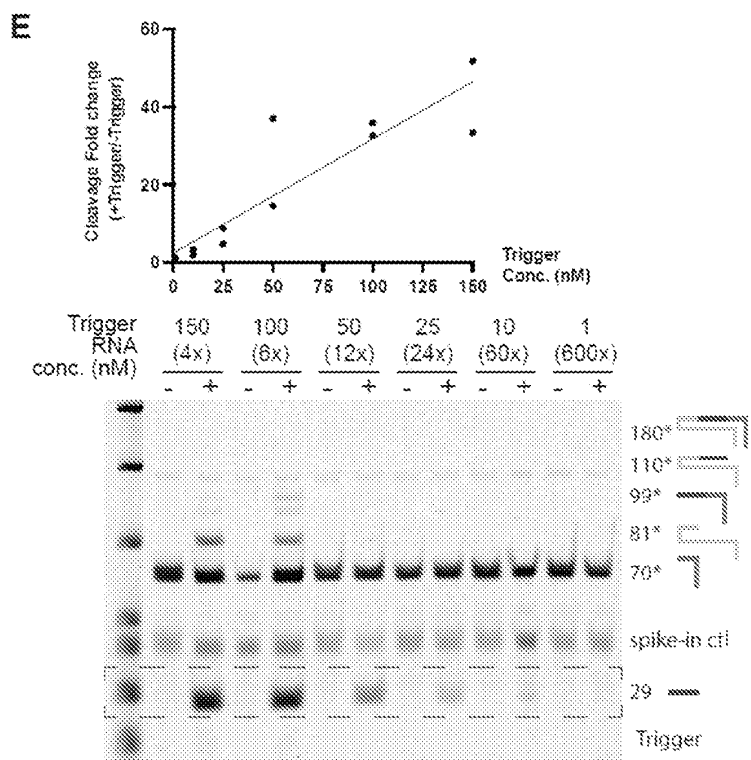


Fig. 2E

WT	UUCGGAAGAGACAGGUACGU	SEQ ID NO: 475
1nt mut 2	UACGGAAGAGACAGGUACGU	SEQ ID NO: 476
1nt mut 3	UUGGGAAGAGACAGGUACGU	SEQ ID NO: 477
1nt mut 4	UUCGGAAGAGACAGGUACGU	SEQ ID NO: 478
2nt mut 2 + 3	UAGGGAAGAGACAGGUACGU	SEQ ID NO: 479
2nt mut 2 + 4	UACCGAAGAGACAGGUACGU	SEQ ID NO: 480
2nt mut 3 + 4	UUGCGAAGAGACAGGUACGU	SEQ ID NO: 481
S-gene	CUUCUUCAGGUUGGACAGCU	SEQ ID NO: 482

