Additional_result_file_2 providing further information to Figure 2b:

Using the Tag-seq_CgtH_4289_RT_FDR_mapped transcripts with greater SBS in cancer than in healthy (Additional_tabular_file_3), a list of 5194 unique Genbank/RefSeq ID was obtained. These ID were converted to Gene ID using the Synergizer tool and produced a list of 2385 unique ID. Sixty eight genes (here below) were common to the census of somatically mutated genes in cancer and the Tag-seq_CgtH_4289_RT_FDR_mapped list.

Index	Gene ID	Description	Alteration of the 17 base *NlaIII* tag by known somatic mutations
1	207	AKT1, v-akt murine thymoma viral oncogene homolog 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
2	602	BCL3 B-cell CLL/lymphoma 3	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
3	604	BCL6 B-cell CLL/lymphoma 6	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
4	833	cars, cysteinyl-tRNA synthetase	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
5	1213	CLTC, clathrin, heavy chain	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
6	1387	CREBBP, CREB binding protein	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
7	1655	DDX5, DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
8	1662	DDX10, DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
9	2033	EP300, E1A binding protein p300	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
10	2060	EPS15, epidermal growth factor receptor pathway substrate 15	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
11	2120	ETV6, ets variant 6	Could not locate known somatic mutations on transcript
12	2130	EWSR1, Ewing sarcoma breakpoint region 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
13	2181	ACSL3, acyl-CoA synthetase long-chain family member 3	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
14	2313	FLI1, Friend leukemia virus integration 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
15	2956	MSH6, mutS homolog 6	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
16	3181	HNRNPA2B1 heterogeneous nuclear ribonucleoprotein A2/B1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
17	3265	HRAS, v-Ha-ras Harvey rat sarcoma viral oncogene homolog	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
18	3718	JAK3, Janus kinase 3	Could not locate known somatic mutations on transcript
19	4089	SMAD4, SMAD family	Known cancer-related somatic mutations do not alter the

		member 4	17 base *NlaIII* tag
20	4299	AFF1, AF4/FMR2 family, member 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
21	4302	MLLT6, myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6	Could not locate known somatic mutations on transcript
22	4303	FOXO4, forkhead box O4	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
23	4615	MYD88, myeloid differentiation primary response gene (88)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
24	4780	NFE2L2, nuclear factor (erythroid-derived 2)-like 2	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
25	4841	NONO, non-POU domain containing, octamer-binding	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
26	4851	NOTCH1, notch 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
27	4853	NOTCH2, notch 2	Could not locate known somatic mutations on transcript
28	4928	NUP98, nucleoporin 98kDa	Could not locate known somatic mutations on transcript
29	5049	PAFAH1B2, platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
30	5518	PPP2R1A, protein phosphatase 2, regulatory subunit A, alpha	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
31	5546	PRCC, papillary renal cell carcinoma (translocation-associated)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
32	5573	PRKAR1A, protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
33	5728	PTEN, phosphatase and tensin homolog	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
34	5894	RAF1, v-raf-1 murine leukemia viral oncogene homolog 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
35	5925	RB1, retinoblastoma 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
36	6146	RPL22, ribosomal protein L22	COSMIC does not report any somatic mutations in this gene
37	6416	MAP2K4, mitogen-activated protein kinase kinase 4	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
38	6418	SET, SET nuclear oncogene	COSMIC does not report any somatic mutations in this gene
39	6428	SRSF3,	Known cancer-related somatic mutations do not alter the

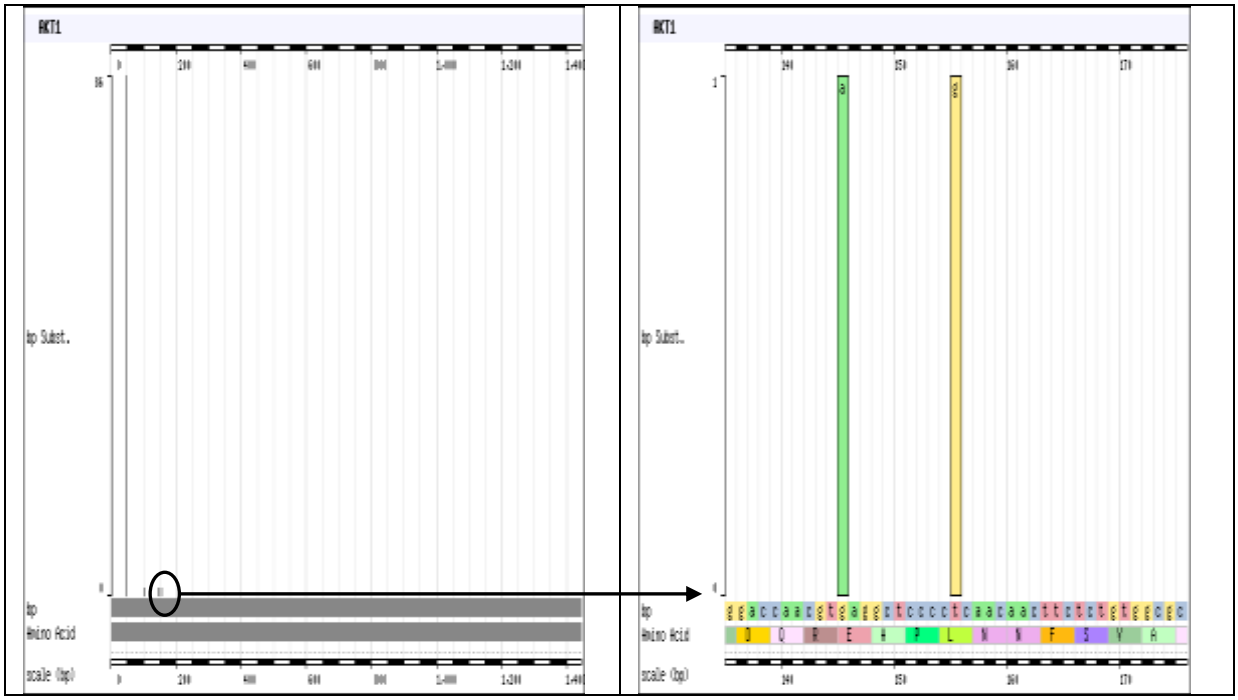
		serine/arginine-rich splicing factor 3	17 base *NlaIII* tag
40	6597	SMARCA4, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
41	6794	STK11, serine/threonine kinase 11	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
42	6938	TCF12, transcription factor 12	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
43	7175	TPR, translocated promoter region (to activated MET oncogene)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
44	7403	KDM6A, lysine (K)-specific demethylase 6A	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
45	7514	XPO1, exportin 1 (CRM1 homolog, yeast)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
46	7750	ZMYM2, zinc finger, MYM-type 2	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
47	8028	MLLT10, myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
48	8030	CCDC6, coiled-coil domain containing 6	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
49	8242	KDM5C, lysine (K)-specific demethylase 5C	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
50	9709	HERPUD1, homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	COSMIC does not report any somatic mutations in this gene
51	9968	MED12, mediator complex subunit 12	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
52	10006	ABI1, abl-interactor 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
53	10142	AKAP9, A kinase (PRKA) anchor protein (yotiao) 9	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
54	10342	TFG, TRK-fused gene	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
55	10397	NDRG1, N-myc downstream regulated 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
56	10892	MALT1, mucosa associated lymphoid tissue lymphoma translocation gene 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
57	10962	MLLT11, myeloid/lymphoid or	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag

		mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11	
58	10978	CLP1, cleavage and polyadenylation factor I subunit, homolog (S. cerevisiae)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
59	23365	ARHGEF12, Rho guanine nucleotide exchange factor (GEF) 12	Could not locate known somatic mutations on transcript
60	23512	SUZ12, suppressor of zeste 12 homolog (Drosophila)	COSMIC does not report any somatic mutations in this gene
61	26039	SS18L1, synovial sarcoma translocation gene on chromosome 18-like 1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
62	27086	FOXP1, forkhead box P1	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
63	51517	NCKIPSD, NCK interacting protein with SH3 domain	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
64	57120	GOPC, golgi-associated PDZ and coiled-coil motif containing	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
65	79145	CHCHD7, coiled-coil-helix-coiled-coil-helix domain containing 7	Could not locate known somatic mutations on transcript
66	81608	FIP1L1, FIP1 like 1 (S. cerevisiae)	Could not locate known somatic mutations on transcript
67	84441	MAML2, mastermind-like 2 (Drosophila)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag
68	116028	RMI2, RecQ mediated genome instability 2, homolog (S. cerevisiae)	Known cancer-related somatic mutations do not alter the 17 base *NlaIII* tag

Legend:

Red nucleotide = cancer related somatically mutated base
Green nucleotide = 17 base *NlaIII* tag
Blue nucleotide = *NlaIII* “CATG” recognition site
Underlined nucleotides = Somatic mutation neighbor bases displayed in the COSMIC snapshot

1) Entrez Gene ID 207 = AKT1, v-akt murine thymoma viral oncogene homolog 1 = BC000479



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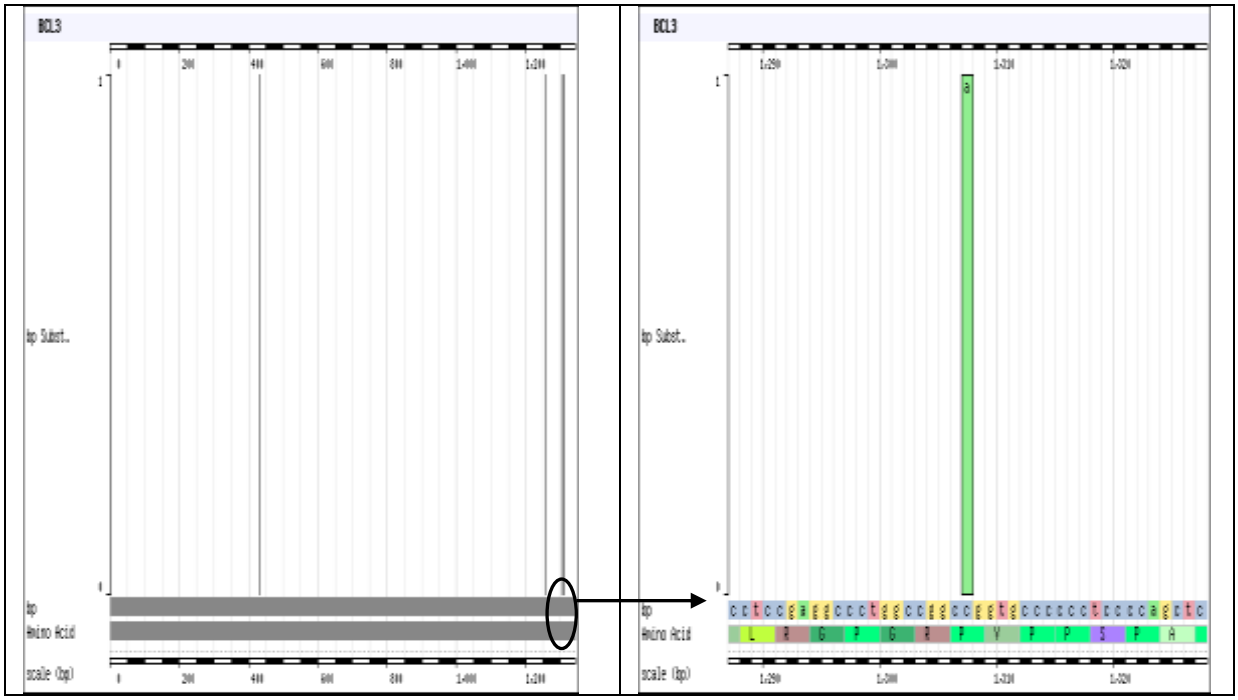
2) Entrez Gene ID 602 = BCL3 B-cell CLL/lymphoma 3 = BC064993



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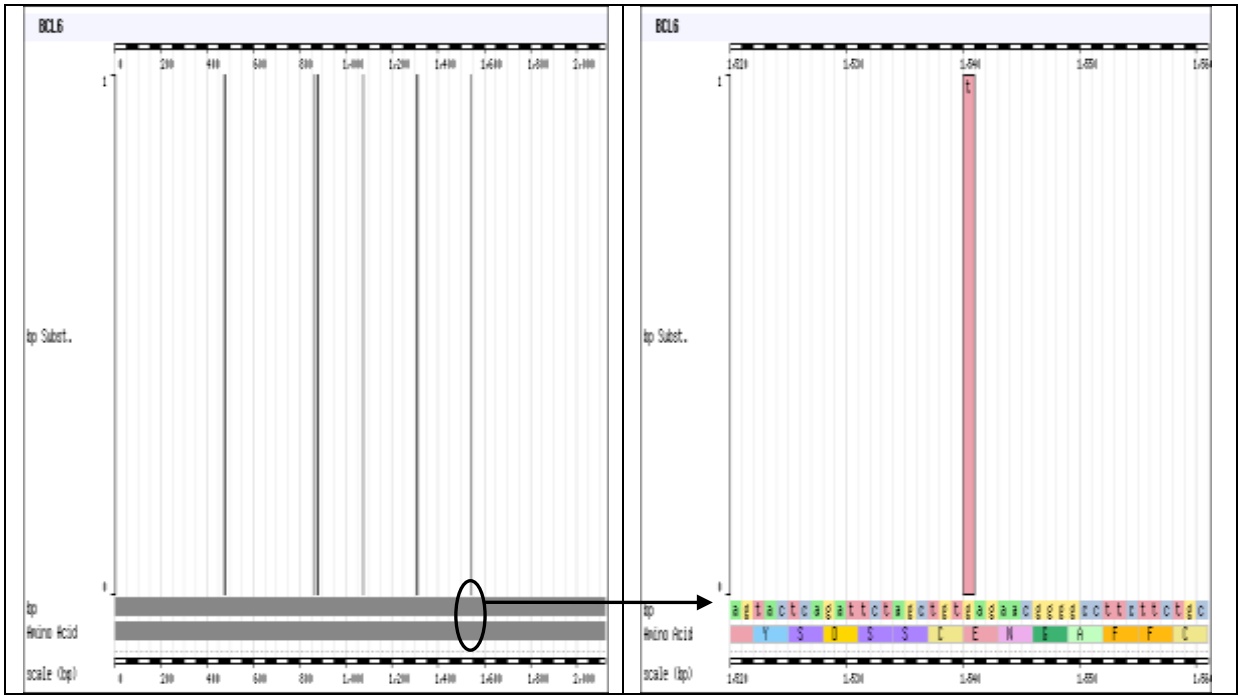
3) Entrez Gene ID 604 = BCL6 B-cell CLL/lymphoma 6 = BC142705



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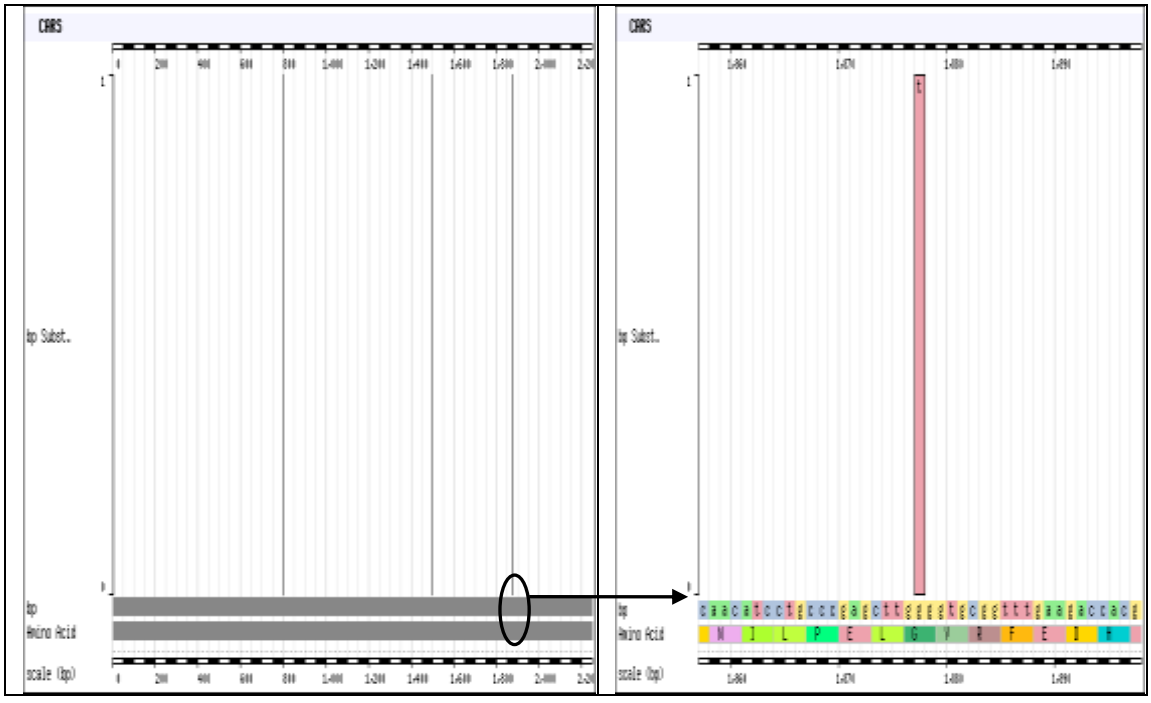
4) Entrez Gene ID 833 = cars, cysteinyl-tRNA synthetase = BX647906 or BC002880



