

RIKEN clone ID: IRAK049H14

Vector : pCMV-SPORT6

Gene	NTNG1	
Accession No.	BC030220.1	3015 bp
	<i>CDS</i>	1316 bp
		603..1919

● Plasmid DNA purification

Date : 110131 Culture : LB (100 ug/ml Ampicillin) 3 ml →37°C O/N

Date : 110201 Purification : QIAGEN Miniprep kit →dH₂O 100 ul

● Digestion by restriction enzyme / Concentration calibration

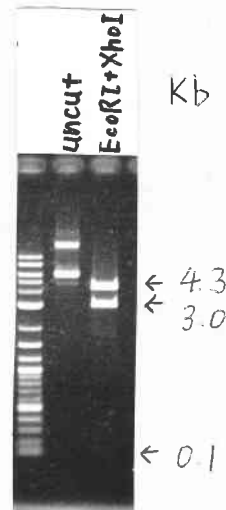
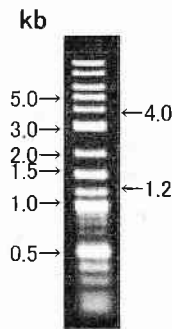
Date : 110201

DNA concentration (O.D.): 83.72 ng/ul

DNA	1 ul
Enzyme (EcoRI+XhoI)	0.5+0.5 ul
Buffer H	1 ul
dH ₂ O	7 ul
Total	10 ul

Electrophoresis: 1% agarose gel, 1 × TAE Buffer

Marker: 2-Log DNA Ladder (NEB#N3200L)



<Expected digestion pattern from BC030220.1>

94, 2964, 4339 bp

● Adjust plasmid DNA solution to 25 ng/ul ~preparation for shipping~

Date : 110203 Shipped : 25 ng/ul, 40 ul

Final concentration: 25 ng/ul

DNA (<u>83.72</u> ng/ul)	<u>79.0</u> ul
10 × TE	<u>26.5</u> ul
dH ₂ O	<u>159.1</u> ul
Total	<u>264.6</u> ul



Project : GNP

System : System 1

Operator : 1.110203.furu

Sample : IRAK049H14_Reverse2.B11_11020310MX

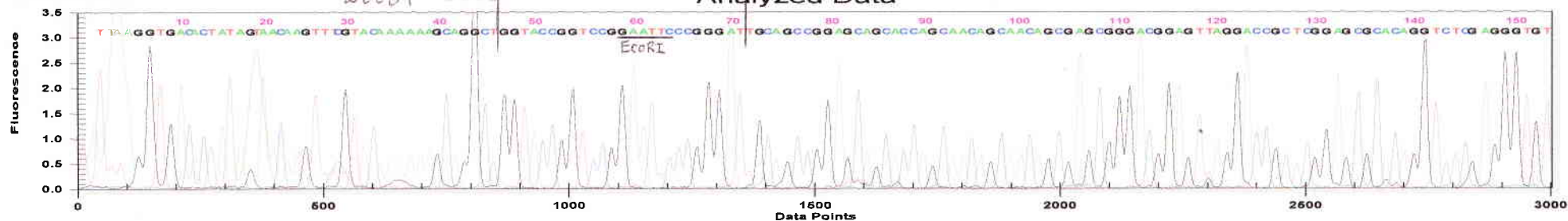
Instrument : System 1 (Ver. 9.0.25)