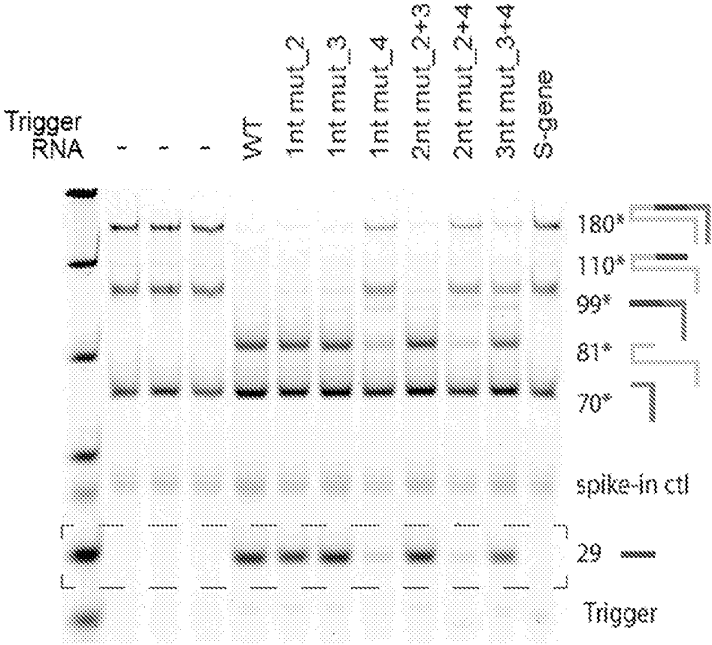


Fig. 2F

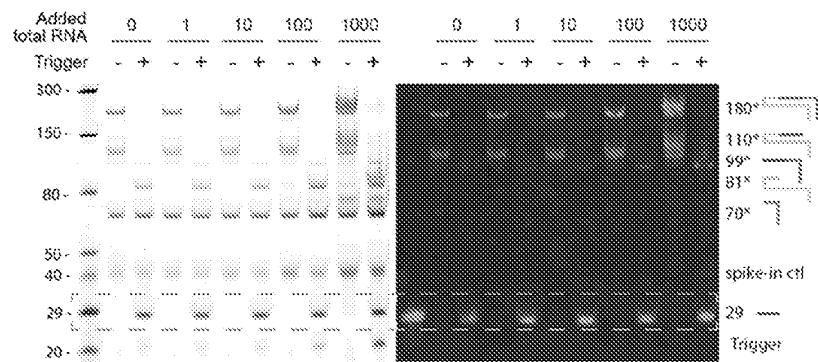


Fig. 2G

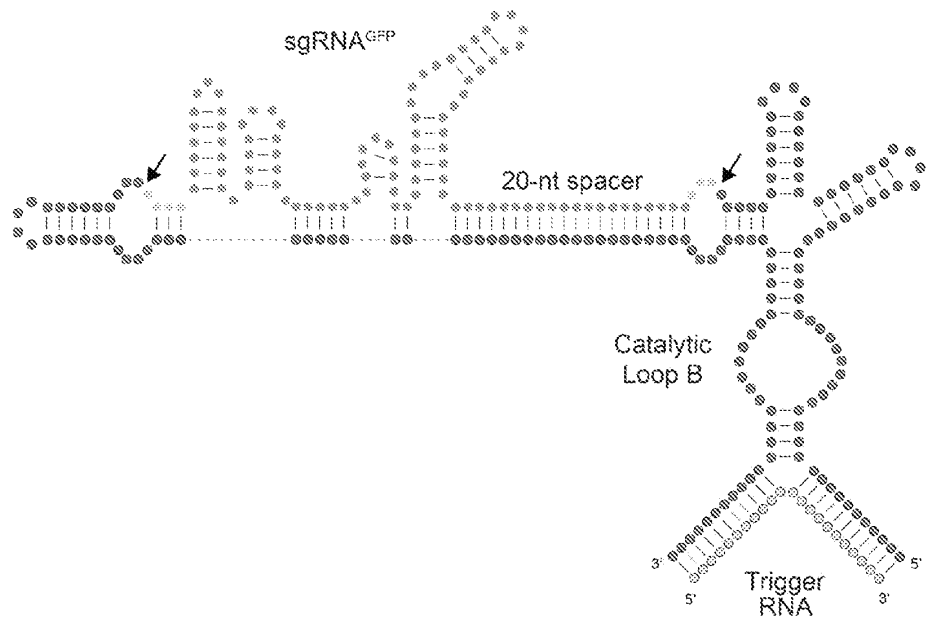


Fig. 3A

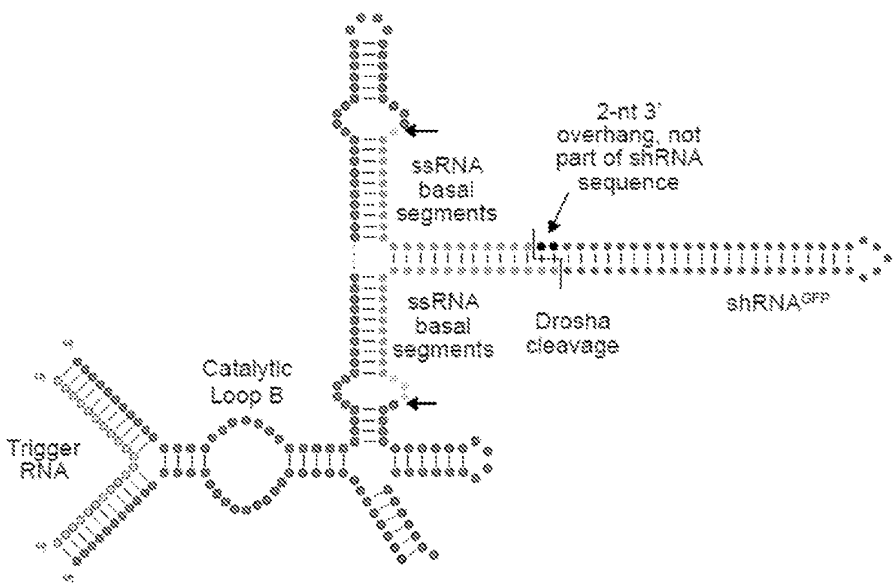


Fig. 3B

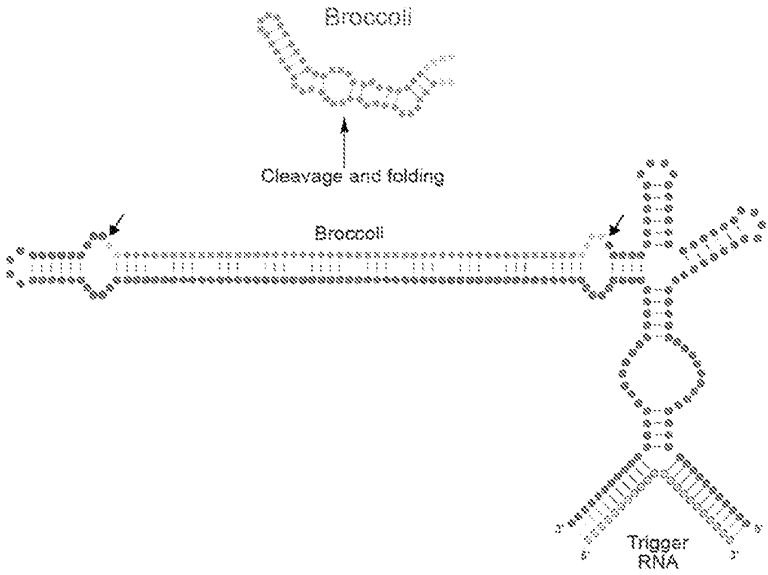


Fig. 3C

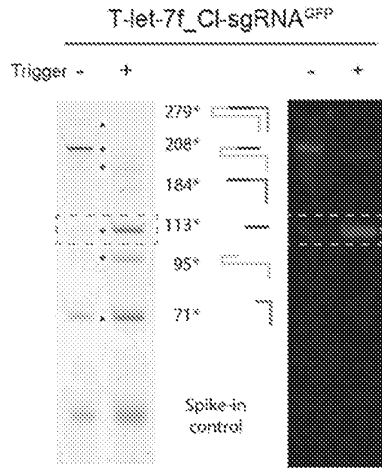


Fig. 3D

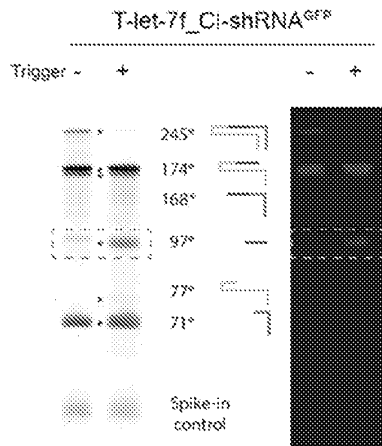


Fig. 3Ei

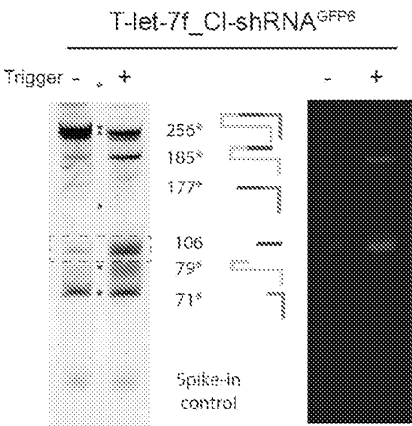


Fig. 3Eii

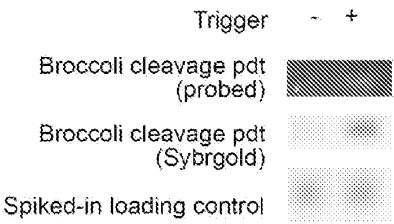


Fig. 3F

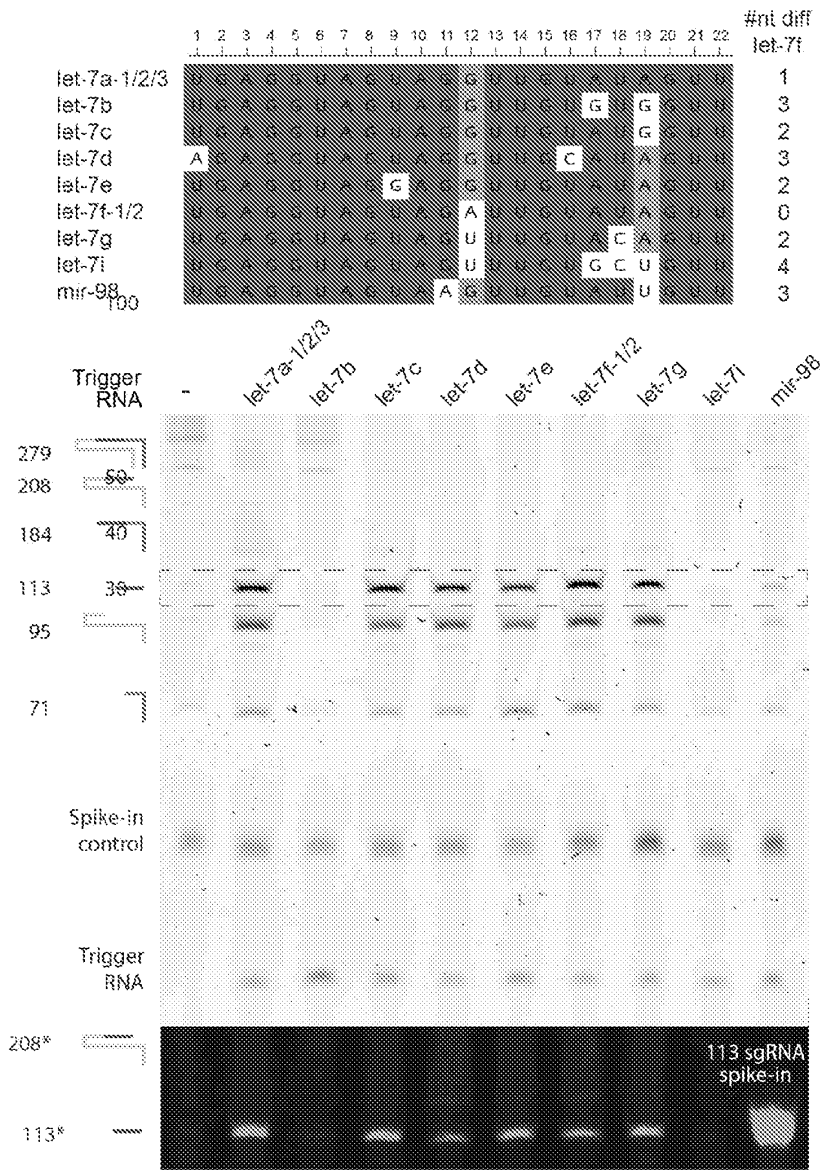


Fig. 3G

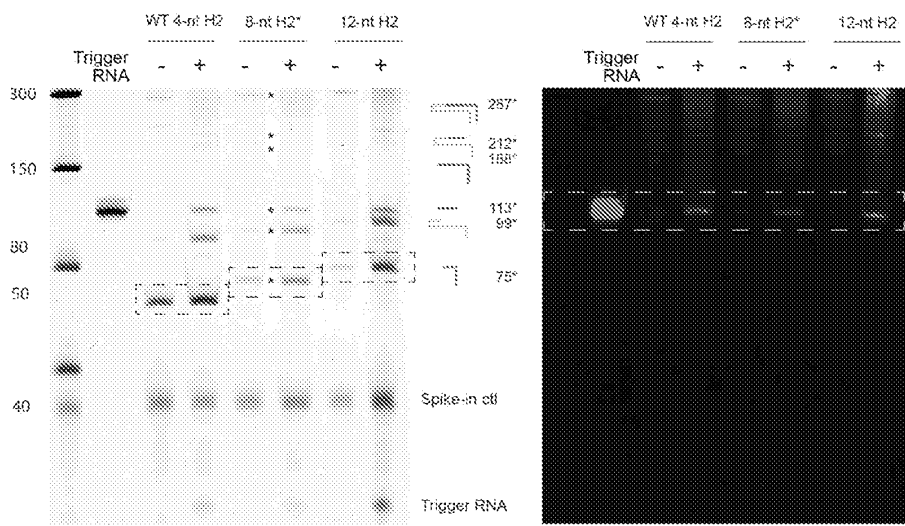
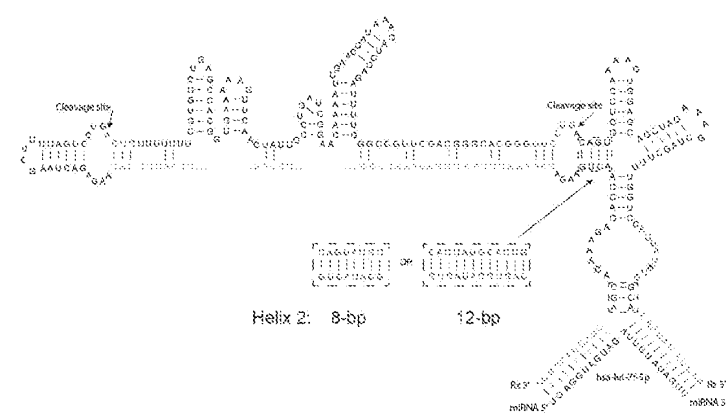