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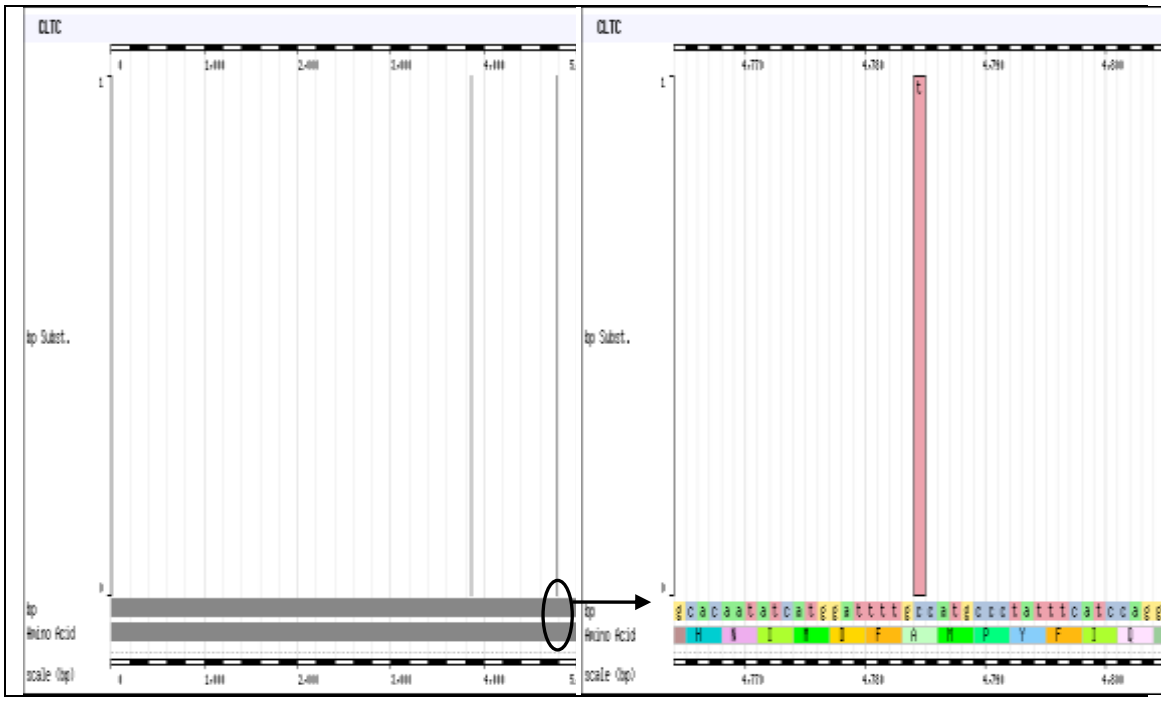
5) Entrez Gene ID 1213 = CLTC, clathrin, heavy chain = BC015854



>gi|16198393|gb|BC015854.1| Homo sapiens clathrin, heavy chain (Hc), mRNA (cDNA clone IMAGE:4663039), with apparent retained intron

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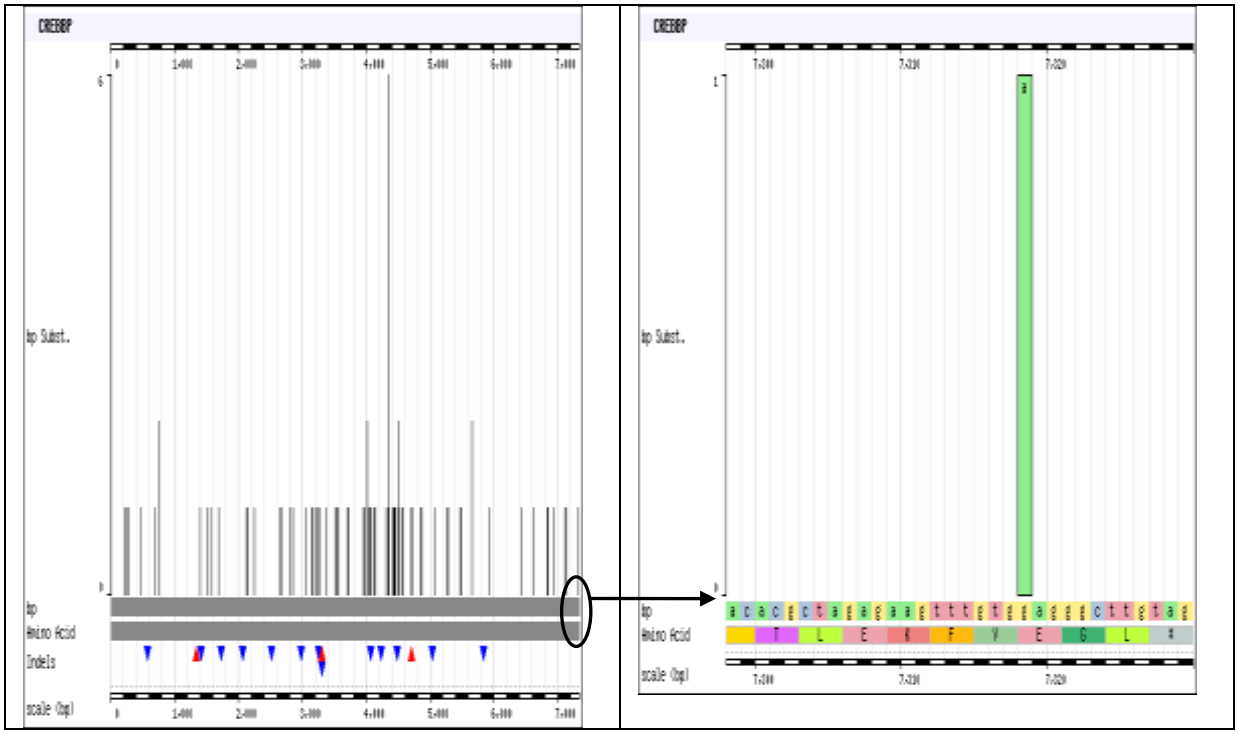
6) Entrez Gene ID 1387 = CREBBP, CREB binding protein = U47741



>gi|2443858|gb|U47741.1|HSU47741 Human CREB-binding protein (CBP) mRNA, complete cds

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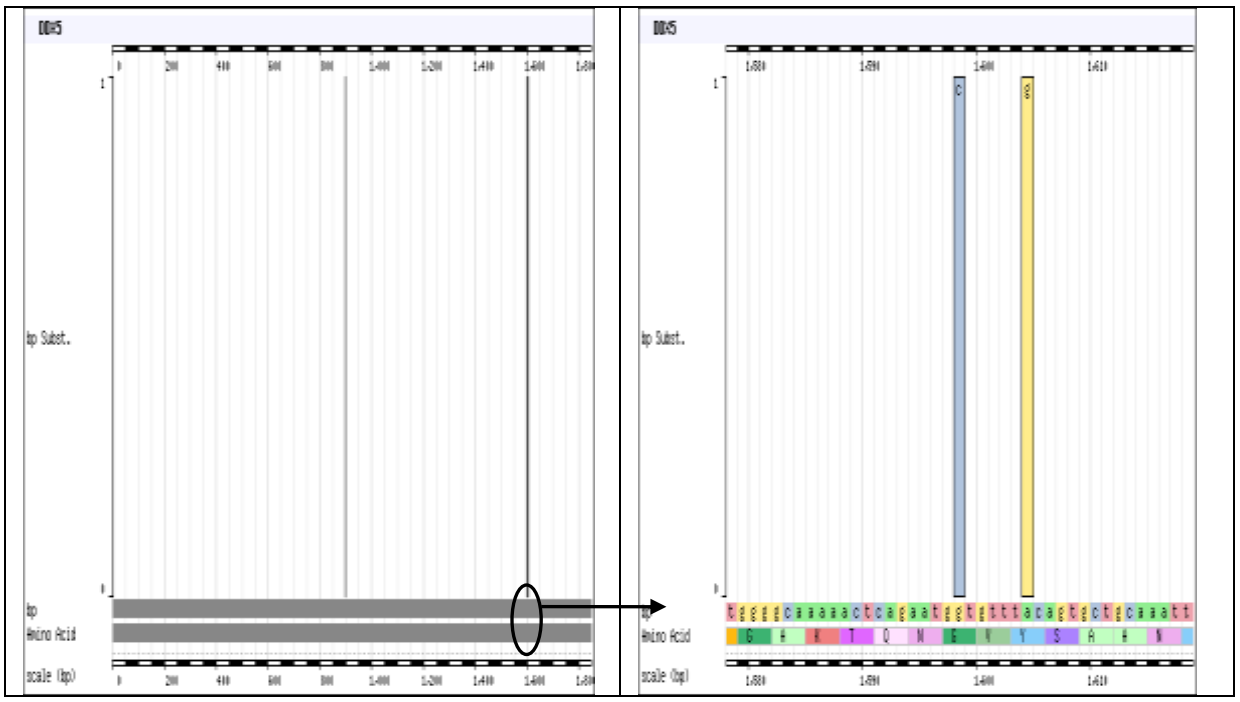
7) Entrez Gene ID 1655 = DDX5,DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 = BC016027



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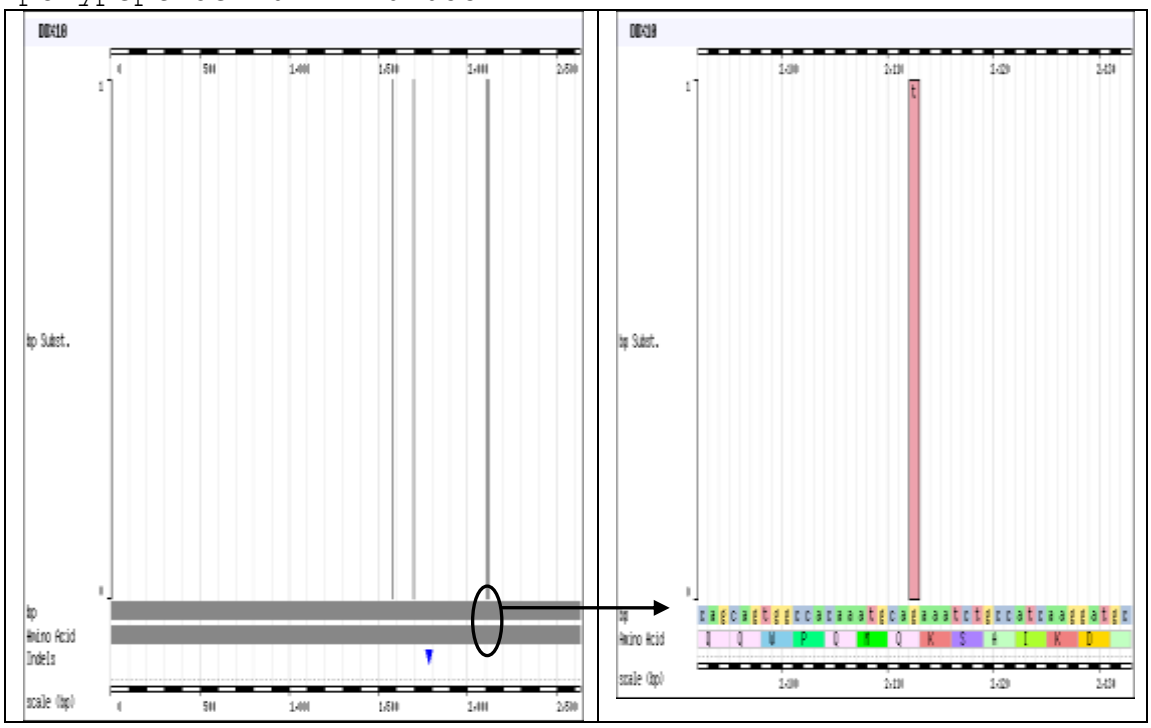
8) Entrez Gene ID 1662 = DDX10, DEAD (Asp-Glu-Ala-Asp) box polypeptide 10 = AB040537



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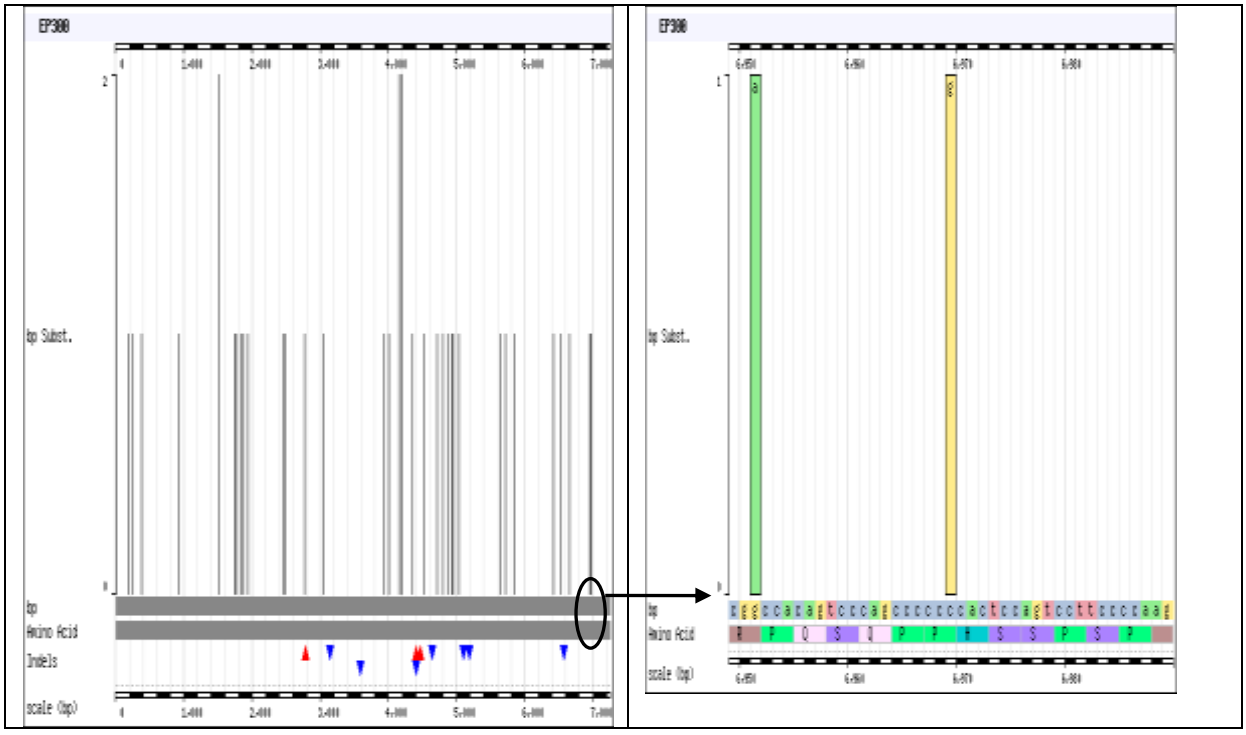
9) Entrez Gene ID 2033 = EP300, E1A binding protein p300 = U01877