Result : IRAK049H14_Reverse2.B11_11020310MX

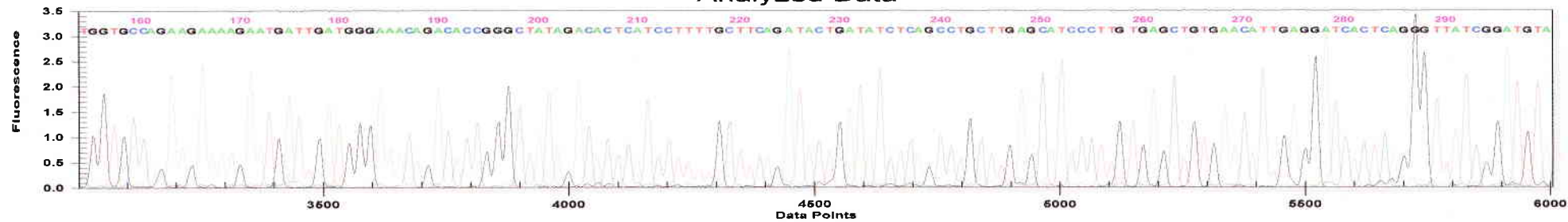
Vector ← → Insert

attB1

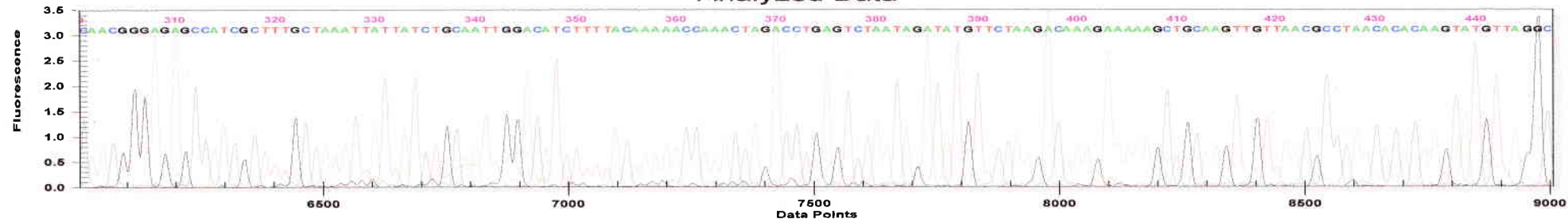
Analyzed Data



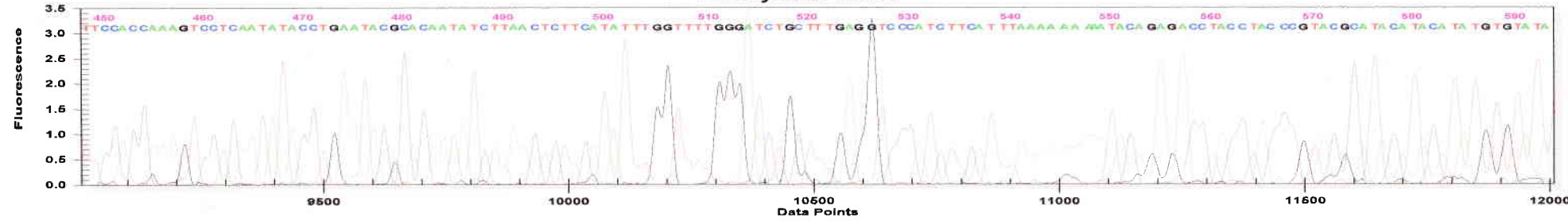
Analyzed Data



Analyzed Data



Analyzed Data

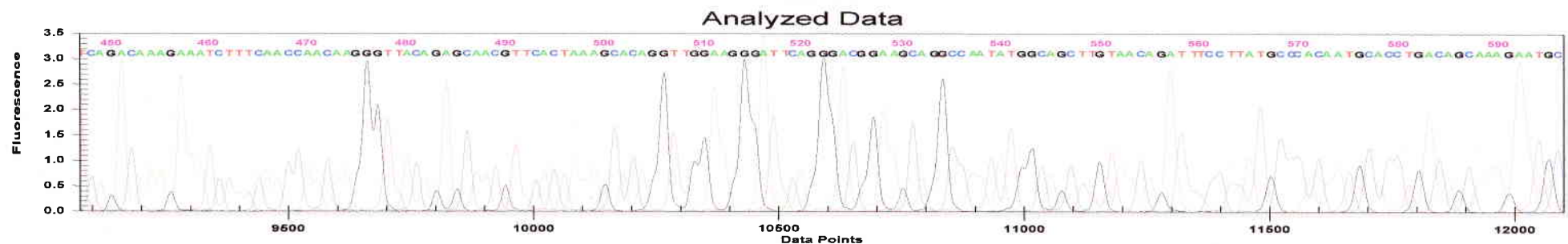