Fig. 3H

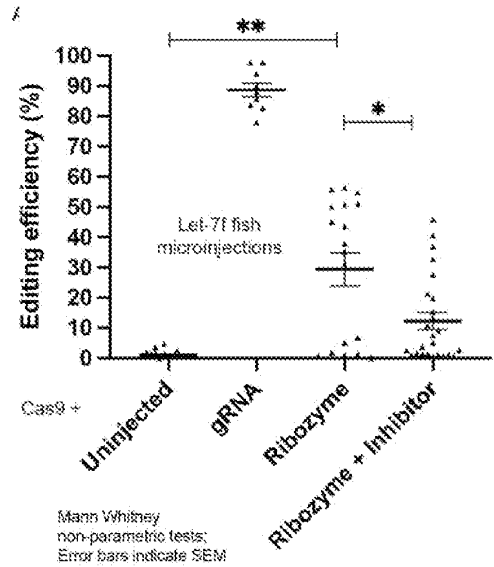


Fig. 4A

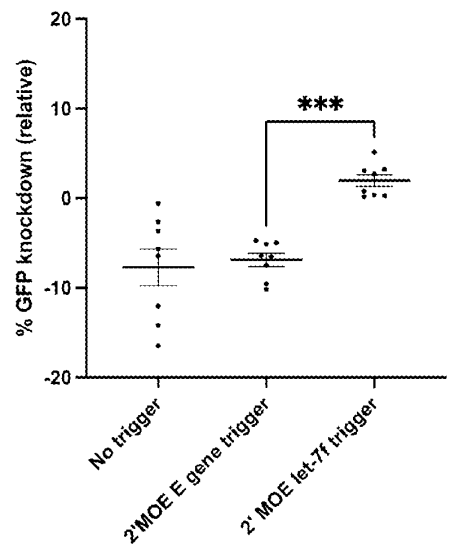


Fig. 4B

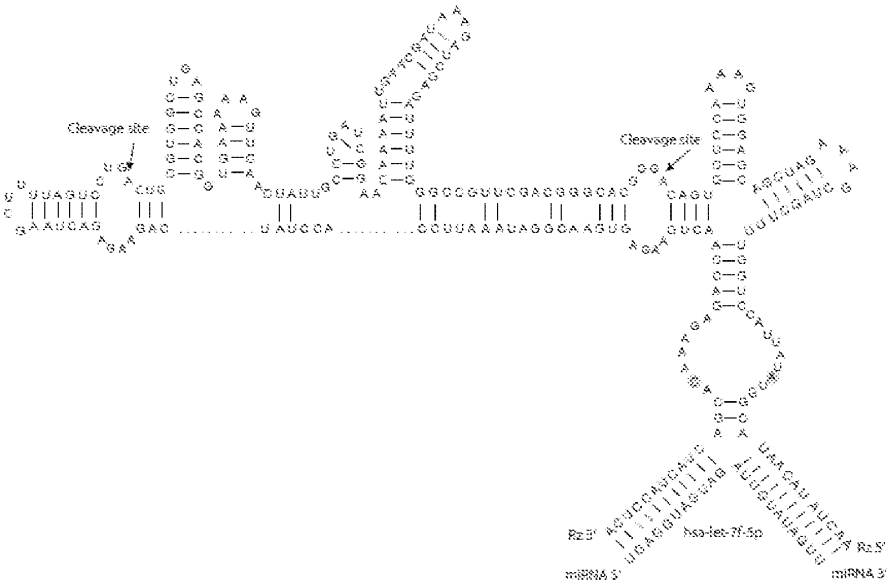


Fig. 5A

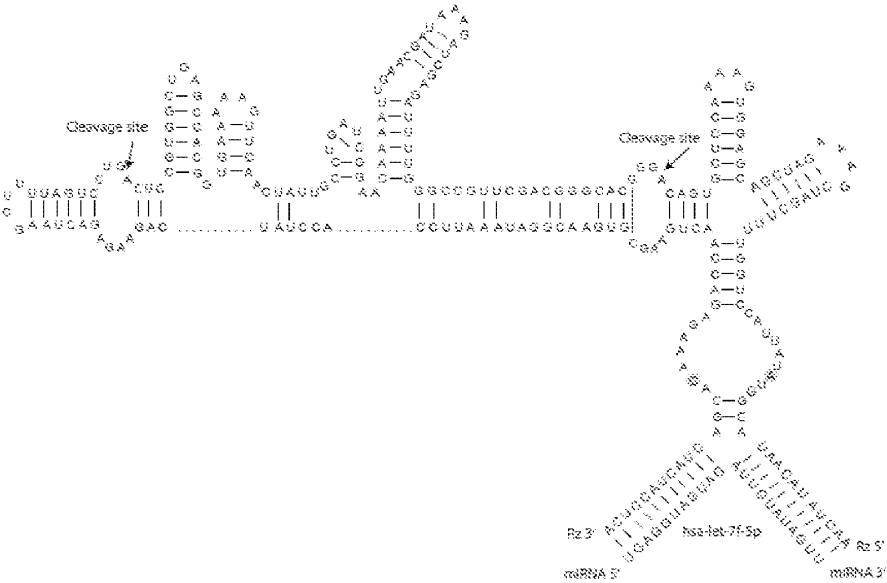


Fig. 5B

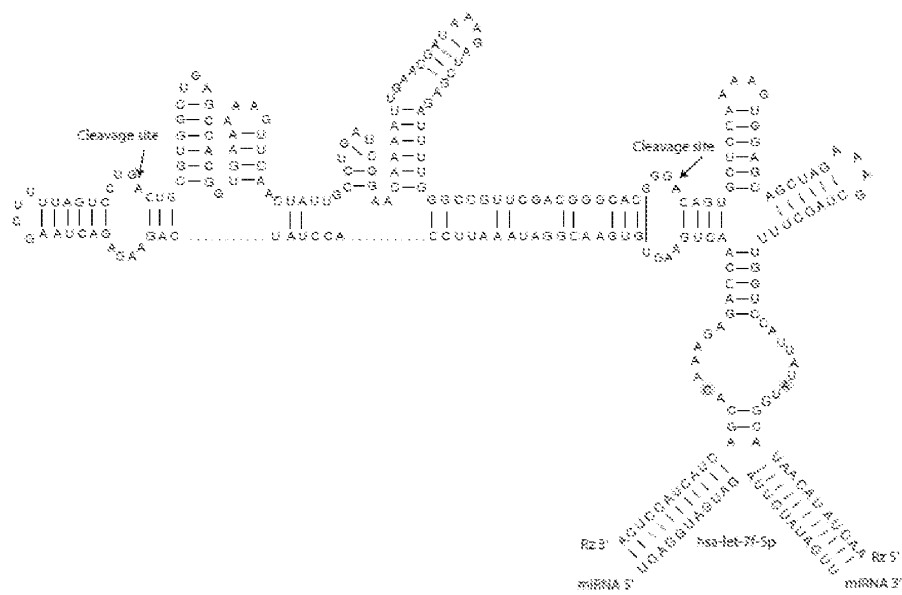


Fig. 5C

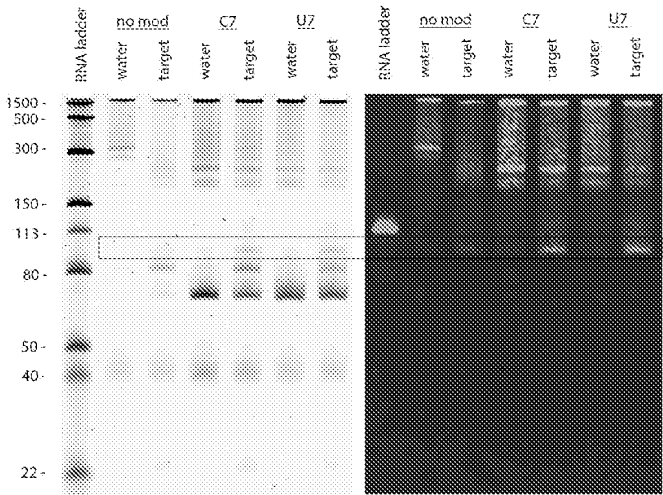


Fig.5D

1sided_TCel-mir-238_CstartgRNA-GFP_ML_modC1_8x2_extra_C7_addJC

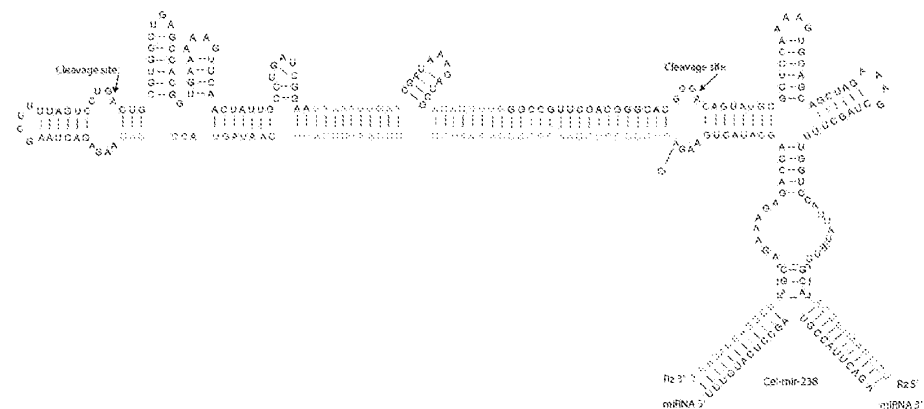
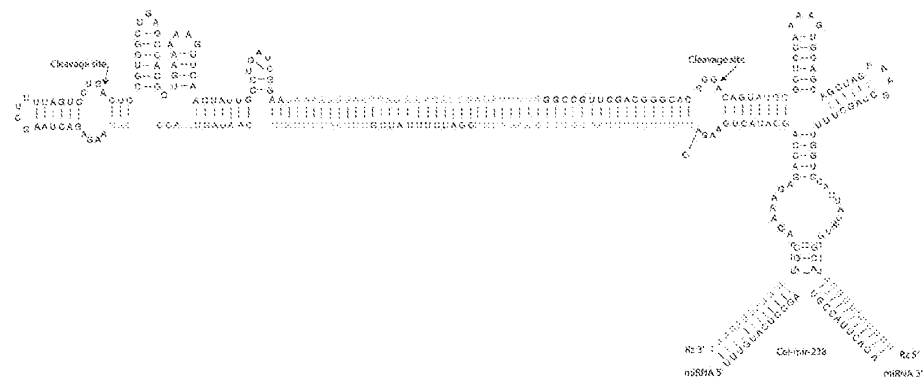


Fig. 6Ci

1sided_TCel-mir-238_CstartgRNA-GFP_ML_modC2_3H2_extra_C7_addUC



5

Fig. 6Cii

1sided_TCel-mir-238_CstartgRNA-GFP_ML_mod13_8K2_extra_CT_2dd3J

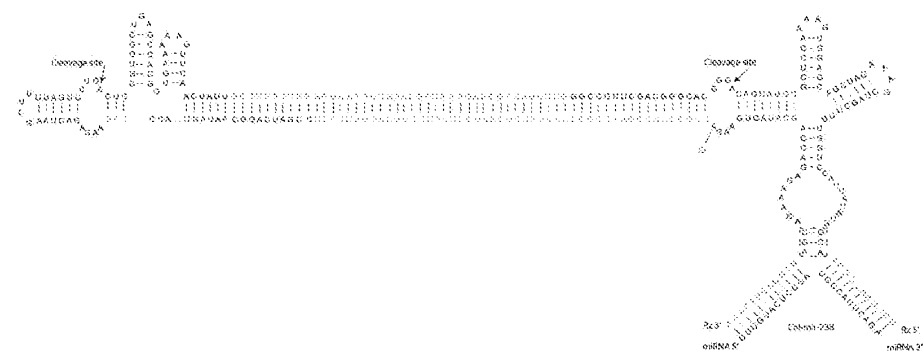


Fig. 6Ciii

1sided_Tlet7f-232_CstartgRNA-GFP_ML_modC4_2N2_extra_C7

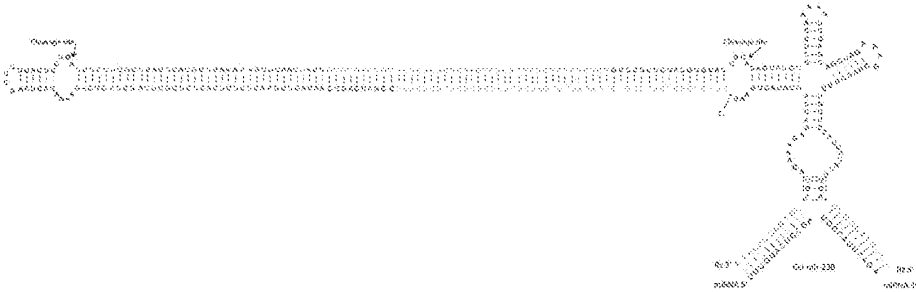
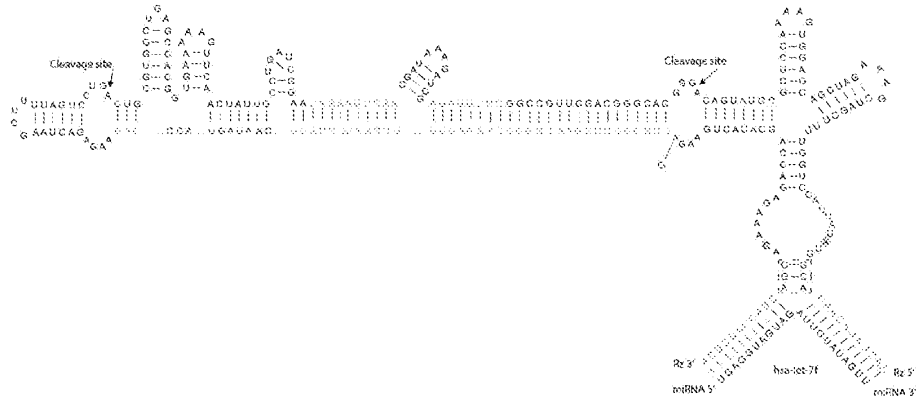