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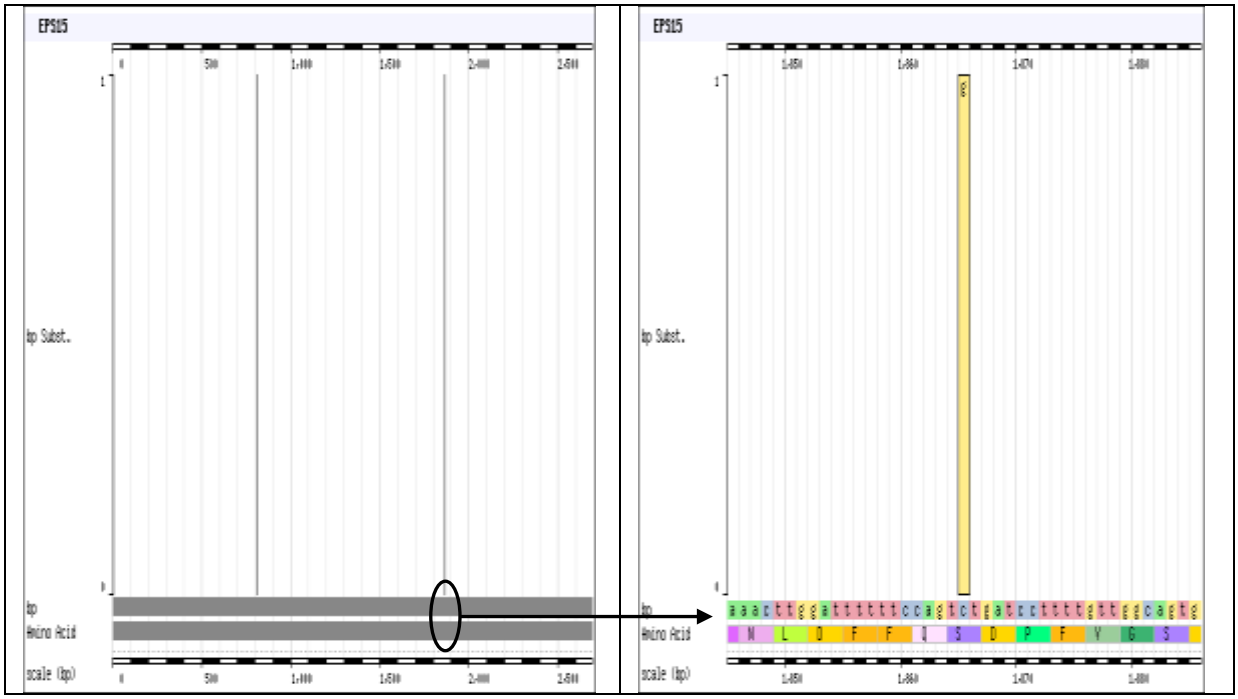
10) Entrez Gene ID 2060 = EPS15, epidermal growth factor receptor pathway substrate 15 = BC054006



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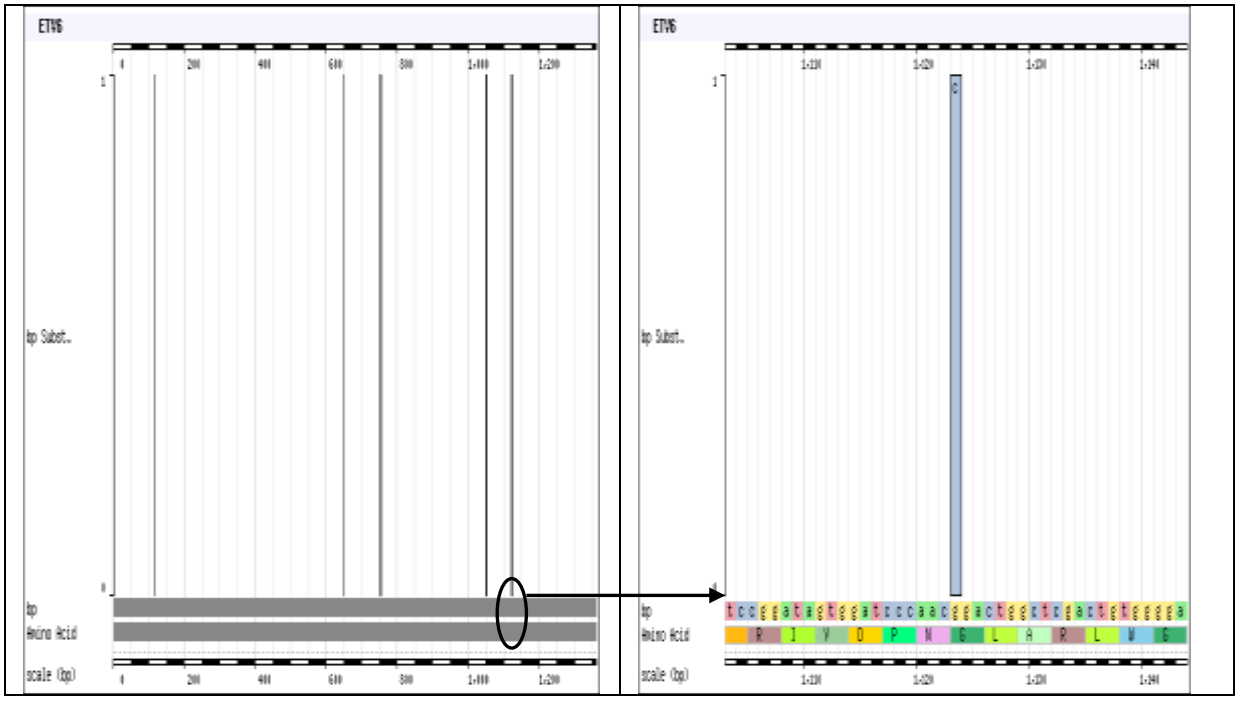
11) Entrez Gene ID 2120 = ETV6, ets variant 6 = BC020284



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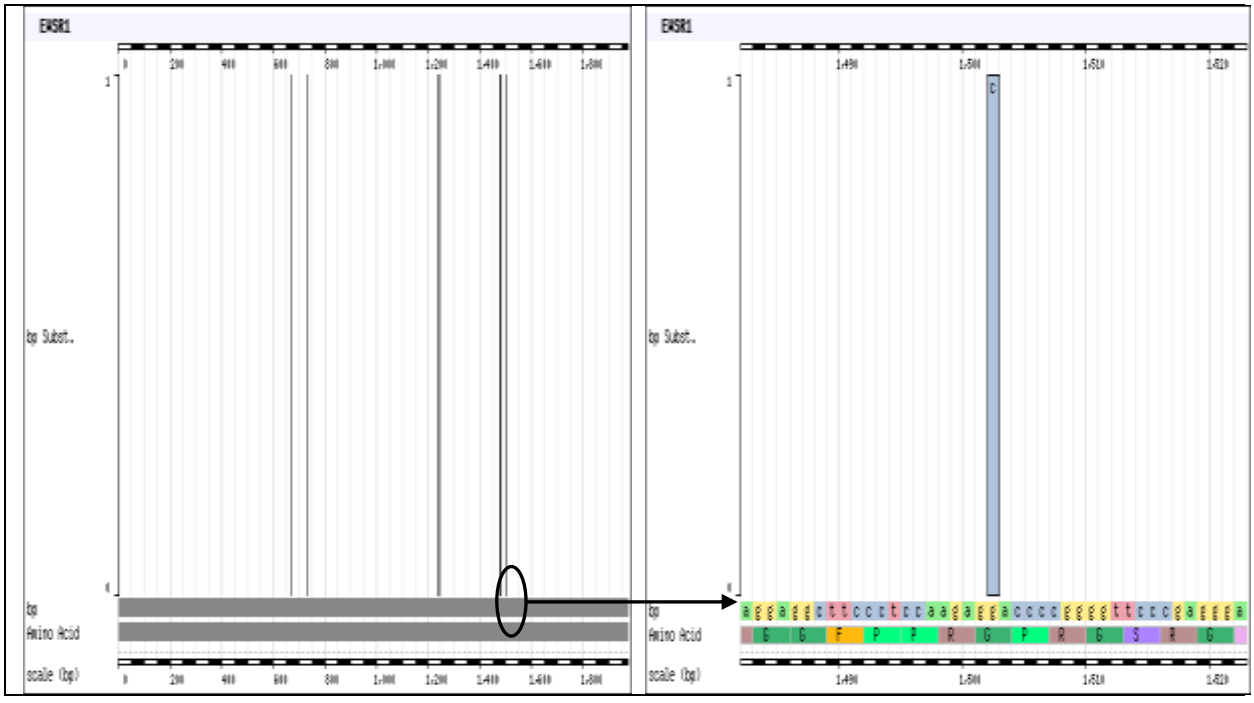
12) Entrez Gene ID 2130 = EWSR1,Ewing sarcoma breakpoint region 1 = BC011048



>gi|15029674|gb|BC011048.1| Homo sapiens Ewing sarcoma breakpoint region 1, mRNA (cDNA clone MGC:16900 IMAGE:4340116), complete cds
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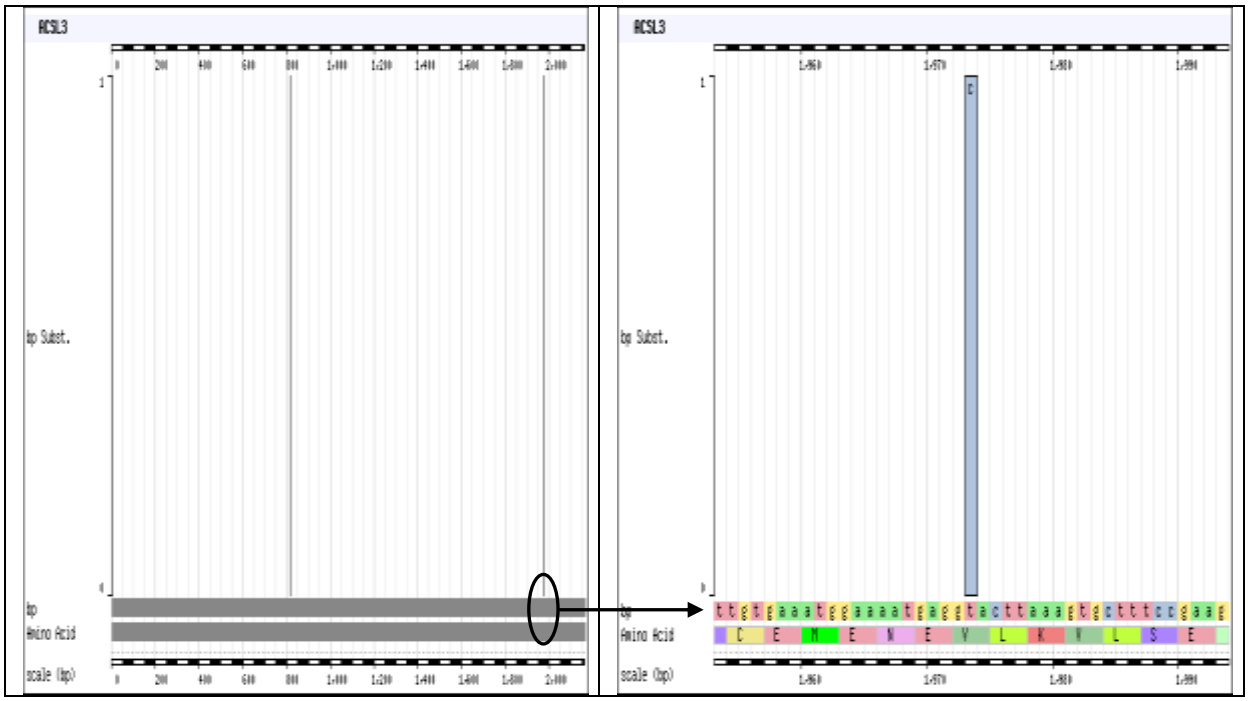
13) Entrez Gene ID 2181 = ACSL3, acyl-CoA synthetase long-chain family member 3 = D89053



>gi|4165017|dbj|D89053.1| Homo sapiens mRNA for Acyl-CoA synthetase 3, complete cds

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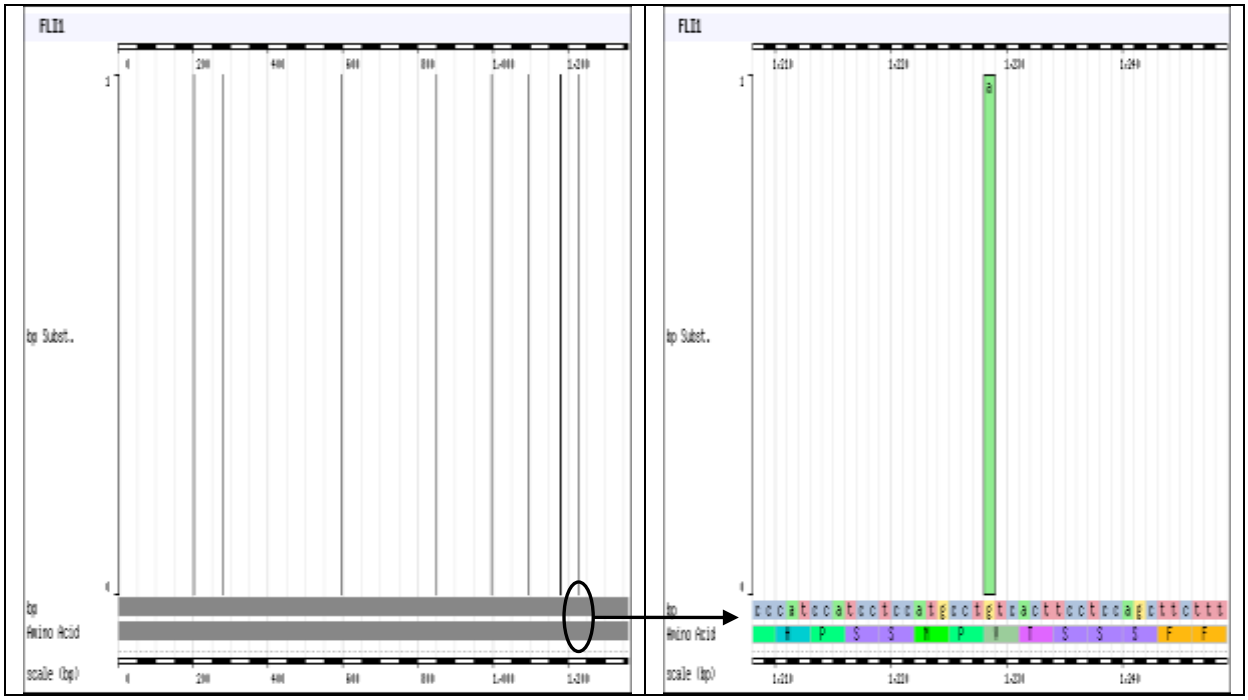
14) Entrez Gene ID 2313 = FLI1, Friend leukemia virus integration 1 = M98833