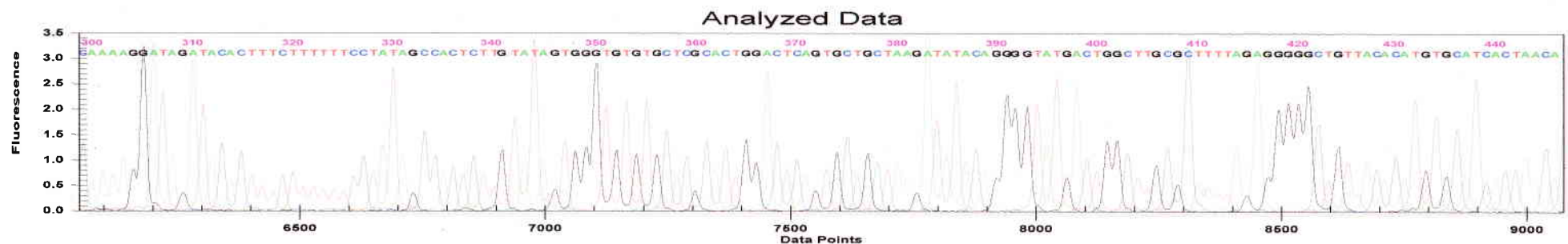
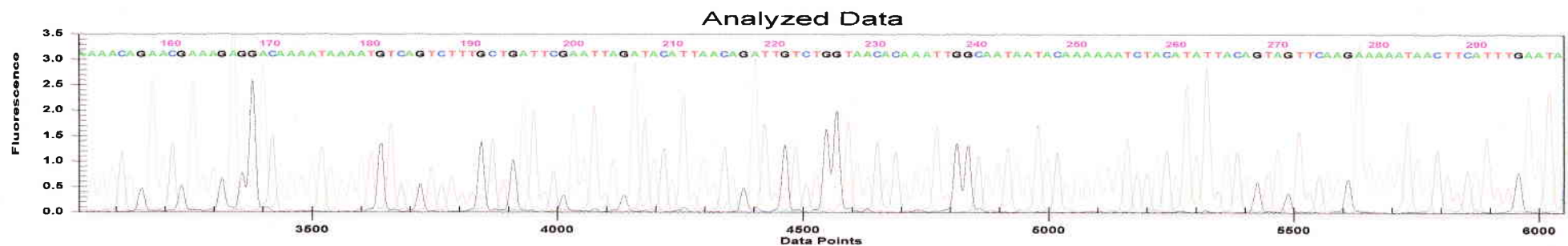
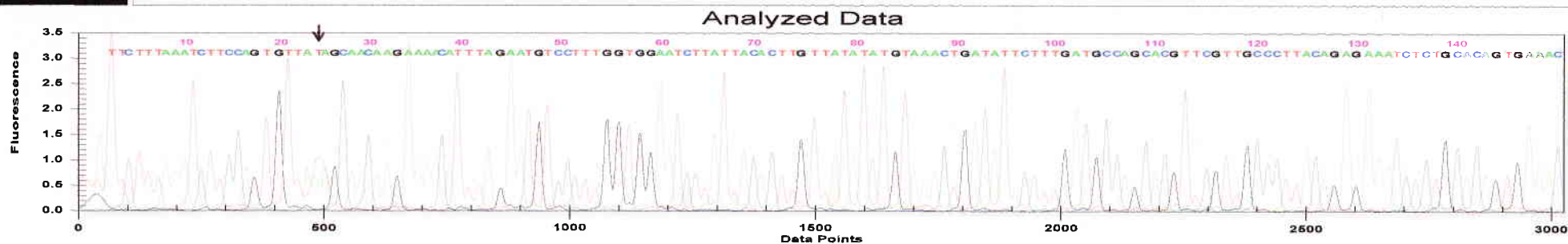




Project : GNP
Sample : IRAK049H14_GNP22.D11_11020310MX
Result : IRAK049H14_GNP22.D11_11020310MX

System : System 1

Operator : 1.110203.furu
Instrument : System 1 (Ver. 9.0.25)



[GENETYX : Homology Data]