Fig. 6Civ

1sided_Tlet7f_CstartgRNA-GFP_ML_modC1_2N2_extra_C7_addUC



5

Fig. 6Di

1sided_Tlet7f_CstartgRNA-GFP_ML_modC2_2N2_extra_C7_addUC

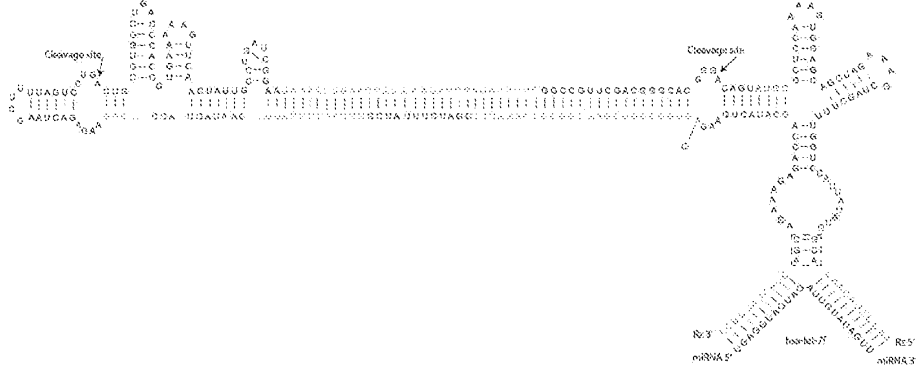


Fig. 6Dii

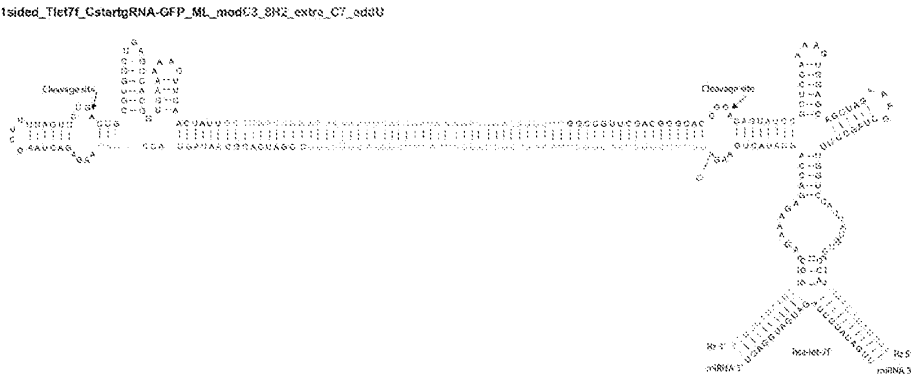


Fig. 6Diii

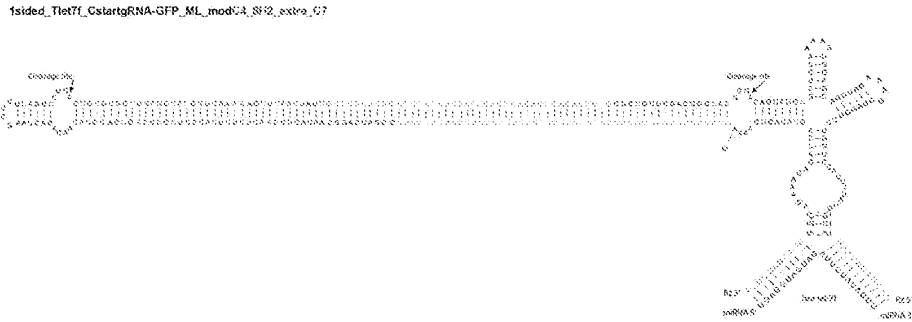


Fig. 6Div

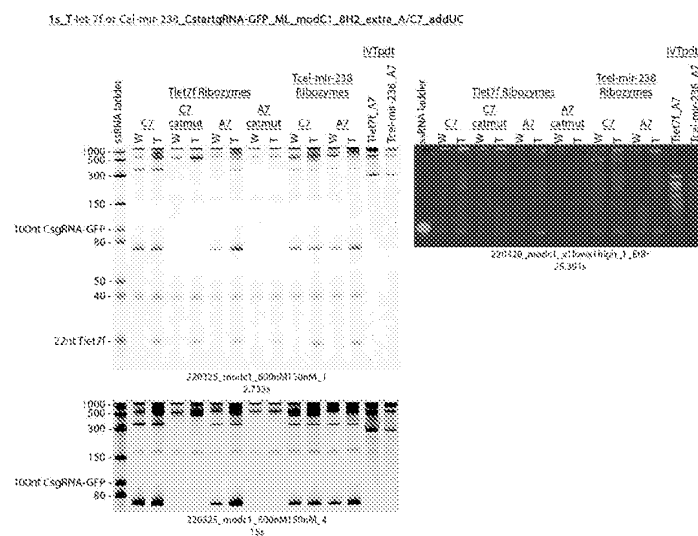


Fig. 6E

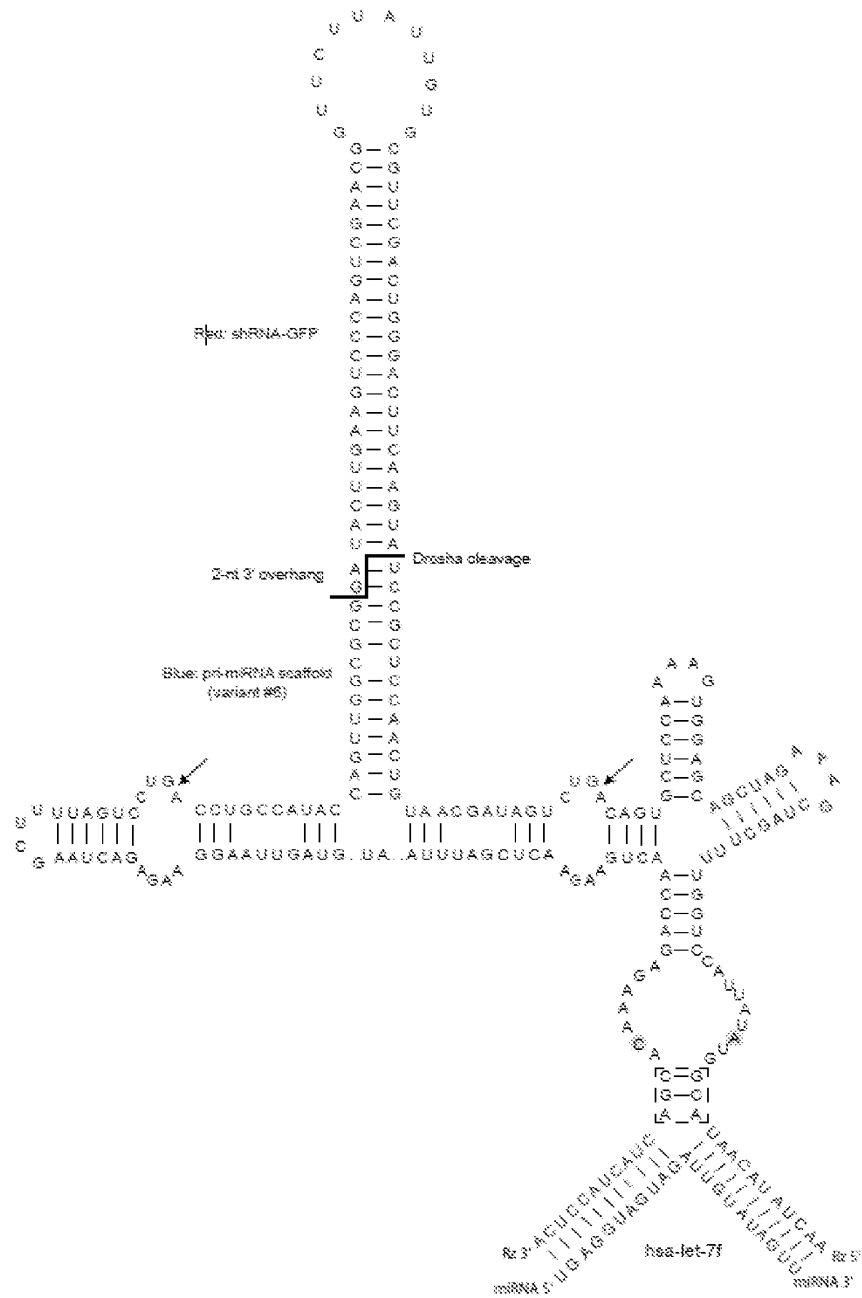


Fig. 7

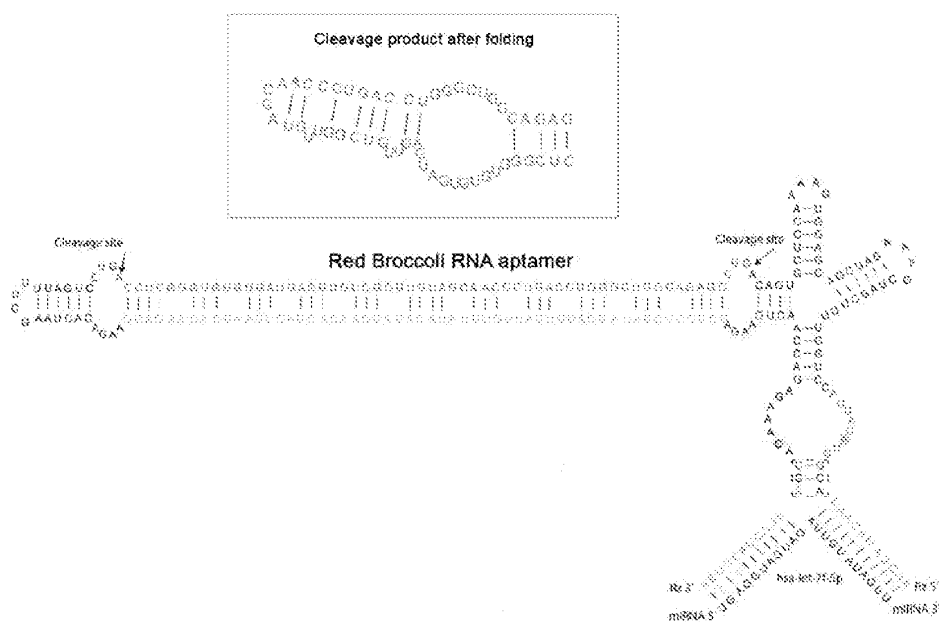


Fig. 8A,

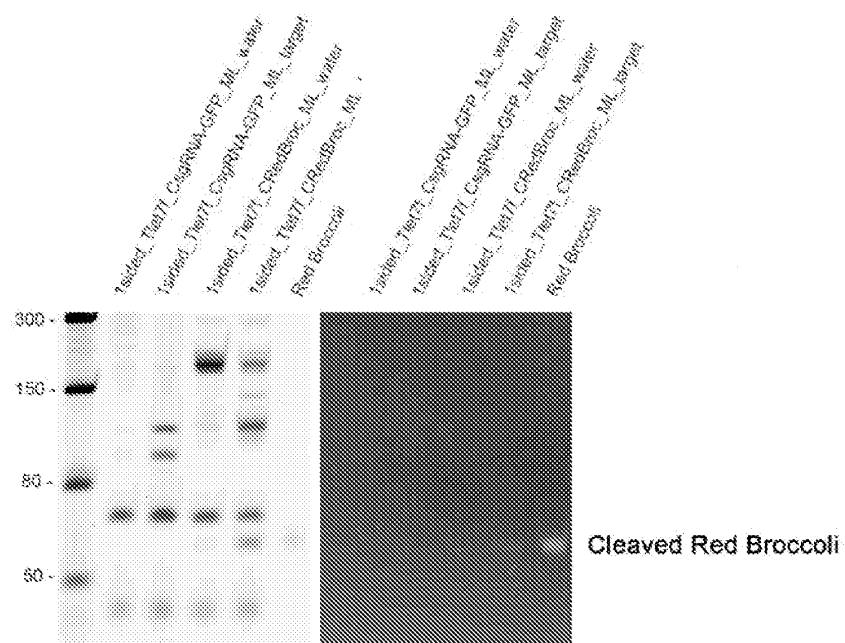


Fig. 8B

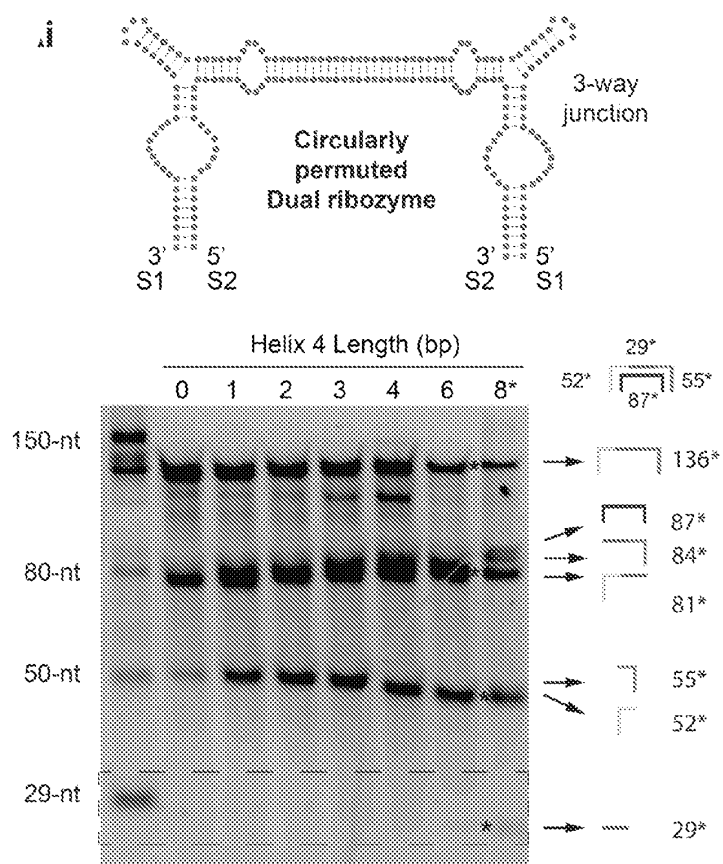
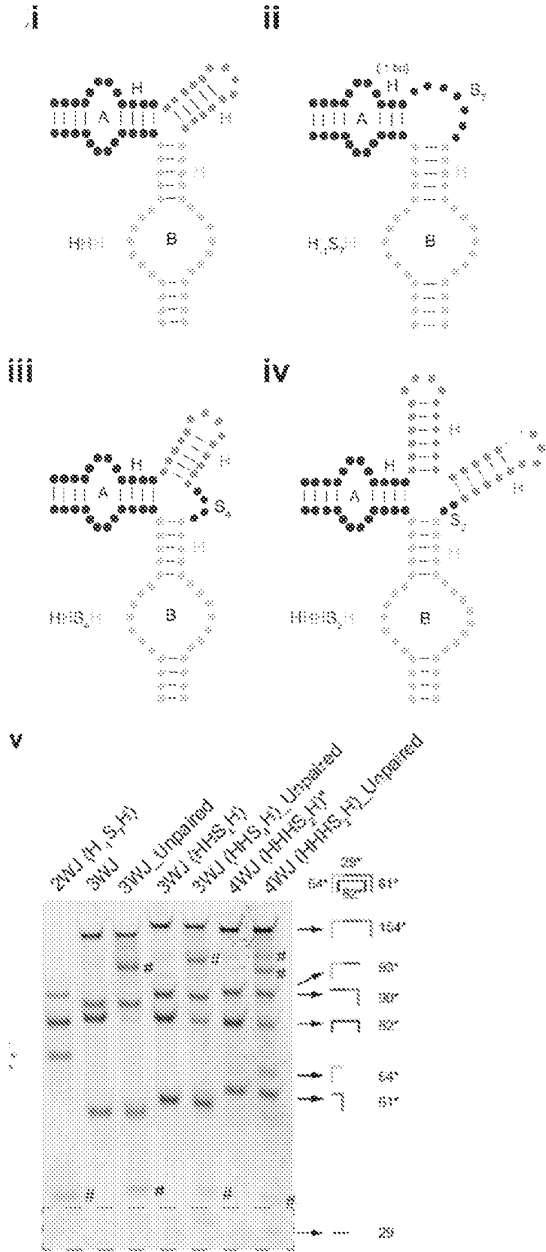