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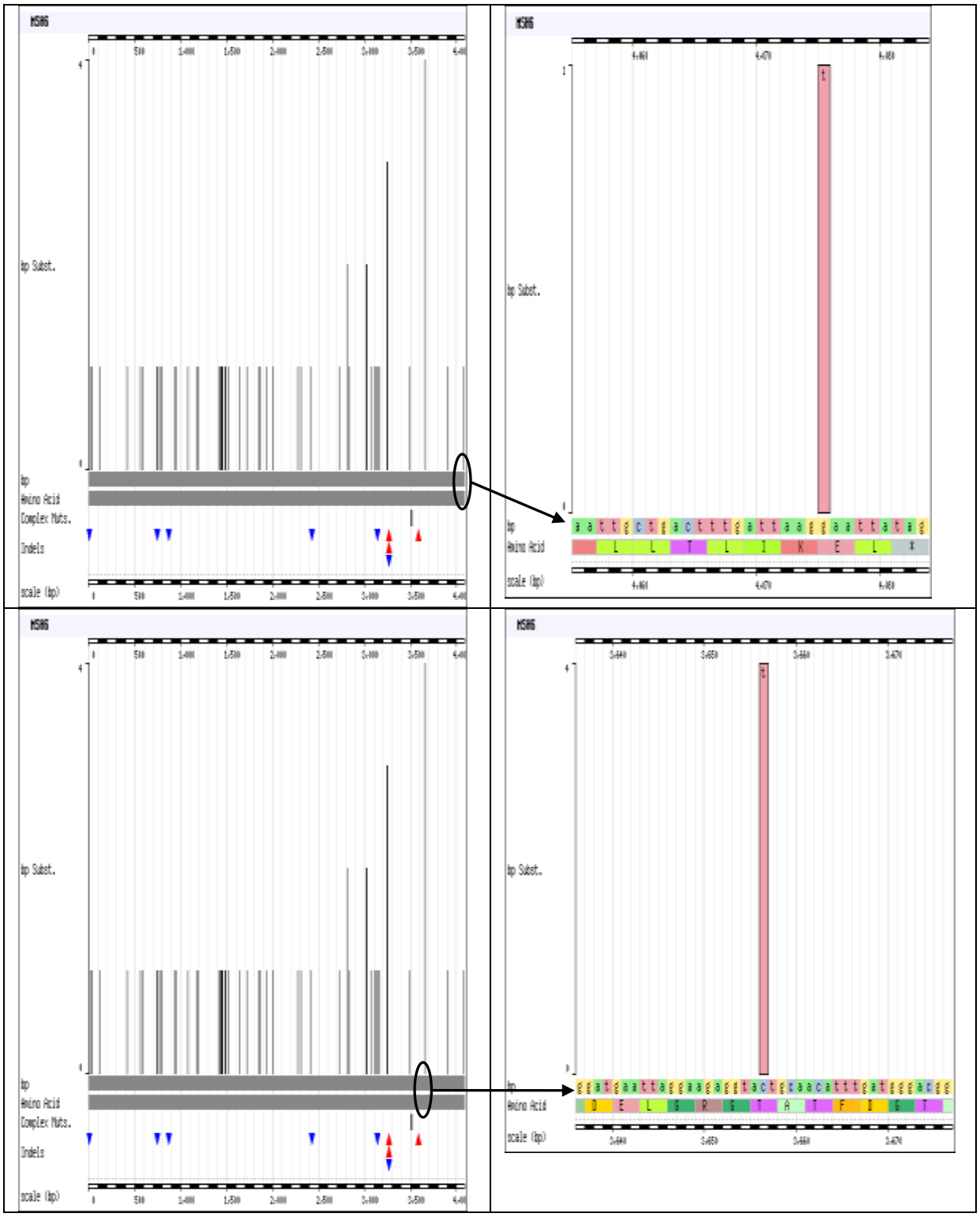
15) Entrez Gene ID 2956 = MSH6, mutS homolog 6 = BC004246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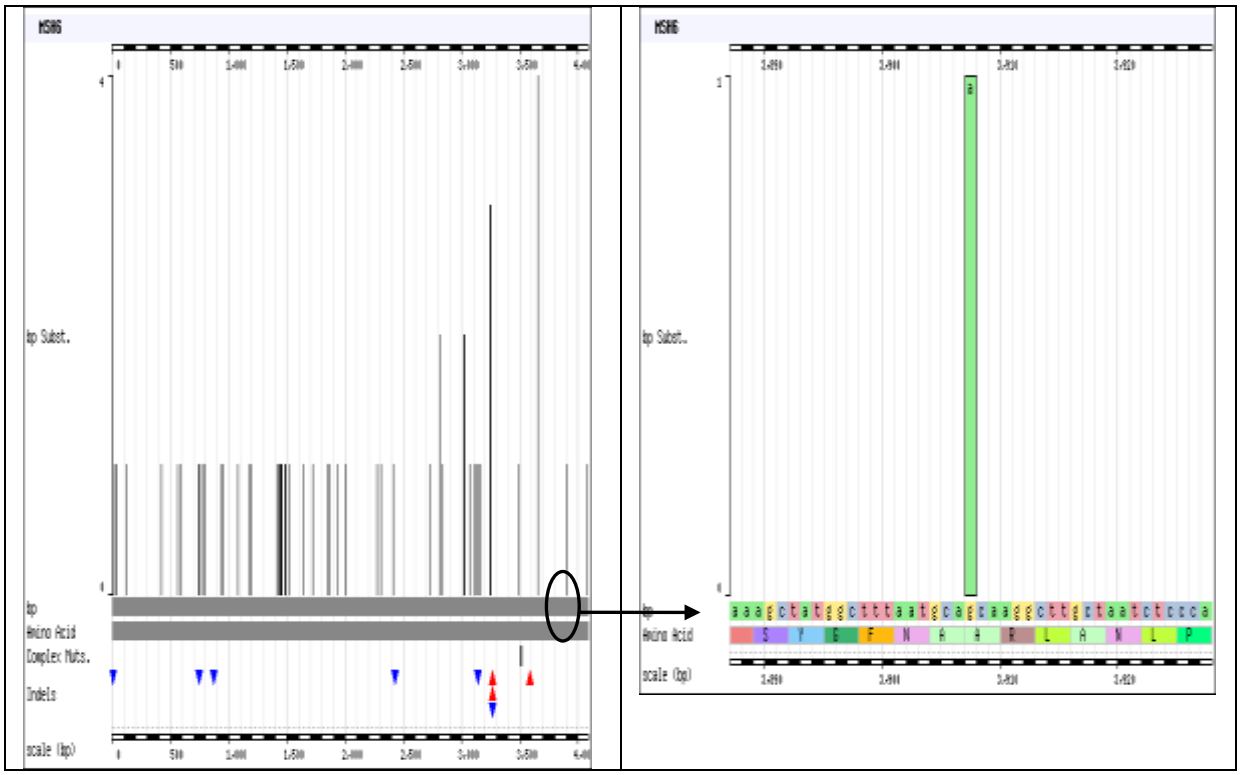

>gi|13279007|gb|BC004246.1| Homo sapiens mutS homolog 6 (E. coli), mRNA (cDNA clone MGC:10498 IMAGE:3629489), complete cds

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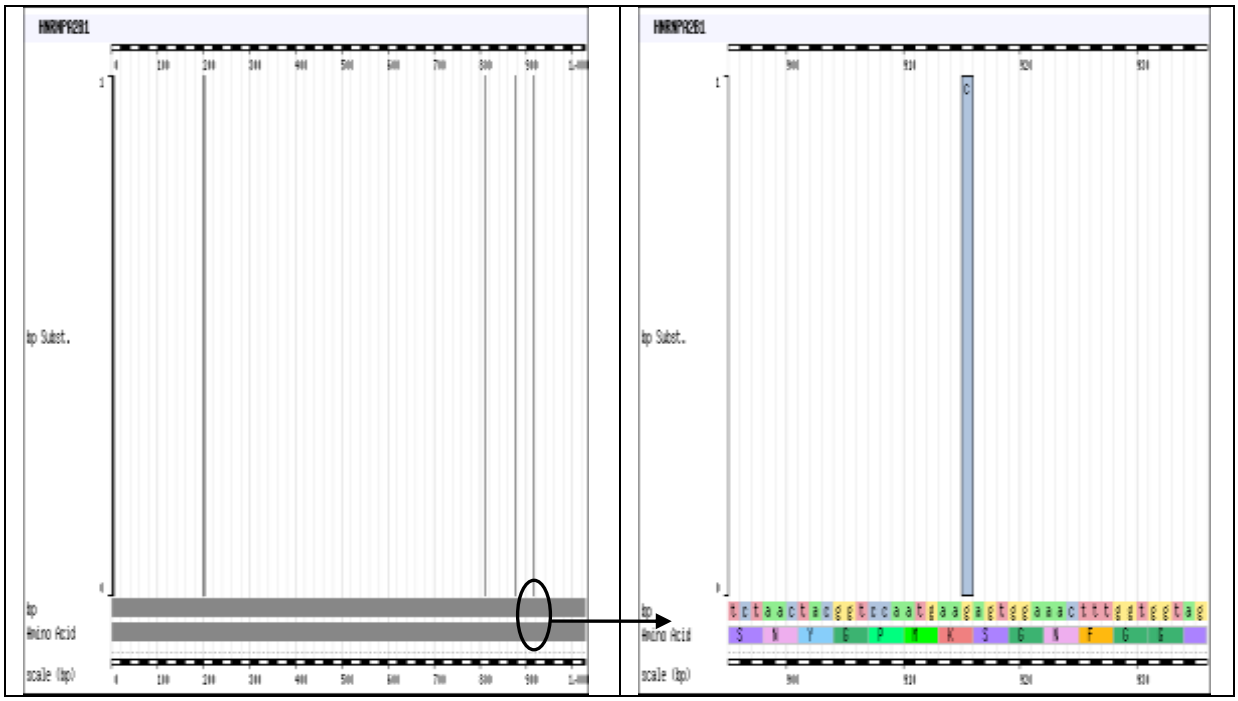
16) Entrez Gene ID 3181 = HNRNPA2B1 heterogeneous nuclear ribonucleoprotein A2/B1 = BC000506



>gi|33875522|gb|BC000506.2| Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1, mRNA (cDNA clone MGC:8493 IMAGE:2822109), complete cds

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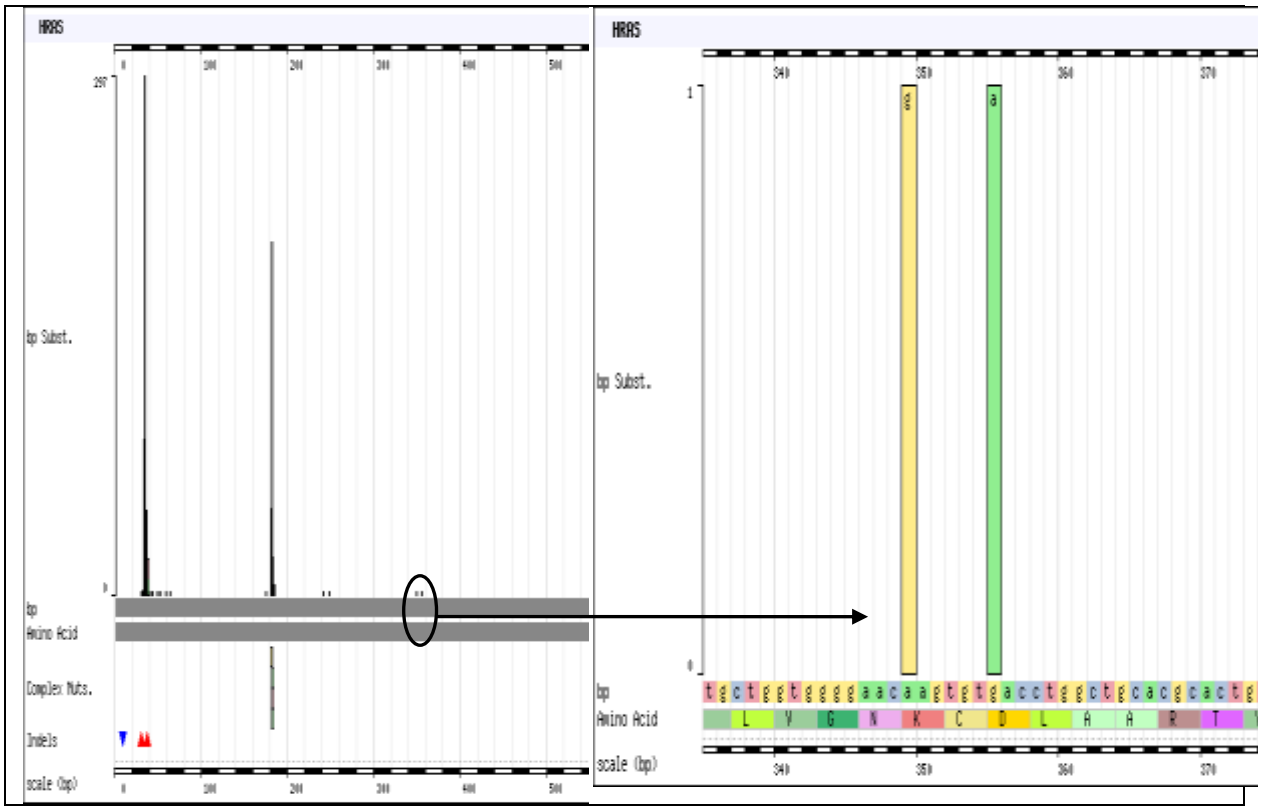
17) Entrez Gene ID 3265 = HRAS, v-Ha-ras Harvey rat sarcoma viral oncogene homolog = BC006499



>gi|33873529|gb|BC006499.2| Homo sapiens v-Ha-ras Harvey rat sarcoma viral oncogene homolog, mRNA (cDNA clone MGC:2359 IMAGE:2819996), complete cds

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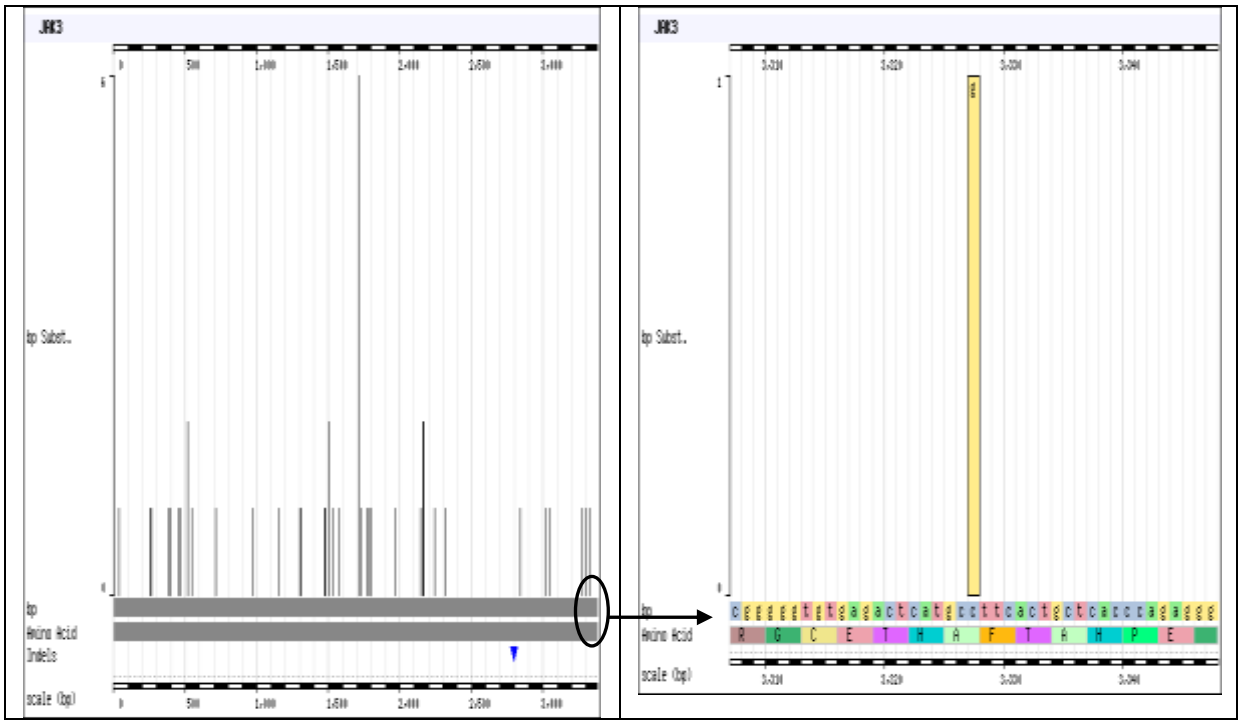
18) Entrez Gene ID 3718 = JAK3, Janus kinase 3 = BC028068



>gi|20380124|gb|BC028068.1| Homo sapiens Janus kinase 3 (a protein tyrosine kinase, leukocyte), mRNA (cDNA clone MGC:39993 IMAGE:5212575), complete cds

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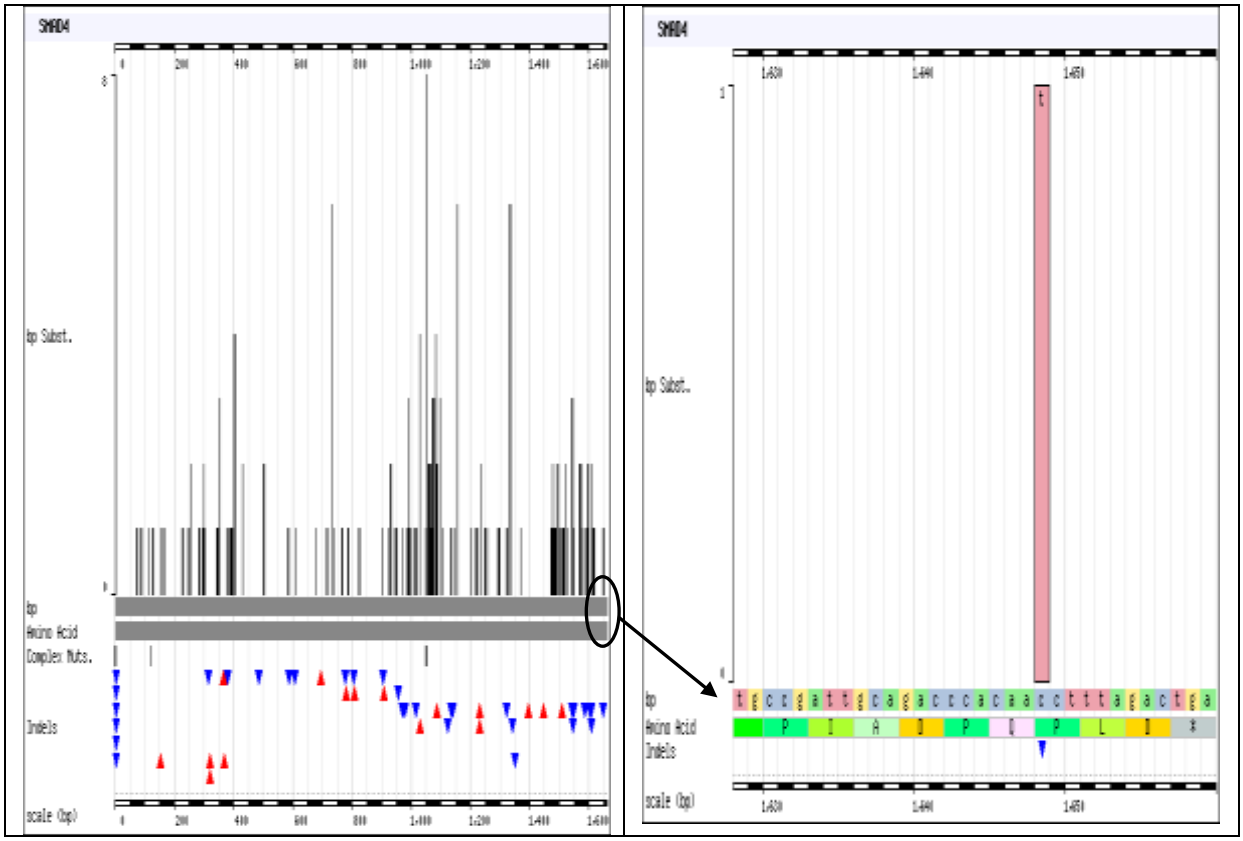
19) Entrez Gene ID 4089 = SMAD4, SMAD family member 4 = BC002379