Date : 2011.02.03

Query Sequence

File Name :
 Sequence Name : BC030220.1
 Sequence Size : 3015

Target Sequence

File Name : IRAK049H14_Reverse2.B11_11020310MX
 Sequence Name : IRAK049H14_Reverse2.B11_11020310MX
 Sequence Size : 668

Unit Size to Compare = 6

Pick up Location No. = 1

Query Range: 1 - 598

Sbjct Range: 71 - 668

598 bp, INT.Score: 2370, OPT.Score: 2383

Identity: 596 / 598 (99%)

Strand: Plus / Plus

Query	1	TGCAGCCGGA	GCAGCACCAG	CAACAGCAAC	AGCGAGCGGG	ACGGAGTTAG	GACCGCTCGG	60
Sbjct	71	TGCAGCCGGA	GCAGCACCAG	CAACAGCAAC	AGCGAGCGGG	ACGGAGTTAG	GACCGCTCGG	130
Query	61	AGCGCACAGG	TCTCGAGGGT	GTTGGTGCCA	GAAGAAAAGA	ATGATTGATG	GGAAACAGAC	120
Sbjct	131	AGCGCACAGG	TCTCGAGGGT	GTTGGTGCCA	GAAGAAAAGA	ATGATTGATG	GGAAACAGAC	190
Query	121	ACCGGGCTAT	AGACACTCAT	CCTTTTGCTT	CAGATACTGA	TATCTCAGCC	TGCTTGAGCA	180
Sbjct	191	ACCGGGCTAT	AGACACTCAT	CCTTTTGCTT	CAGATACTGA	TATCTCAGCC	TGCTTGAGCA	250
Query	181	TCCCTTGTGA	GCTGTGAACA	TTGAGGATCA	CTCAGGGTTA	TCGGATGTAC	AACGGGAGAG	240
Sbjct	251	TCCCTTGTGA	GCTGTGAACA	TTGAGGATCA	CTCAGGGTTA	TCGGATGTAC	AACGGGAGAG	310
Query	241	CCATCGCTTT	GCTAAATTAT	TATCTGCAAT	TGGACATCTT	TTACAAAAAC	CAAAC TAGAC	300
Sbjct	311	CCATCGCTTT	GCTAAATTAT	TATCTGCAAT	TGGACATCTT	TTACAAAAAC	CAAAC TAGAC	370
Query	301	CTGAGTCTAA	TAGATATGTT	CTAAGACAAA	GAAAAAGCTG	CAAGTTGTTA	ACGCCTAACA	360
Sbjct	371	CTGAGTCTAA	TAGATATGTT	CTAAGACAAA	GAAAAAGCTG	CAAGTTGTTA	ACGCCTAACA	430
Query	361	CACAAGTATG	TTAGGCTTCC	ACCAAAGTCC	TCAATATACC	TGAATACGCA	CAATATCTTA	420
Sbjct	431	CACAAGTATG	TTAGGCTTCC	ACCAAAGTCC	TCAATATACC	TGAATACGCA	CAATATCTTA	490
Query	421	ACTCTTCATA	TTTGGTTTTG	GGATCTGCTT	TGAGGTCCCA	TCTTCATTTA	AAAAAAAATA	480
Sbjct	491	ACTCTTCATA	TTTGGTTTTG	GGATCTGCTT	TGAGGTCCCA	TCTTCATTTA	AAAAAAAATA	550
Query	481	CAGAGACCTA	CCTACCCGTA	CGCATAACATA	CATATGTGTA	TATATATGTA	AACTAGACAA	540
Sbjct	551	CAGAGACCTA	CCTACCCGTA	CGCATAACATA	CATATGTGTA	TATATATGTA	AACTAGACAA	610
Query	541	AGATCGCAGA	TCATAAAGCA	AGCTCTGCTT	TAGTTTCCAA	GAAGATTACA	AAGAATTT	598
Sbjct	611	AGATCGCAGA	TCATAAAGCA	AGCTCTGCTT	TAGTTTCCAA	GAAGATTACA	AAGANTTT	668

[GENETYX : Homology Data]

Date : 2011.02.03

Query Sequence

File Name :
 Sequence Name : BC030220.1
 Sequence Size : 3015

Target Sequence

File Name : IRAK049H14_GNP22.D11_11020310MX
 Sequence Name : IRAK049H14_GNP22.D11_11020310MX (complement)
 Sequence Size : 626