Fig. 9A



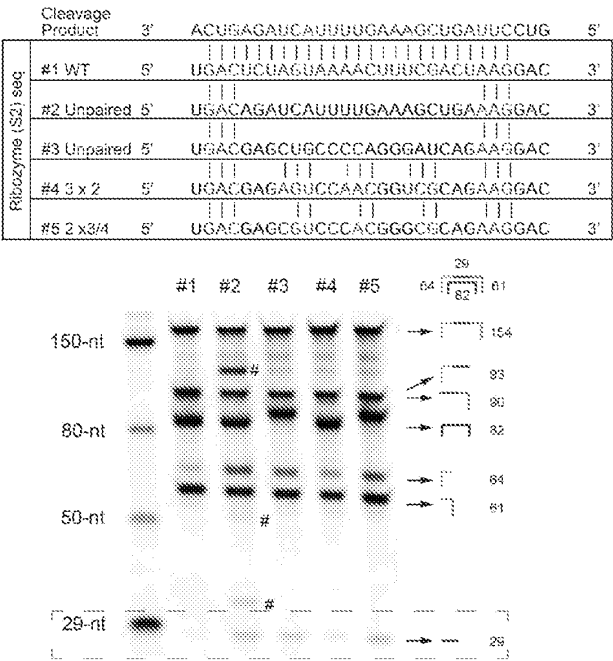


Fig. 9C

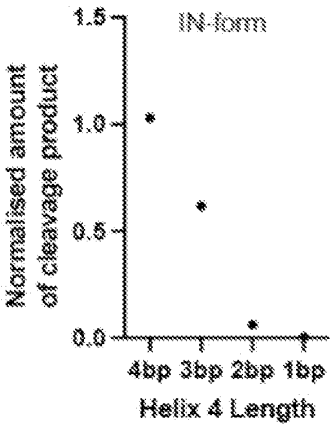


Fig. 9D

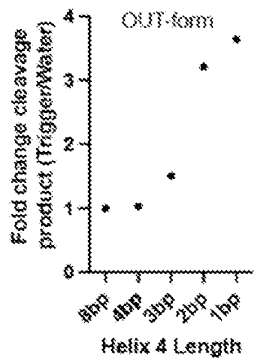


Fig. 9E

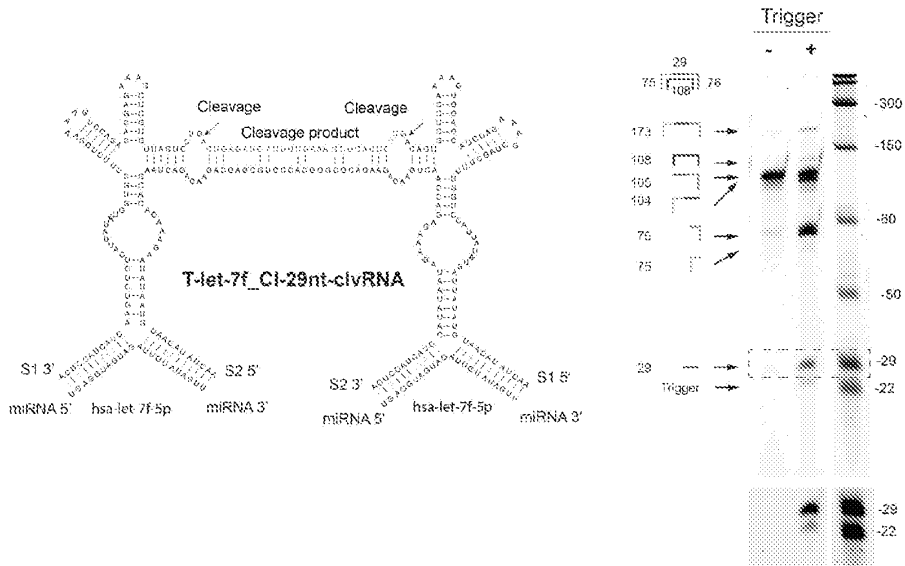


Fig. 9F

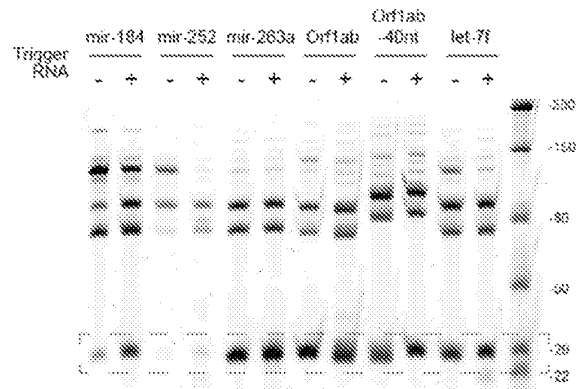


Fig. 10A

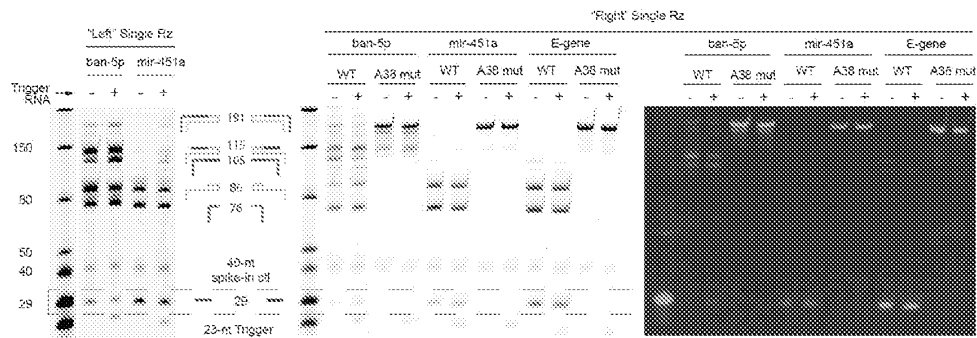


Fig. 10B

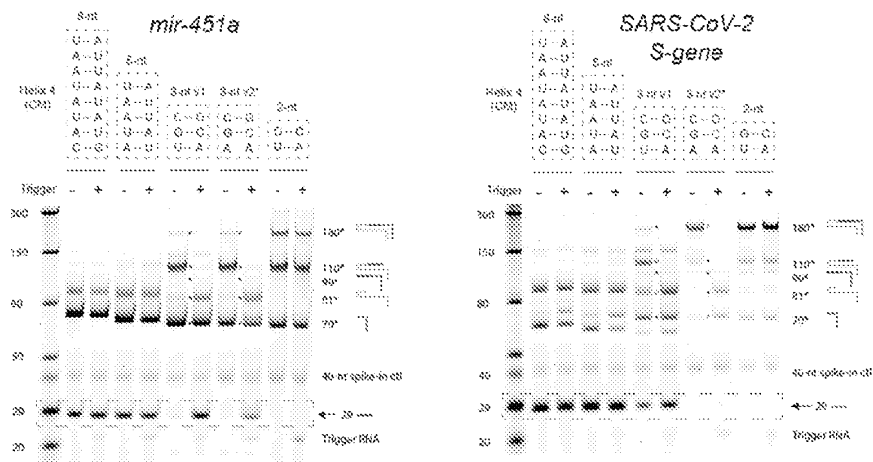


Fig. 10C

E-gene Trigger		SEQ ID NO:
1nt mut_2	U <u>A</u> CGGAAGAGACAGGUACGU	484
1nt mut_3	UUGGGAAGAGACAGGUACGU	485
1nt mut_4	UUC <u>C</u> GAAGAGACAGGUACGU	486
1nt mut_5	UUCG <u>C</u> AAGAGACAGGUACGU	487
1nt mut_6	UUCGGA <u>U</u> AGAGACAGGUACGU	488
1nt mut_7	UUCGGAU <u>A</u> GAGACAGGUACGU	489
1nt mut_8	UUCGGAAC <u>A</u> GAGACAGGUACGU	490
1nt mut_9	UUCGGAAG <u>U</u> GACAGGUACGU	491
1nt mut_10	UUCGGAAGAC <u>A</u> CAGGUACGU	492
1nt mut_11	UUCGGAAGAG <u>U</u> CAGGUACGU	493
2nt 2 + 4	U <u>AC</u> CGAAGAGACAGGUACGU	494
2nt 4 + 7	UUC <u>CC</u> GAUAGAGACAGGUACGU	495
3nt 2 + 4 + 7	U <u>ACC</u> GAUAGAGACAGGUACGU	496

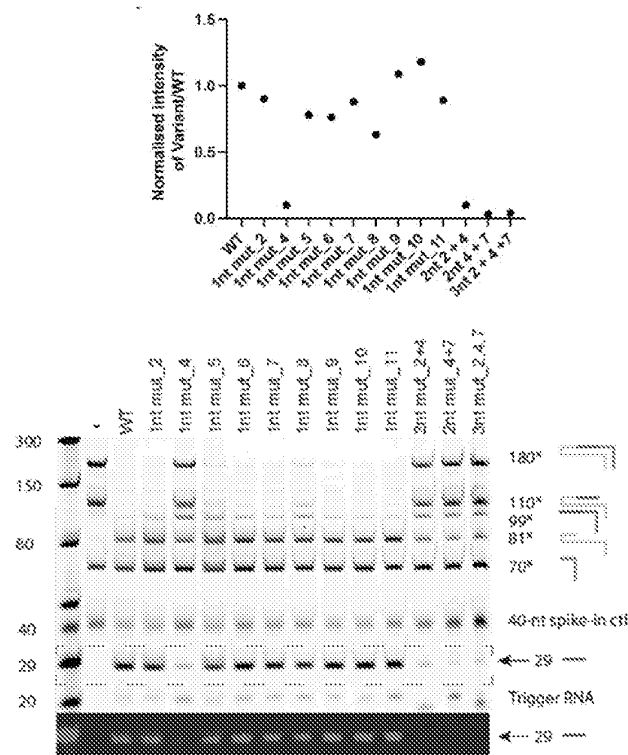


Fig. 10D

		SEQ ID NO:
HPRT	AATTATGGGGATTACTAGGA	497
GFP-149R^	GGGCACGGGCAGCTTGCCGG	498
GFP-72F	GAGCTGGACGGCGACGTAAA	499
GFP-93F	GGCCACAAGTTCAGCGTGTC	500
GFP-56F	GGTGCCCATCCTGGTCGAGC	501
GFP-260R	GACGTAGCCTTCGGGCATGG	502
GFP-227R	GTCGTGCTGCTTCATGTGGT	503
GFP-175R	GTCAGGGTGGTCACGAGGGT	504
GFP-381F	GTGAACCGCATCGAGCTGAA	505

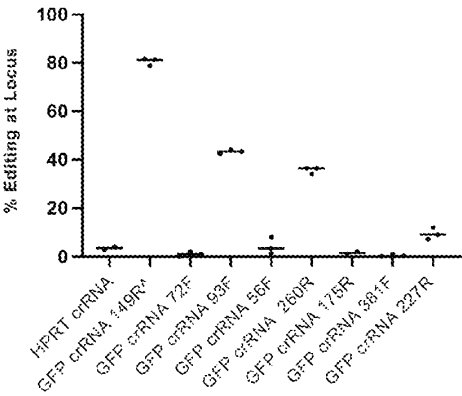


Fig. 11A

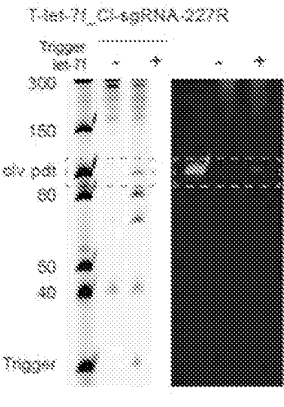


Fig. 11B

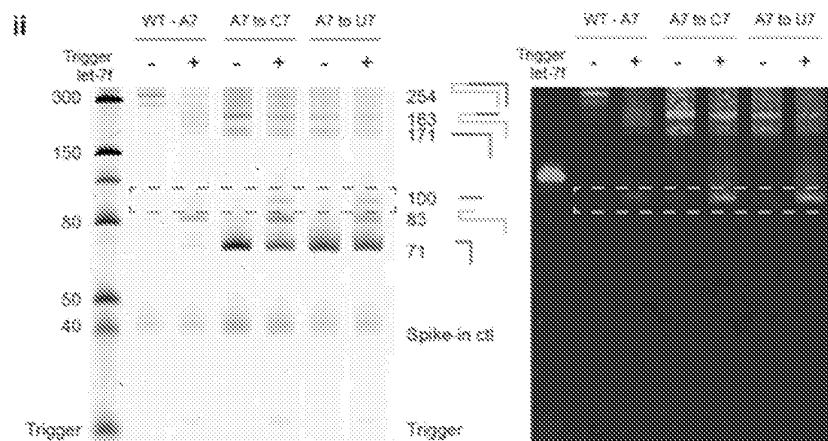
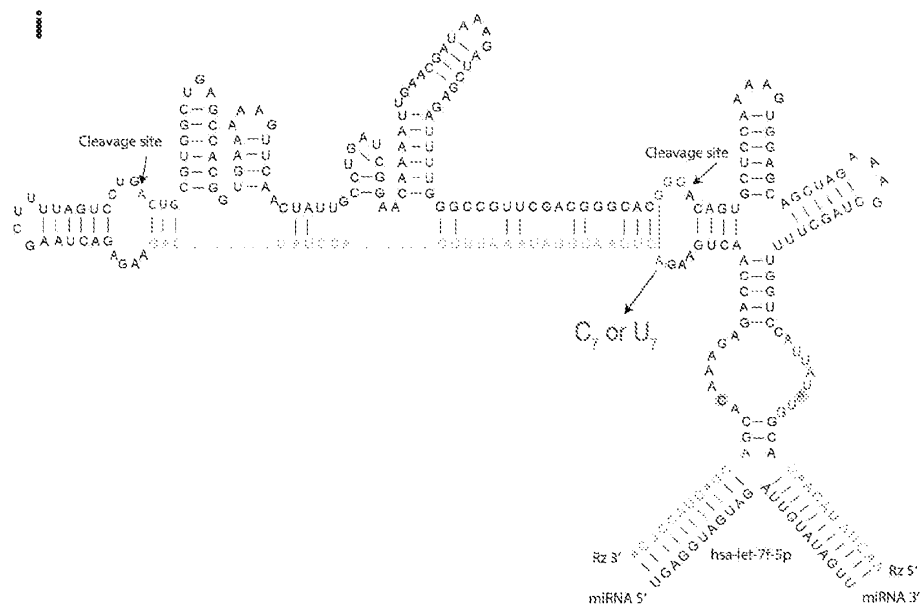