>gi|33876626|gb|BC002379.2| Homo sapiens SMAD family member 4, mRNA (cDNA clone MGC:8602 IMAGE:2961238), complete cds
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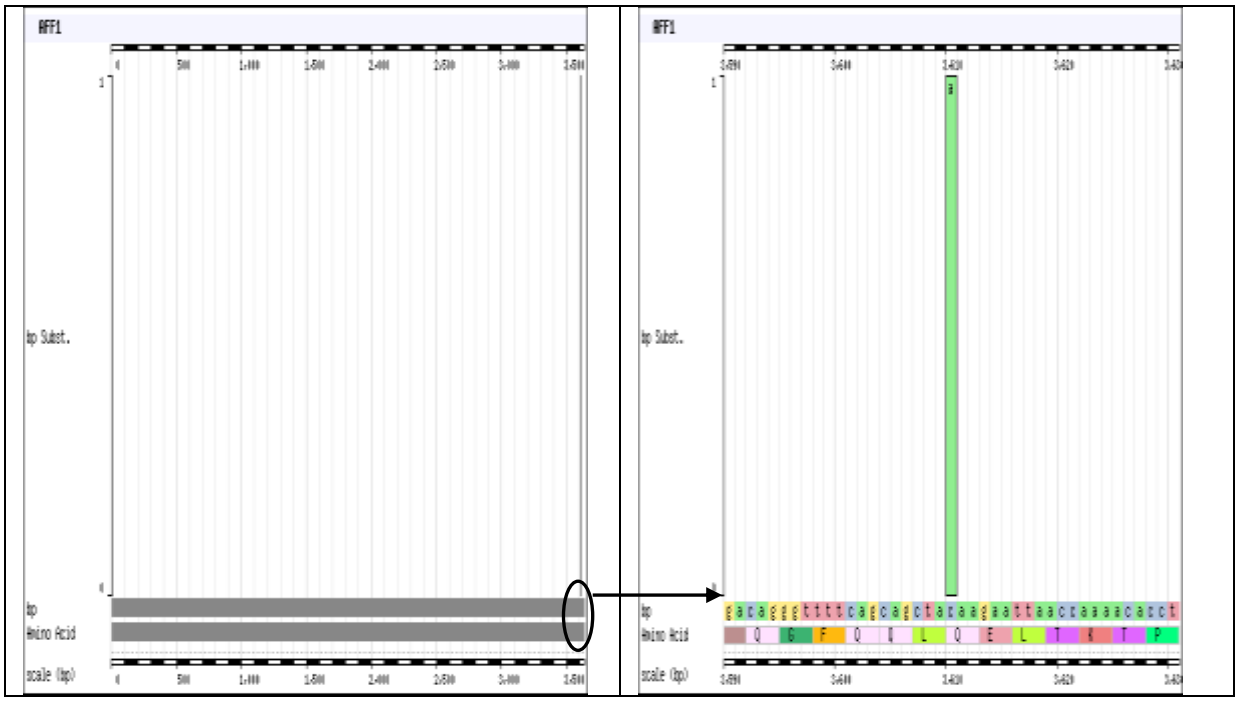
20) Entrez Gene ID 4299 = AFF1, AF4/FMR2 family, member 1 = L13773



>gi|306446|gb|L13773.1|HUMAF4Y Human AF-4 mRNA, complete cds

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AATGGGAAAAGTATCTAATATTTTGTAACAAAAAGACCTTCATATTATCTGTTTTGACCAAAATATGTAG
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CACAGATCTTTTGTTCTCTGTAATGAGGATTAATTGCTGTTTAAACAAAAATGTAATTGTTCATCTTTAA
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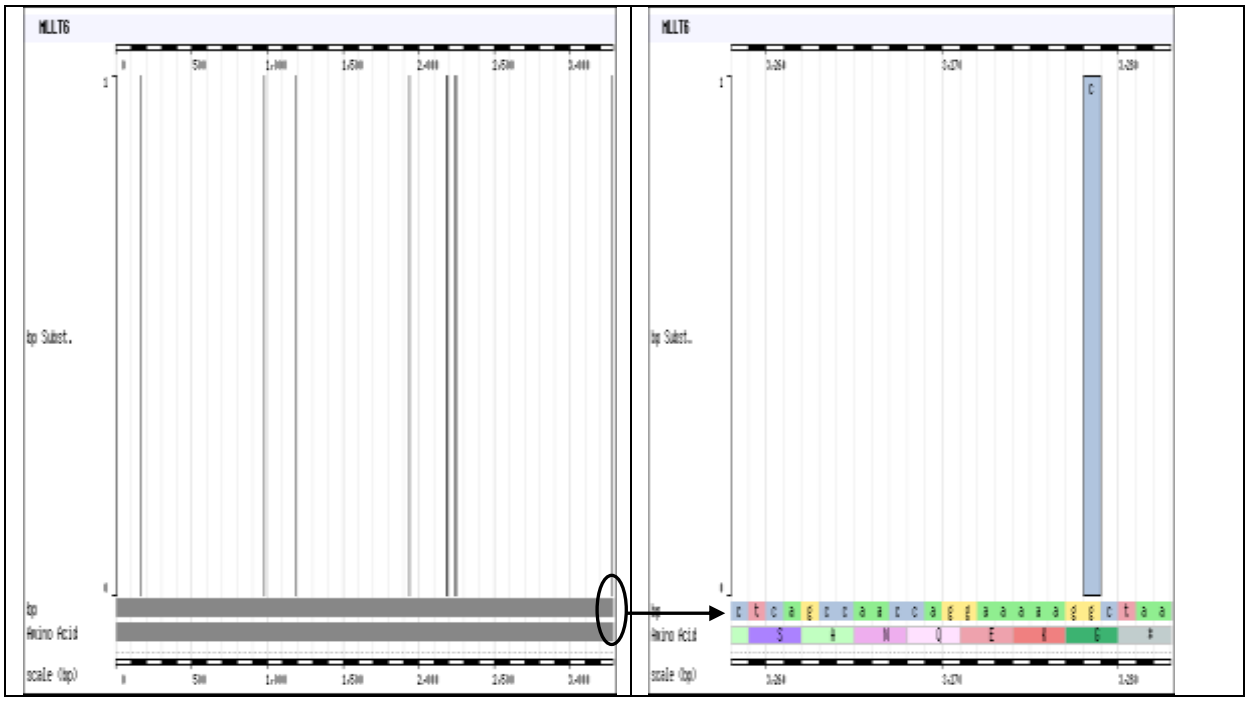
21) Entrez Gene ID 4302 = MLLT6, myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6 = AL832481



>gi|21733049|emb|AL832481.1| Homo sapiens mRNA; cDNA DKFZp686J1719 (from clone DKFZp686J1719)

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ATGACCTCAGAAATACTCACTTTTTATTAATGCTAAATATGTTAGAAAGAAATGATAGCATTCAGCATTT
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CAACTTATTTTCCTGGGGAGAGGTGCCTAGAGGGATTGAGGTAACTTCAACTGGGAATTCCAAGGAAGGT
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TGTCTTGACCTACTGAAAAGTTGGGAACTGAGGGGTGCCTTCATTCCCCTTTGTTCACTTTCTCCAGCTC
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CTTTTTCATTCTTTCTAAAACCTTGATATCCTCAGCCCAAAGGCGATGCCCCCCTGCCACCTCCAAGCCT
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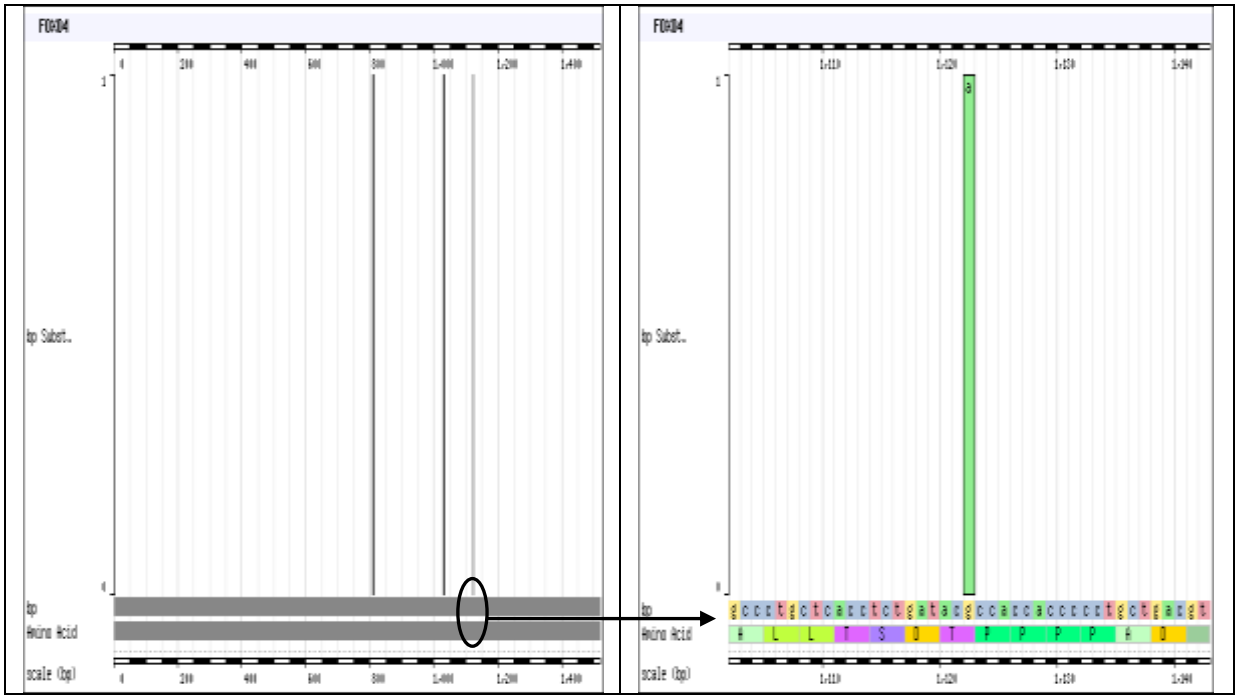
22) Entrez Gene ID 4303 = FOXO4, forkhead box O4 = BC026735



>gi|19934350|gb|BC026735.1| Homo sapiens forkhead box O4, mRNA (cDNA clone IMAGE:5106176)

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CAGCAGTGTCAGCACCCGGCTGTCCCCCTTGAGGCCAGAGTCTGAGGTGCTGGCGGAGGAAATACCAGCT
TCAGTCAGCAGTTATGCAGGGGGTGTCCCTCCCACCCTCAATGAAGGTCTAGAGCTGTTAGATGGGCTCA
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GGAGCTTGGCTGAGGGTCTGGGAAATGAGCAGGGATGGGGGGGGATGTGGATCAGGTTTACTAGCACCTG
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ATCGTCCCCTCCCCCACCCCTGCTGTGGGTTCCCATCATTTCCTGTGTCAGCGCCTGGCCTACCCAGATT
GTAT**CATGTGCTAGATTGGAGTGGG**GAAGTGTGTCAAATCAATAAATGAATAAATTCAATAAATGCCTAT
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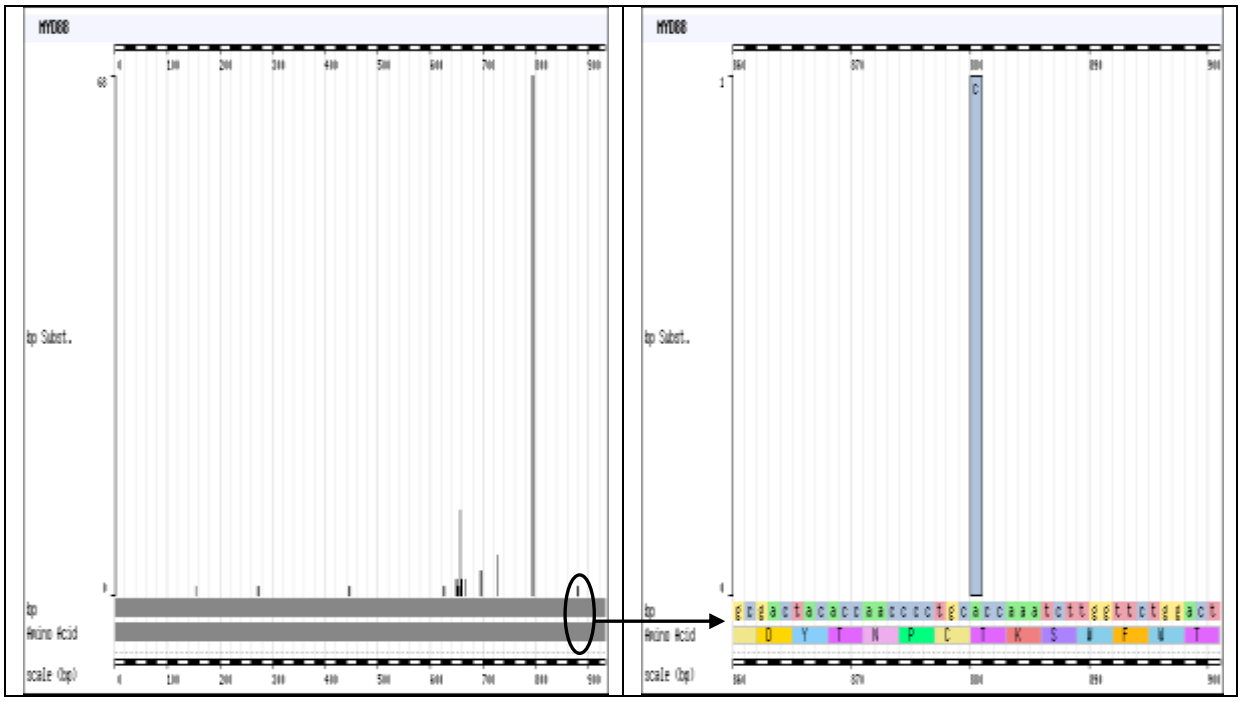
23) Entrez Gene ID 4615 = MYD88, myeloid differentiation primary response gene (88) = U70451