Unit Size to Compare = 6

Pick up Location No. = 1

Query Range: 2289 - 2913

Sbjct Range: 2 - 626

625 bp, INT.Score: 2494, OPT.Score: 2494

Identity: 624 / 625 (99%)

Strand: Plus / Minus

Query	2289	ACTCCGCCCA	GTGTGTGGAC	CAACCAAATA	GCATTCTTTG	CTGTCAGGTG	CATTGTGGGC	2348
Sbjct	2	ACTCCGCCCA	GTGTGTGGAC	CAACCAAATA	GCATTCTTTG	CTGTCAGGTG	CATTGTGGGC	61
Query	2349	ATAAGGAAAT	CTGTTACAAG	CTGCCATATT	GGCCTGCTTC	CGTCCCTGAA	TCCCTTCCAA	2408
Sbjct	62	ATAAGGAAAT	CTGTTACAAG	CTGCCATATT	GGCCTGCTTC	CGTCCCTGAA	TCCCTTCCAA	121
Query	2409	CCTGTGCTTT	AGTGAACGTT	GCTCTGTAAC	CCTTGTIGGT	TGAAAGATTT	CTTTGTCTGA	2468
Sbjct	122	CCTGTGCTTT	AGTGAACGTT	GCTCTGTAAC	CCTTGTIGGT	TGAAAGATTT	CTTTGTCTGA	181
Query	2469	TGTTAGTGAT	GCACATGTGT	AACAGCCCCC	TCTAAAAGCG	CAAGCCAGTC	ATACCCCTGT	2528
Sbjct	182	TGTTAGTGAT	GCACATGTGT	AACAGCCCCC	TCTAAAAGCG	CAAGCCAGTC	ATACCCCTGT	241
Query	2529	ATATCTTAGC	AGCACTGAGT	CCAGTGCAG	CACACACCCA	CTATACAAGA	GTGGCTATAG	2588
Sbjct	242	ATATCTTAGC	AGCACTGAGT	CCAGTGCAG	CACACACCCA	CTATACAAGA	GTGGCTATAG	301
Query	2589	GAAAAAAGAA	AGTGTATCTA	TCCTTTTGTA	TTCAAATGAA	GTTATTTTTC	TTGAACTACT	2648
Sbjct	302	GAAAAAAGAA	AGTGTATCTA	TCCTTTTGTA	TTCAAATGAA	GTTATTTTTC	TTGAACTACT	361
Query	2649	GTAATATGTA	GATTTTTTGT	ATTATTGCCA	ATTTGTGTTA	CCAGACAATC	TGTTAATGTA	2708
Sbjct	362	GTAATATGTA	GATTTTTTGT	ATTATTGCCA	ATTTGTGTTA	CCAGACAATC	TGTTAATGTA	421
Query	2709	TCTAATTCGA	ATCAGCAAAG	ACTGACATTT	TATTTTGTCC	TCTTTCGTTC	TGTTTTGTTT	2768
Sbjct	422	TCTAATTCGA	ATCAGCAAAG	ACTGACATTT	TATTTTGTCC	TCTTTCGTTC	TGTTTTGTTT	481
Query	2769	CACTGTGCAG	AGATTTCTCT	GTAAGGGCAA	CGAACGTGCT	GGCATCAAAG	AATATCAGTT	2828
Sbjct	482	CACTGTGCAG	AGATTTCTCT	GTAAGGGCAA	CGAACGTGCT	GGCATCAAAG	AATATCAGTT	541
Query	2829	TACATATATA	ACAAGTGTA	TAAGATTCCA	CCAAAGGACA	TTCTAAATGT	TTTCTTGTTG	2888
Sbjct	542	TACATATATA	ACAAGTGTA	TAAGATTCCA	CCAAAGGACA	TTCTAAATGT	TTTCTTGTTG	601
Query	2889	CTTTAACACT	GGAAGATTTA	AAGAA	2913			
Sbjct	602	CTATAACACT	GGAAGATTTA	AAGAA	626			