Fig. 11C

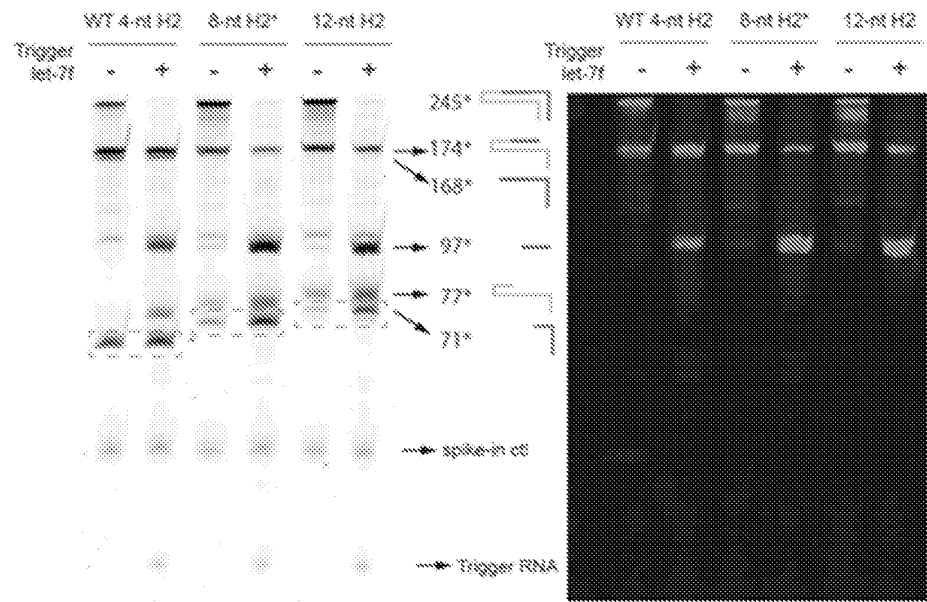


Fig. 11D

SEQ		SEQ	
ID 1		ID 2	
[C = G]		[C = G]	
[G = C]		[G = C]	
[U = A]		[A = A]	
CM1		CM2	CM3
[U = G]		[C = G]	[U = G]
[G = C]		[G = U]	[G = C]
[A = A]		[A = A]	[L =]
CM4		CM5	
[U = G]		[U = G]	
[G = C]		[G = U]	
[A = A]		[G = U]	
CM6		CM7	CM8
[A = U]		[A = U]	[C = G]
[U = A]		[G = C]	[A = U]
[A = U]		[A = A]	[L =]
CM9		CM10	
[A = U]		[C = G]	
[U = A]		[G = C]	
[A = U]		[A = U]	