>gi|1763090|gb|U70451.1|HSU70451 Human myeloid differentiation primary response protein MyD88 mRNA, complete cds
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AGATCCGGCAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCCTGGCAGGGACGCCCTGG
CGCCTCTGTAGGCCGACTGCTCGAGCTGCTTACCAAGCTGGGCTGCGACGACGTGCTGCTGGAGCTGGGA
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CCTGGGGCATATGCCTGAGCGTTTCGATGCCTTCATCTGCTATTGCCCCAGCGACATCCAGTTTGTGCAG
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GCCCATCAGAAGCGACTGATCCCCATCAAGTACAAGGCAATGAAGAAAGAGTTCCCCAGCATCCTGAGGT
TCATCACTGTCT<u>GCGACTACACCAACCCCTGC</u>**A**<u>CCAAATCTTGGTTCTGGACT</u>CGCCTTGCCAAGGCCTT
GTCCCTGCCCTGAAGACTGTTCTGAGGCCCTGGGTGTGTGTGTATCTGTCTGCCTGTCCATGTACTTCTG
CCCTGCCTCCTCCTTTCGTTGTAGGAGGAATCTGTGCTCTACTTACCTCTCAATTCCTGGAGATGCCAAC
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GCATCTTCTA**CATGTTTTGTACGCATTAAAA**TAATTTCAAAGATATCTGAGAAAAGCCGATATTTGCCAT
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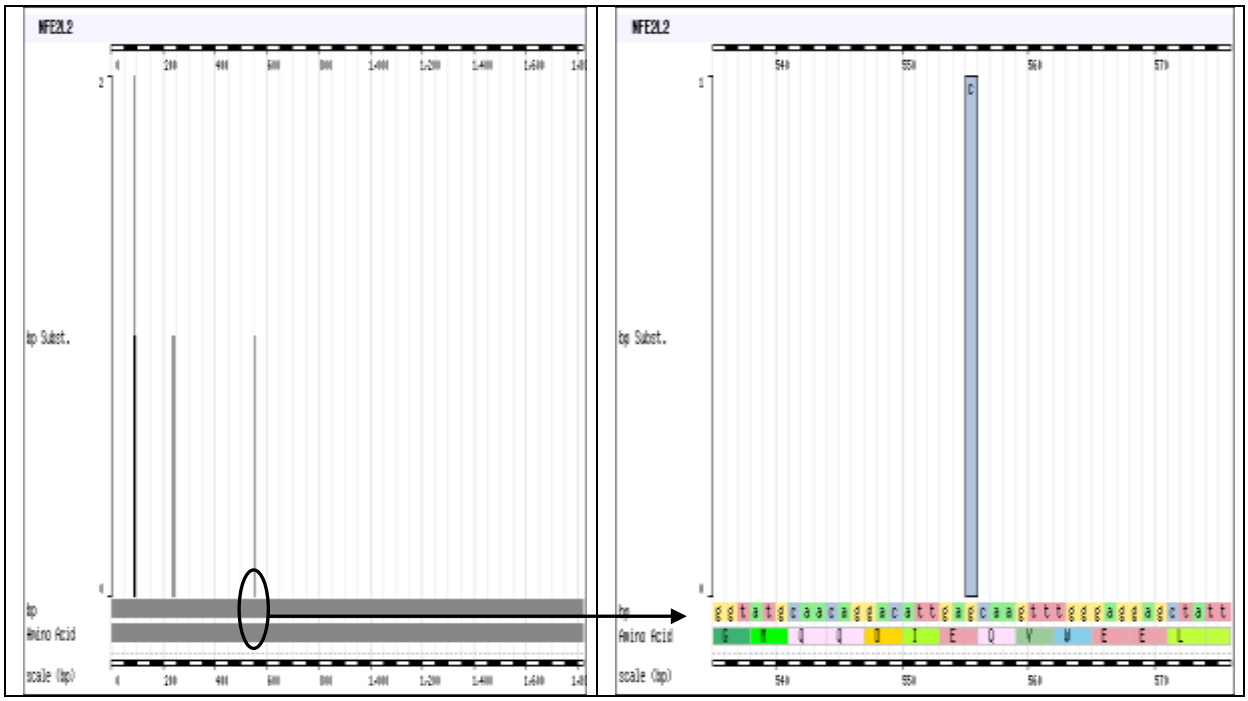
24) Entrez Gene ID 4780 = NFE2L2, nuclear factor (erythroid-derived 2)-like 2= BC011558



>gi|15079436|gb|BC011558.1| Homo sapiens nuclear factor (erythroid-derived 2)-like 2, mRNA (cDNA clone MGC:20033 IMAGE:4548874), complete cds
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CCCCTGTTGATTTAGACGGTATGCAACAGGACATTGA**G**CAAGTTTGGGAGGAGCTATTATCCATTCCTGA
GTTACAGTGTCTTAATATTGAAAATGACAAGCTGGTTGAGACTACCATGGTTCCAAGTCCAGAAGCCAAA

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GACAGTGAACTCATTAAATTCAGATGCCACAGTCAACACAGATTTTGGTGATGAATTTTATTCTGCTTTC
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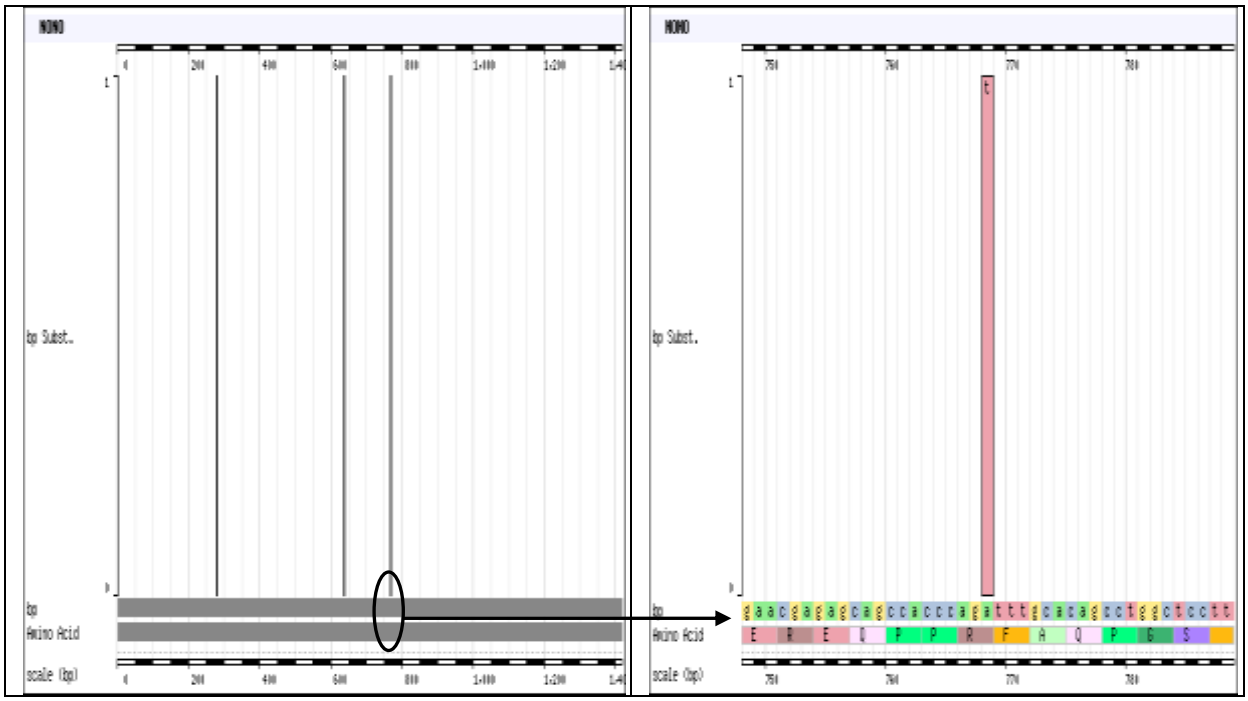
25) Entrez Gene ID 4841 = NONO, non-POU domain containing, octamer-binding = BC003129



>gi|13111916|gb|BC003129.1| Homo sapiens non-POU domain containing, octamer-binding, mRNA (cDNA clone MGC:3380 IMAGE:2957871), complete cds

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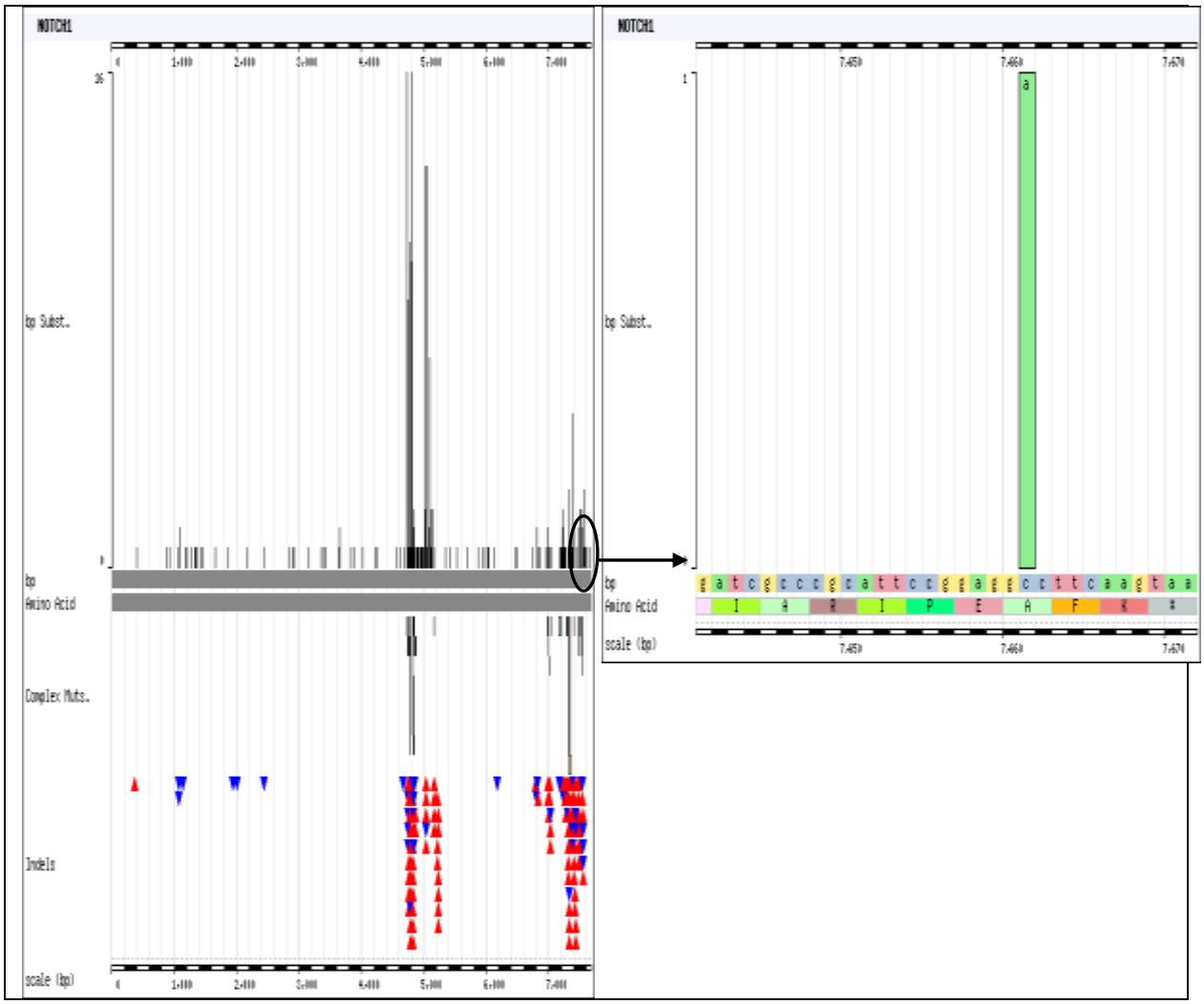
26) Entrez Gene ID 4851 = NOTCH1, notch 1 = BC013208



>gi|15301451|gb|BC013208.1| Homo sapiens Notch homolog 1, translocation-associated (Drosophila), mRNA (cDNA clone IMAGE:4156263)

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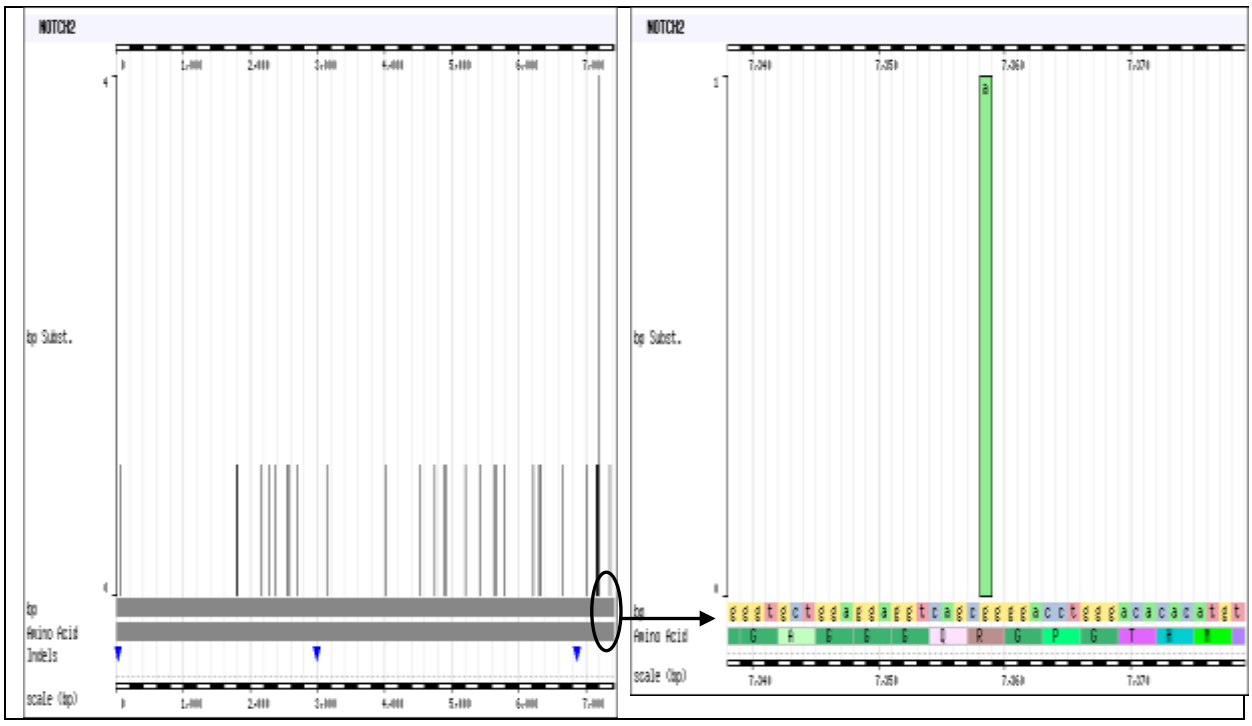
27) Entrez Gene ID 4853 = NOTCH2, notch 2 = AL049386



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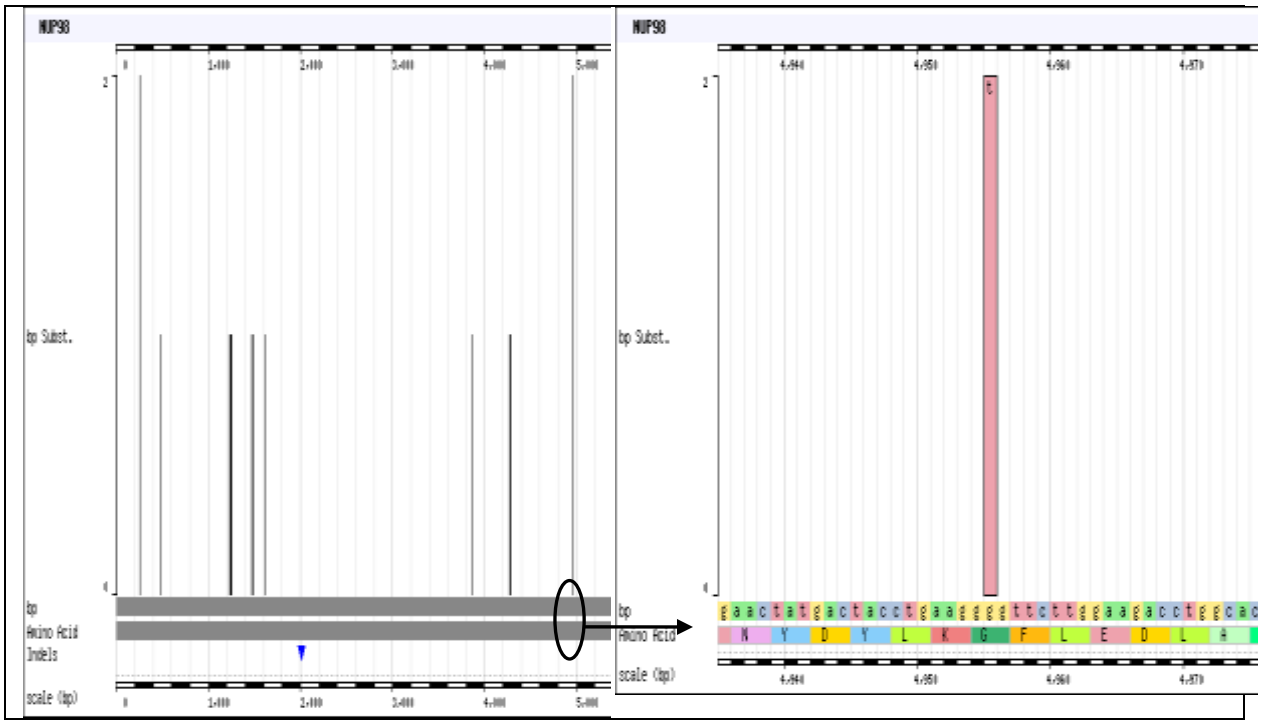
28) Entrez Gene ID 4928 = NUP98, nucleoporin 98kDa = AB040538