* shRNA-GFP cleavage product
* right-sided auto cleavage

Fig. 12A

5

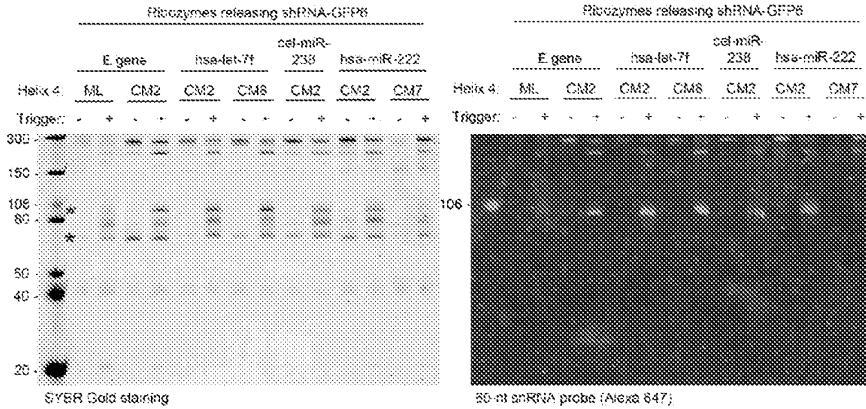


Fig. 12B

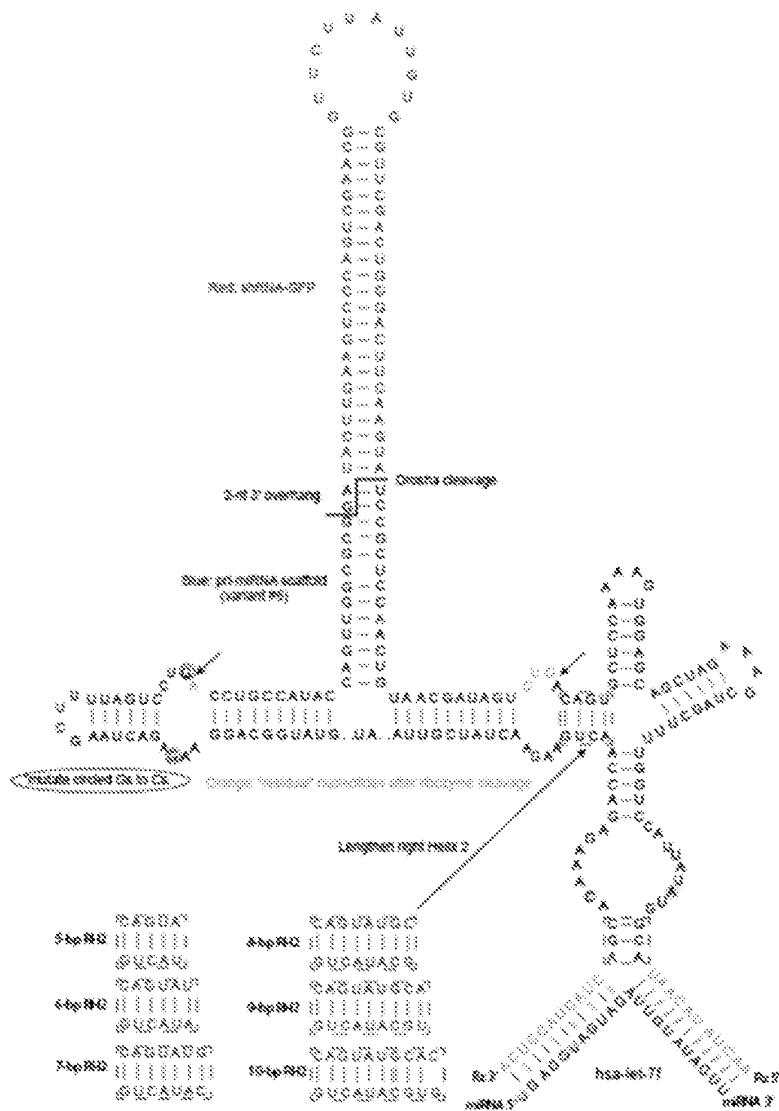


Fig. 13A

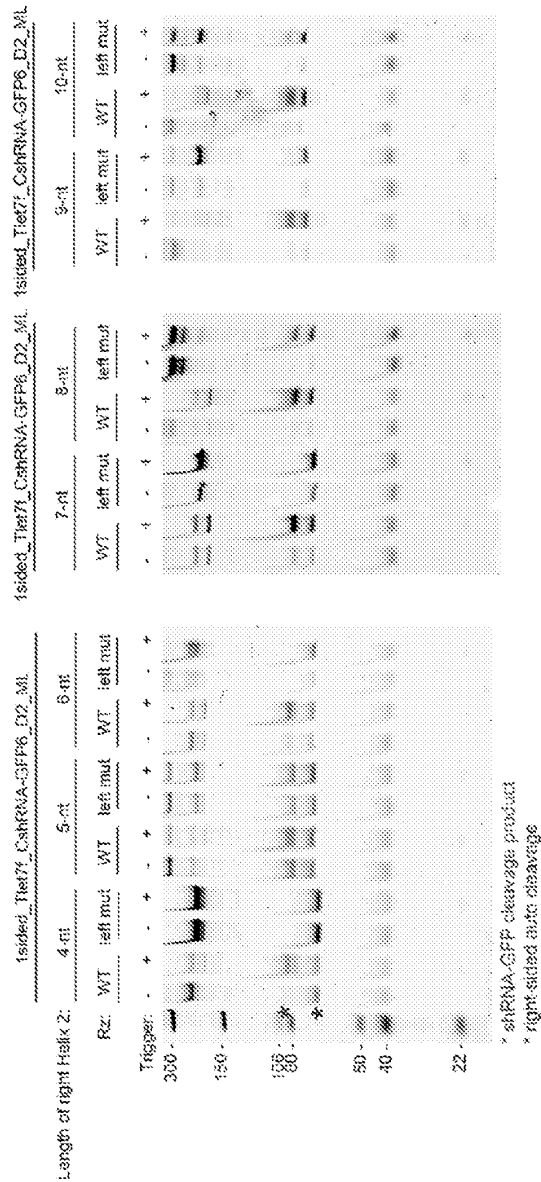


Fig. 13B

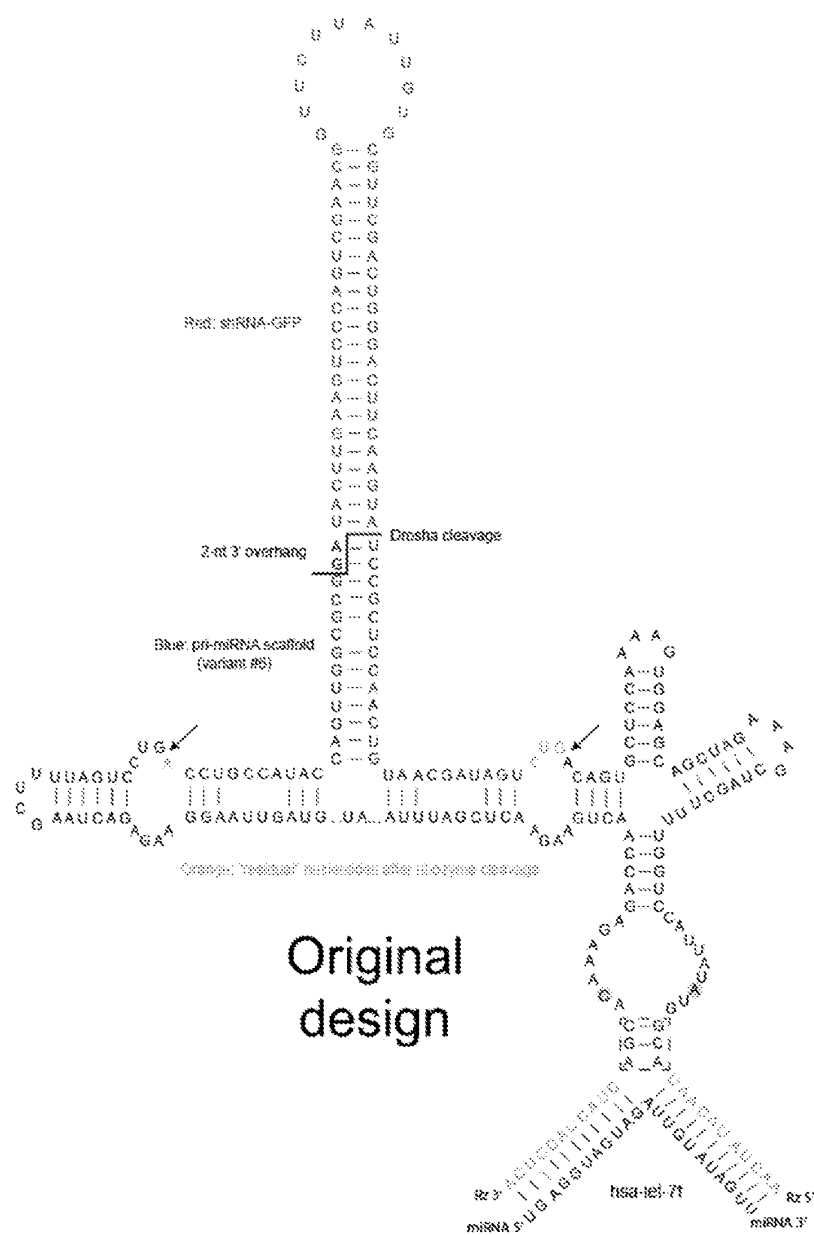


Fig. 14A

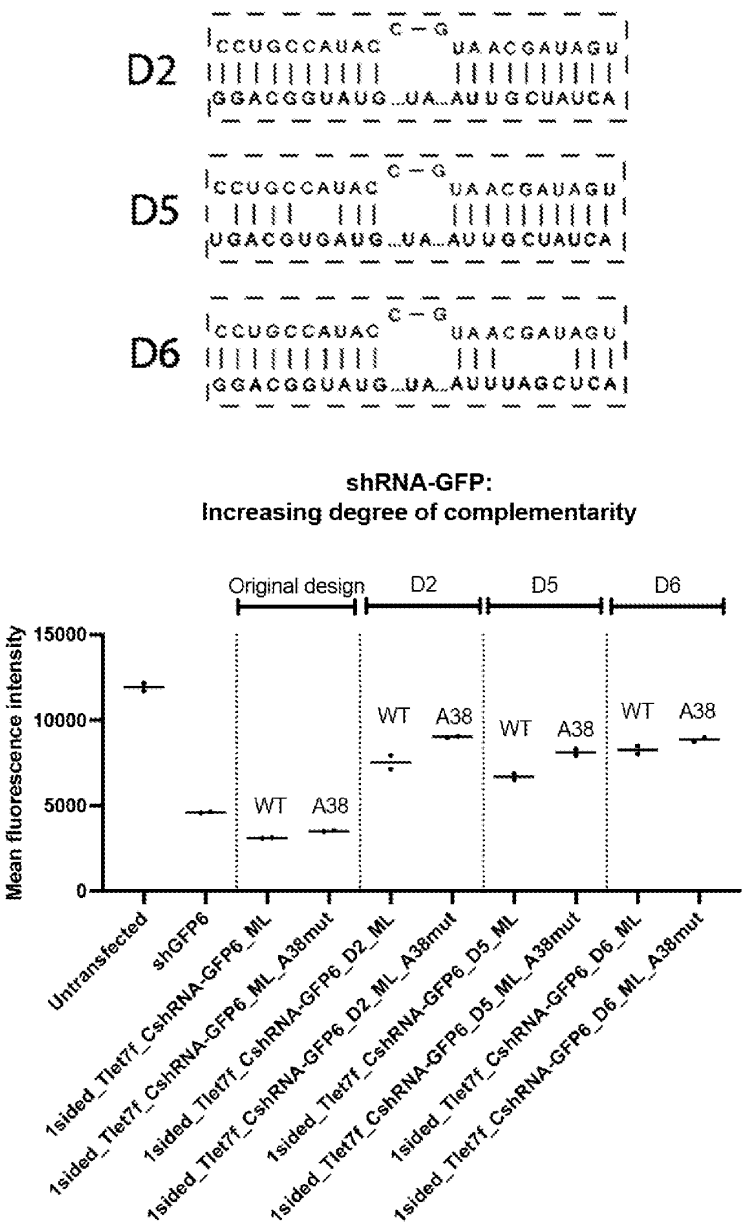


Fig. 14B

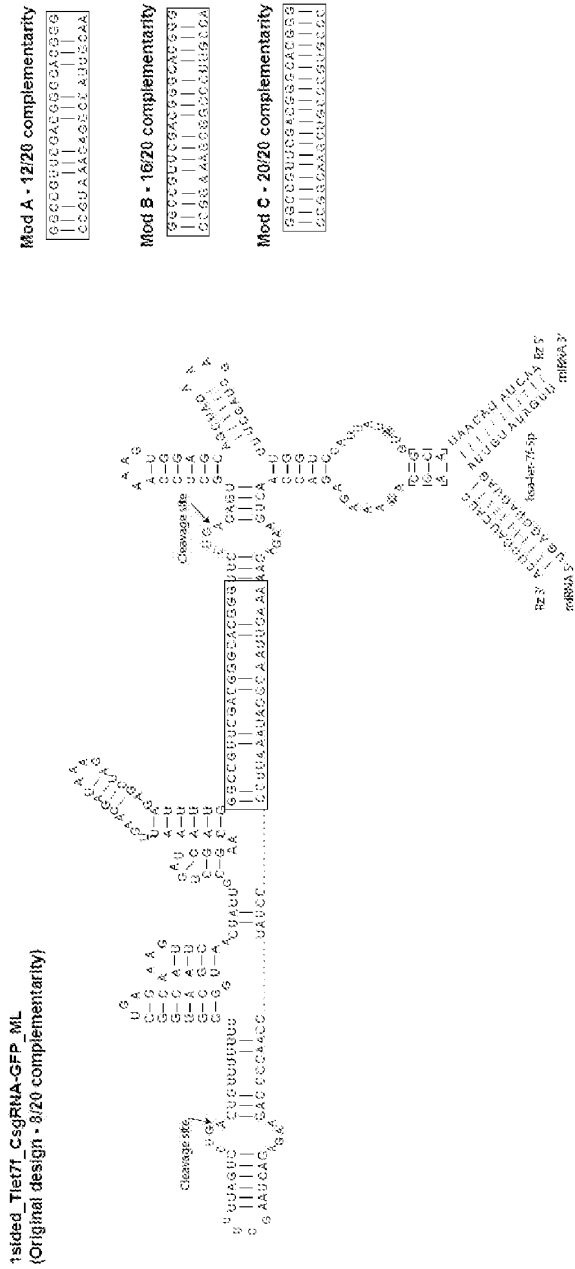


Fig. 15A

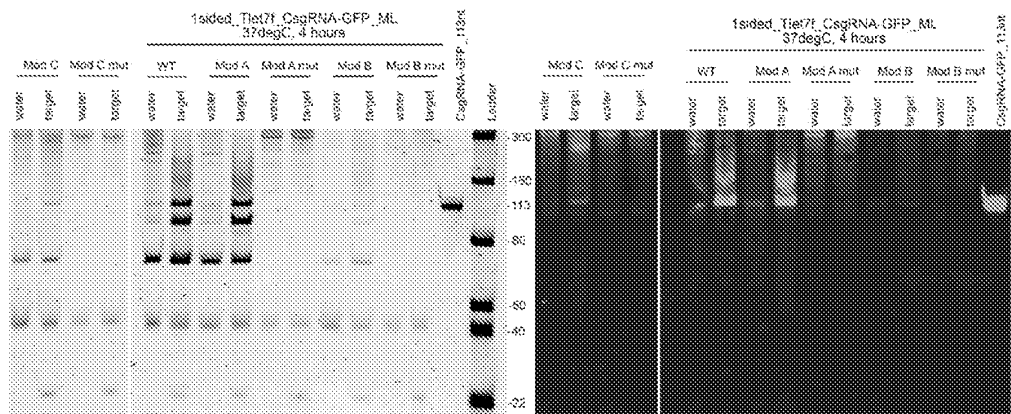


Fig. 15B