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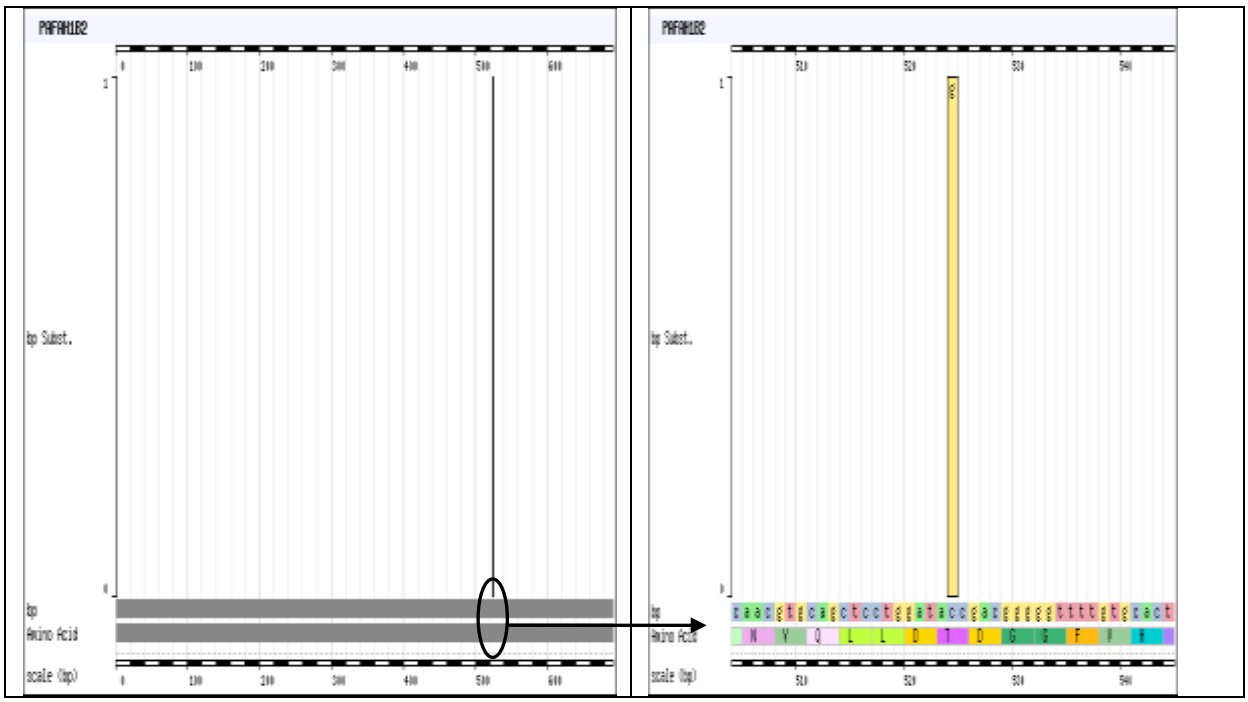
29) Entrez Gene ID 5049 = PAFAH1B2, platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa) = DQ836743



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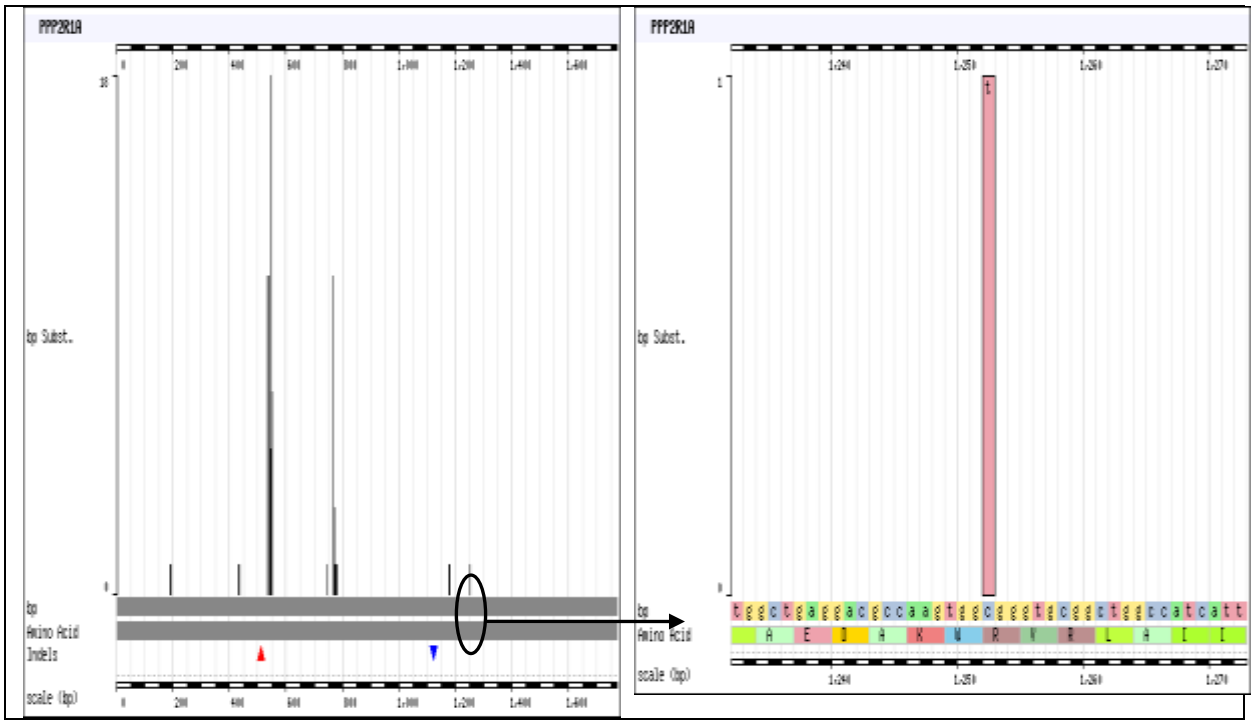
30) Entrez Gene ID 5518 = PPP2R1A, protein phosphatase 2, regulatory subunit A, alpha = BC001537



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AGGAGCAAACACTGGCCTCTGGTGTCCACCCTCCAACCCCCACAAGTCCCTCTTTGGGGAGACACTGGGG
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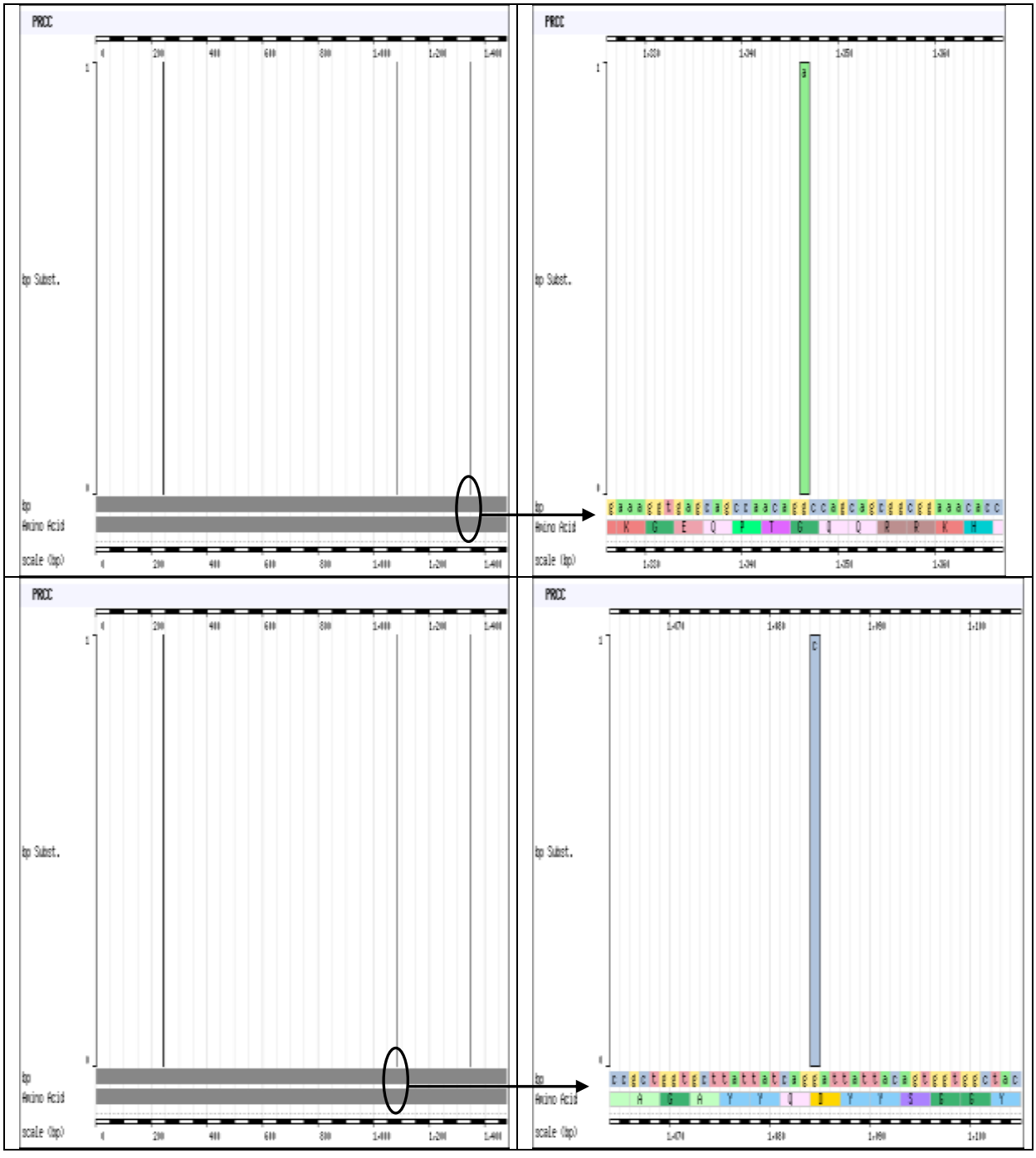
31) Entrez Gene ID 5546 = PRCC, papillary renal cell carcinoma (translocation-associated) = BC004913



>gi|33873117|gb|BC004913.2| Homo sapiens papillary renal cell carcinoma (translocation-associated), mRNA (cDNA clone MGC:4723 IMAGE:3535413), complete cds

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CGCTGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGAGGCTGAGCCCGAGCCGGAGGAAGAGGA
GGCGGTGGCTCCTACATCTGGGCCCGCTTTAGGGGGCTTGTTCGCTTCTCTCCCTGCGCCCAAGGGTCCG

GCCTTGCTGCCTCCGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCCGCCGCTGTTGCTTCCCCCACCCA
CCGGAGACCCCAGGCTTCAGCCTCCTCCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCCCCCACCTCCAGG
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GGCCTCAATCTGCCCCCTCCAATTGGCGGTGCCGGTCCCCCGCTGGGGCTTCCCAAGCCAAAGAAGAGGA
AAGAGCCCGTGAAGATCGCGGCGCCGGAGTTGCATAAGGGAGATTCAGATTCTGAGGAAGATGAACCCAC
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CACAACCACCACTCCGTCGCCCTCTGCTATCAAGGCTGCTGCCAAGAGTGCTGCCCTGCAGGTGACAAAG
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GTTGAACCCTCCCCACCACCACTTTTTTTTTTTTAAACCAGGGATGTCTGTTGAAATAAAACATTCAGTC
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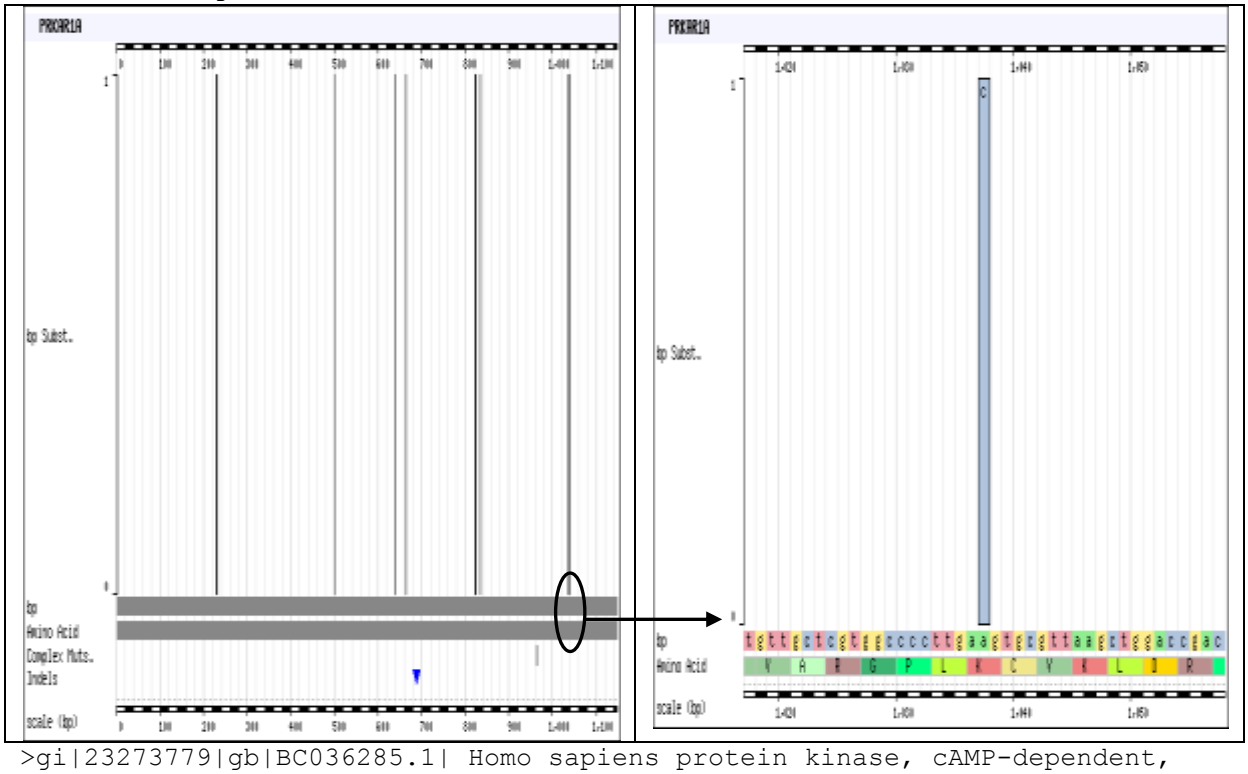
32) Entrez Gene ID 5573 = PRKAR1A, protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1) = BC036285



>gi|23273779|gb|BC036285.1| Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1), mRNA (cDNA clone MGC:17251 IMAGE:4340015), complete cds
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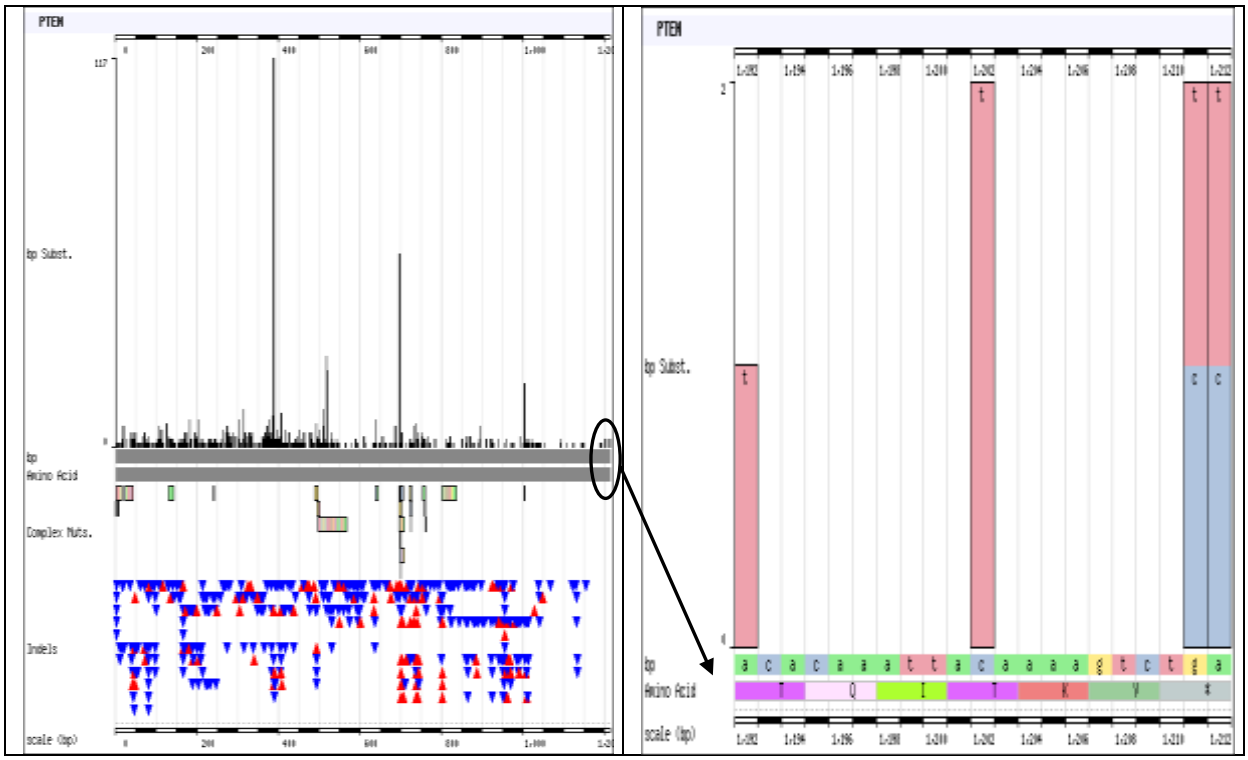
33) Entrez Gene ID 5728 = PTEN, phosphatase and tensin homolog = U96180