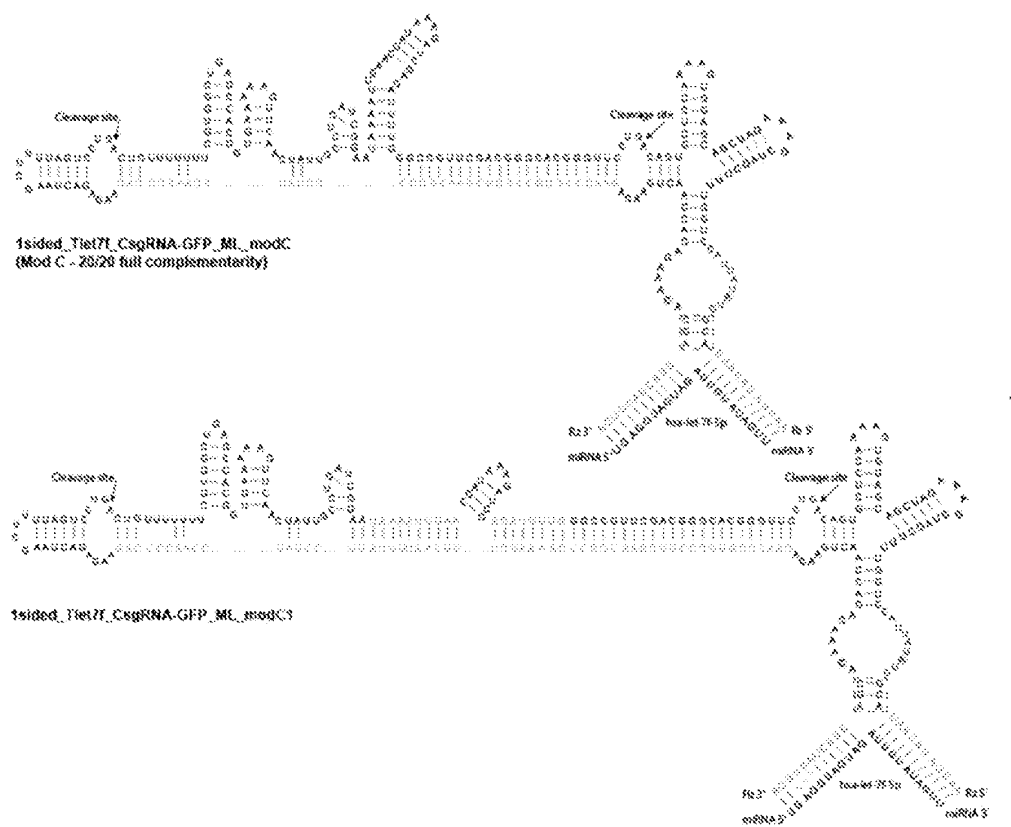


Fig. 15C

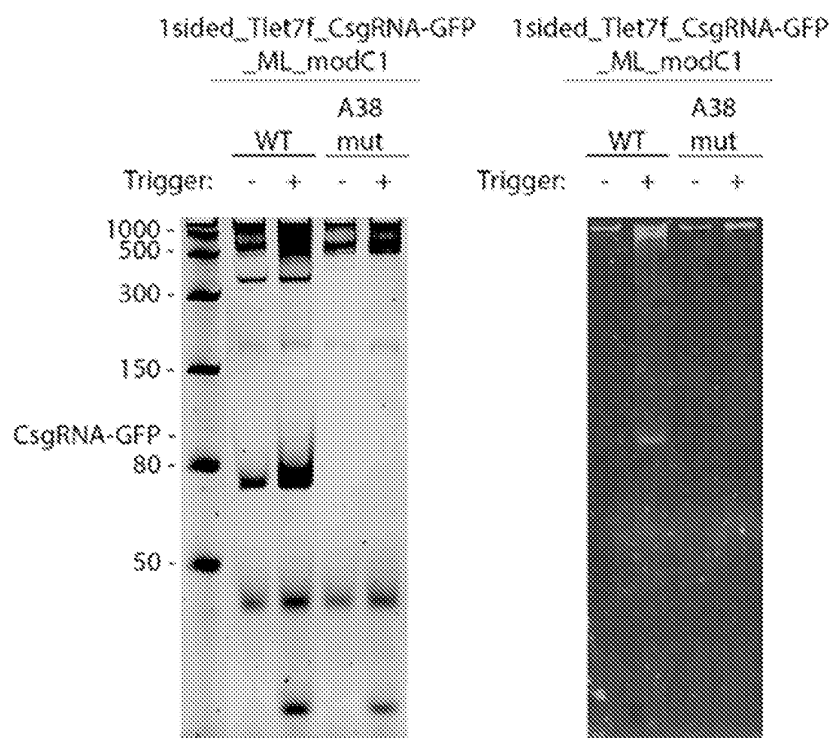


Fig. 15D

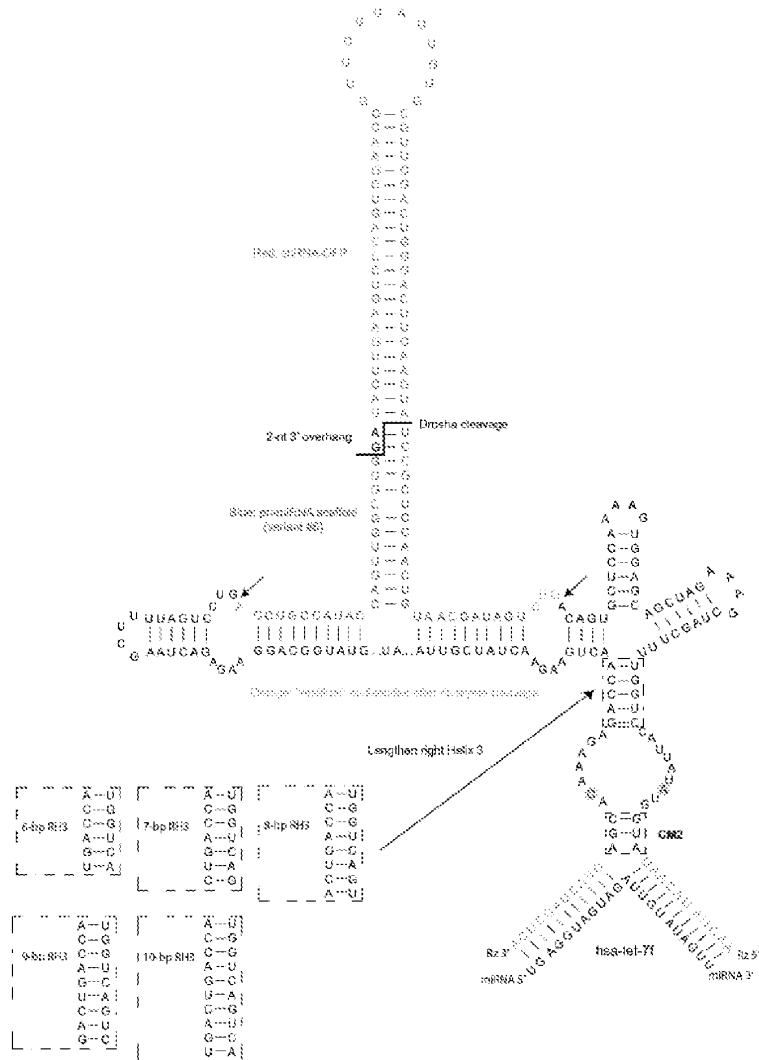


Fig. 16A

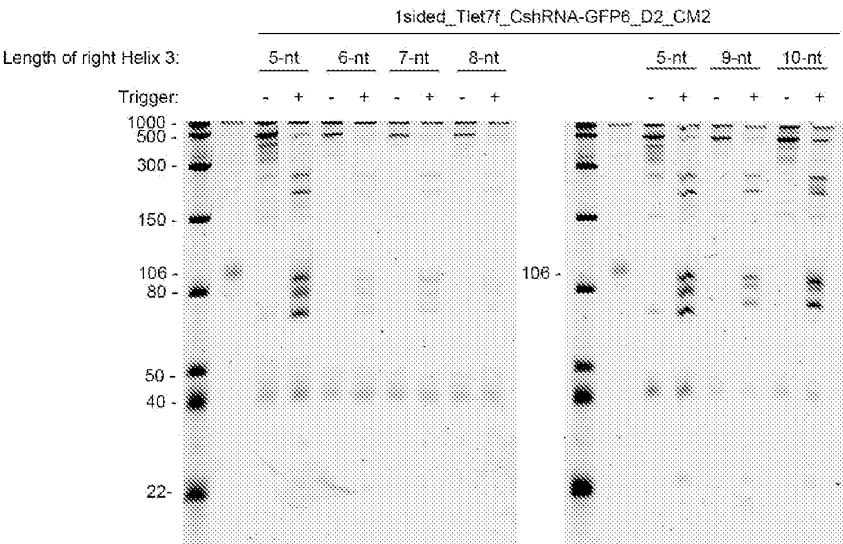


Fig. 16B

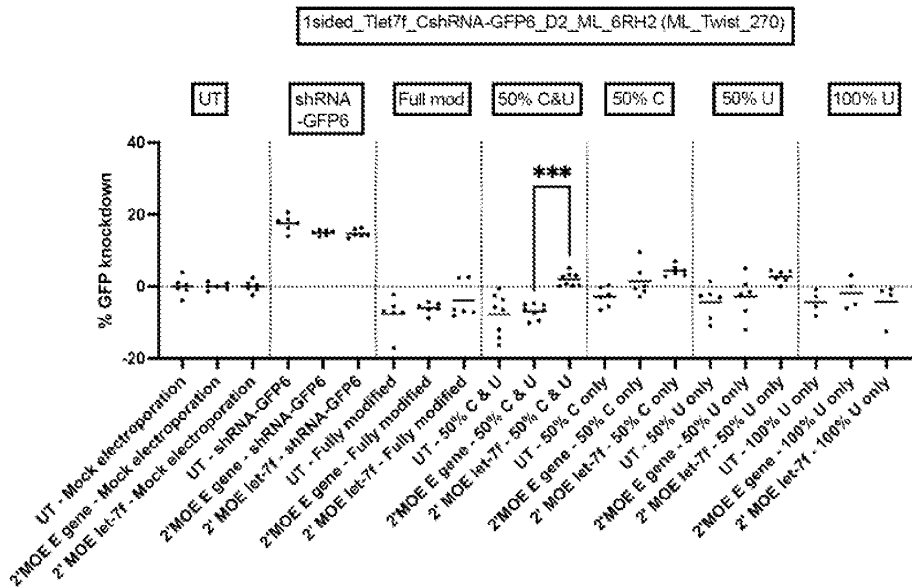


Fig. 17A

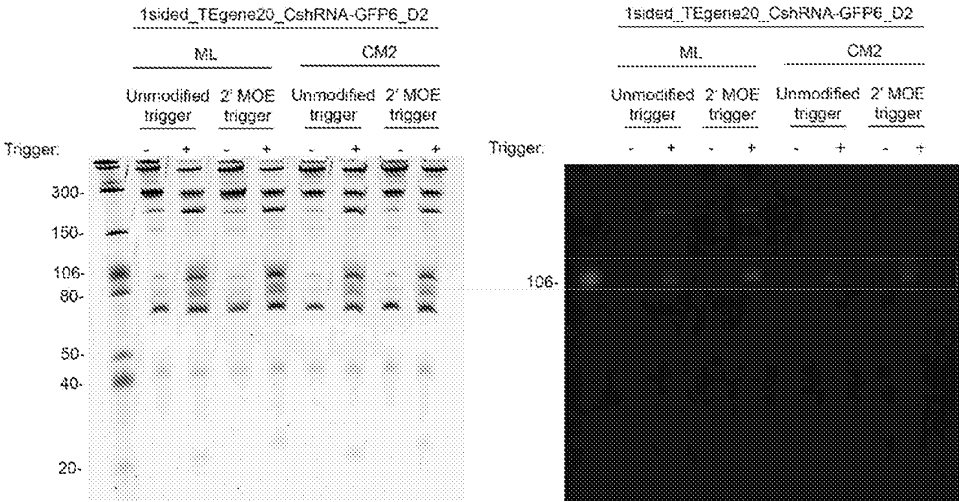


Fig. 17Bi

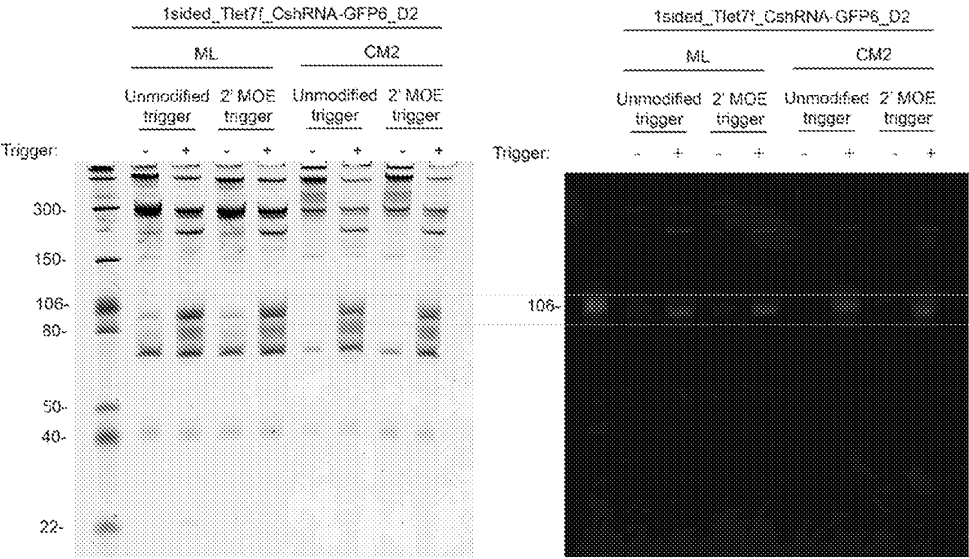


Fig. 17Bii

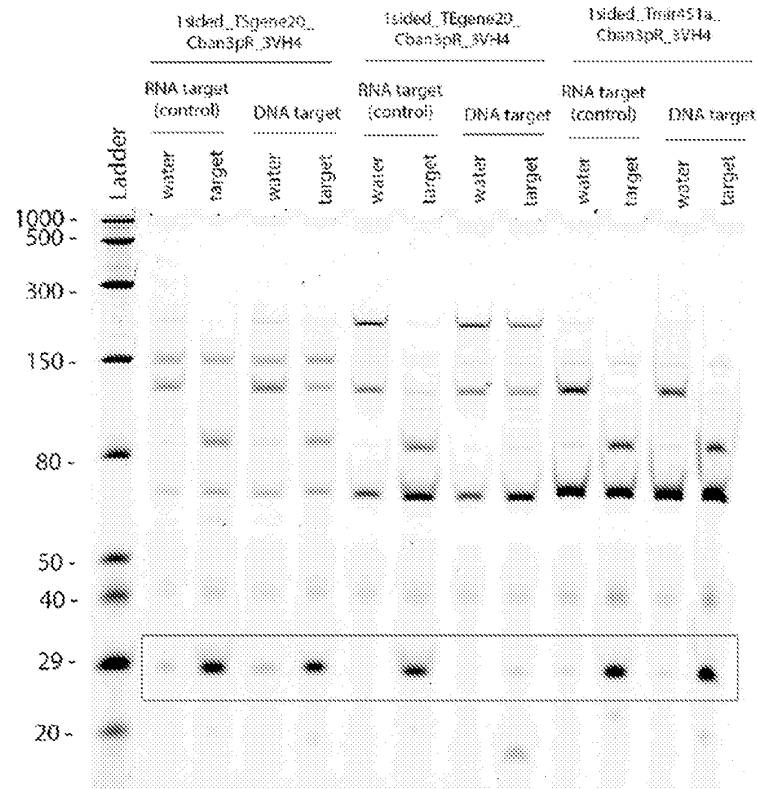


Fig. 17C

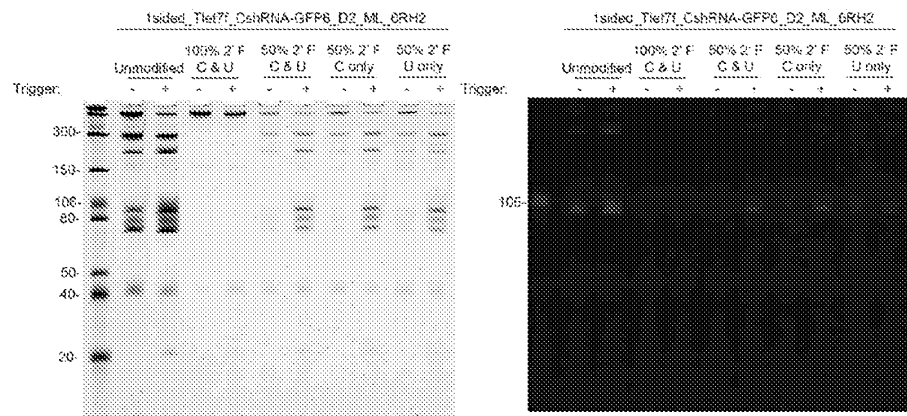


Fig. 17D