>gi|2039369|gb|U96180.1|HSU96180 Human protein tyrosine phosphatase (TEP1) mRNA, complete cds

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CGGCAGCGGCGGCGTTTCTCGCCTCCTCTTCGTCTTTTCTAACCGTGCAGCCTCTTCCTCGGCTTCTCCT
GAAAGGGAAGGTGGAAGCCGTGGGCTCGGGCGGGAGCCGGCTGAGGCGCGGCGGCGGCGGCGGCACCTCC
CGCTCCTGGAGCGGGGGGGAGAAGCGGCGGCGGCGGCGGCCGCGGCGGCTGCAGCTCCAGGGAGGGGGTC
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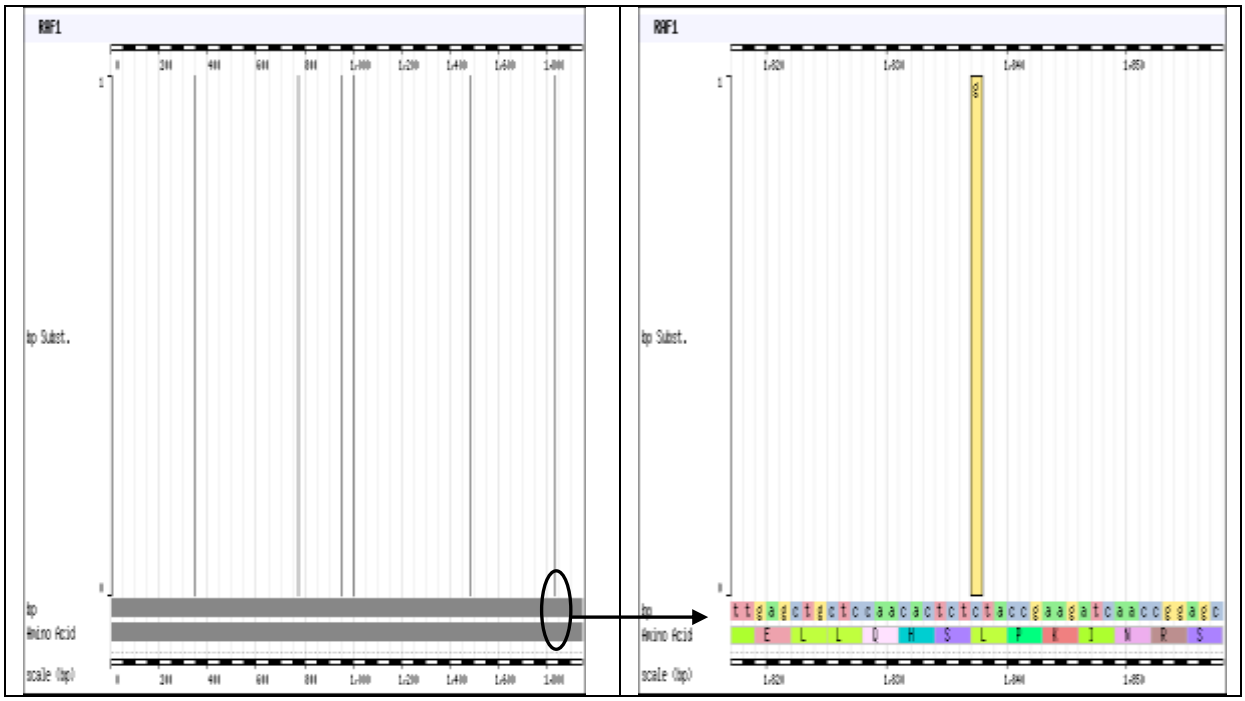
34) Entrez Gene ID 5894 = RAF1, v-raf-1 murine leukemia viral oncogene homolog 1 = BC018119



>gi|34190937|gb|BC018119.2| Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1, mRNA (cDNA clone MGC:9026 IMAGE:3904404), complete cds

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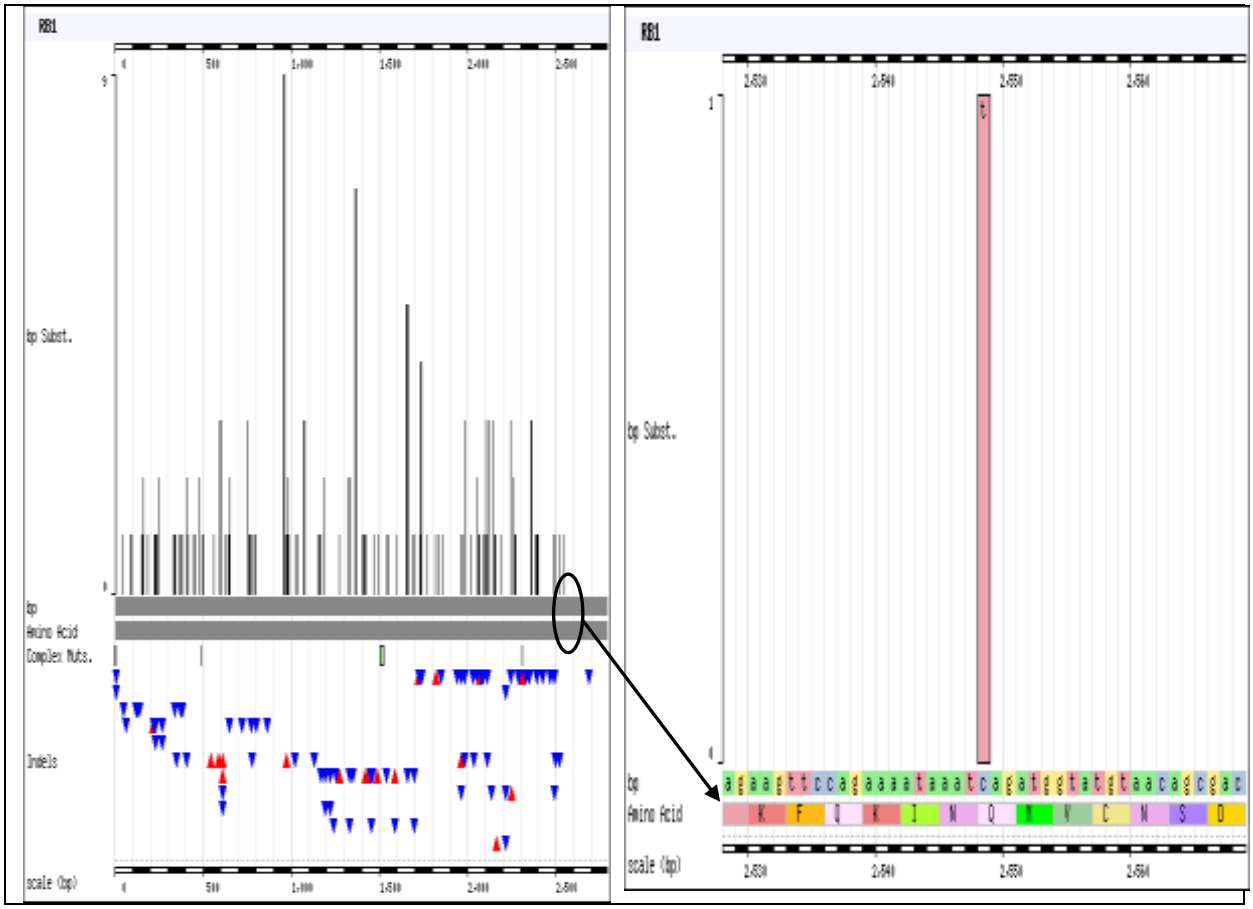
35) Entrez Gene ID 5925 = RB1, retinoblastoma 1 = BC039060



>gi|24660139|gb|BC039060.1| Homo sapiens retinoblastoma 1, mRNA (cDNA clone MGC:29887 IMAGE:5142020), complete cds
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TGTGTAAATCCTGCCATTTAAAAAGTTGTAGCAGATTGTTTCCTCTTCCAAAGTAAAATTGCTGTGCTTT
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TTGTAGCATATAGGTGATGTTTGCTCTTGTTTTTATTAATTTATATGTATATTTTTTTAATTTAACATGA
ACACCCTTAGAAAATGTGTCCTATCTATCTTCCAAATGCAATTTGATTGACTGCCCATTCACCAAAATTA
TCCTGAACTCTTCTGCAAAAATGGATATTATTAGAAATTAGAAAAAAATTACTAATTTTACACATTAGAT
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GCTGGAAGCAAAGTATAACCATATGATACTATCATACTACTGAAACAGATTTCATACCTCAGAATGTAAA
AGAACTTACTGATTATTTTCTTCATCCAACTTATGTTTTTAAATGAGGATTATTGATAGTACTCTTGGTT
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GATCTTAGGTATAGAGGACCCTAACACAGTATATCCCAAGTGCACTTTCTAATGTTTCTGGGTCCTGAAG
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AGAGATTTGTCTAATTGCATCTCAAAATTATTCTGCCCTCCTTAATTTGGGAAGGTTTGTGTTTTCTCTG
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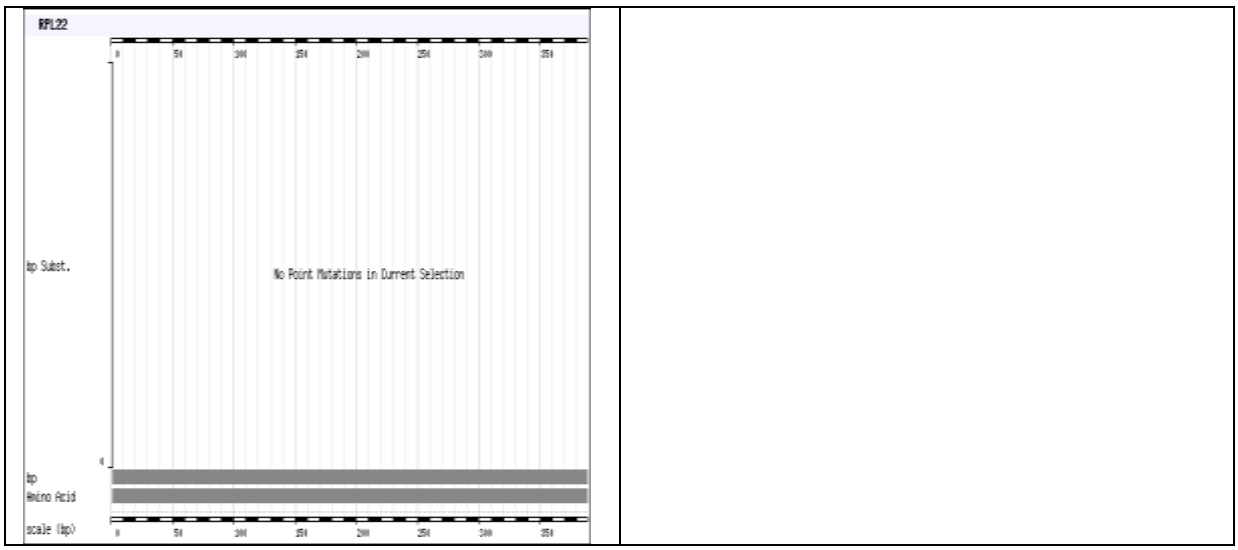
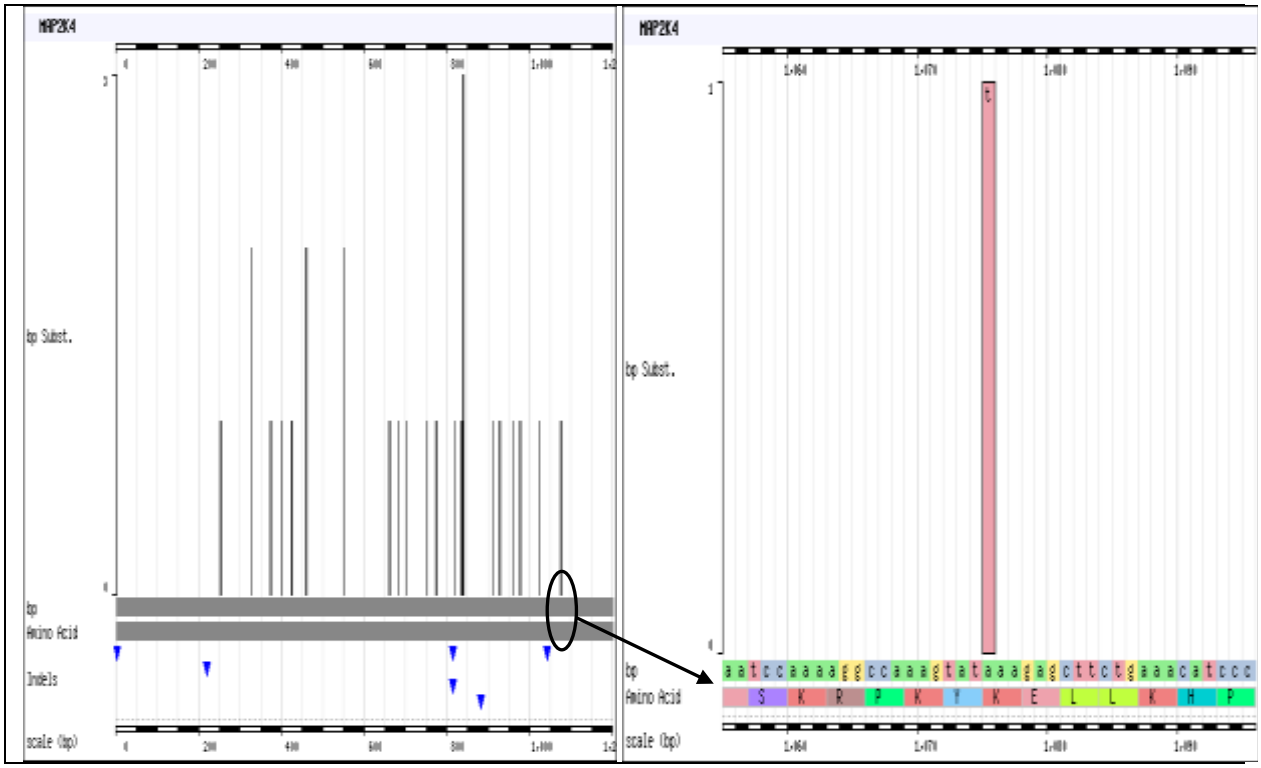
36) Entrez Gene ID 6146 = RPL22, ribosomal protein L22 = NM_000983



Although RPL22 belongs to the list of COSMIC (v56) somatically mutated genes in cancer, no point mutation has been recorded.

37) Entrez Gene ID 6416 = MAP2K4, mitogen-activated protein kinase kinase 4 = BC036032



>gi|23241687|gb|BC036032.1| Homo sapiens mitogen-activated protein kinase kinase 4, mRNA (cDNA clone MGC:33126 IMAGE:5272439), complete cds
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AGGGTCCCCGGCGCCAGGCCACCCGGCCGTCAGCAGCATGCAGGGTAAACGCAAAGCACTGAAGTTGAAT
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CACACATAGAGAGACTGAGAACACACAGCATTGAGTCATCAGGAAAACTGAAGATCTCCCCTGAACAACA
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AAAATGGTCCACAAACCAAGTGGGCAAATAATGGCAGTTAAAAGAATTCGGTCAACAGTGGATGAAAAAG
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CAACTGTGAAAGCACTAAACCACTTAAAAGAAAACTTGAAAATTATTCACAGAGATATCAAACCTTCCAA
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GTCGATTGATATCGCTGCTACATCAGACTCTAGAAAAAAGGGCTGAGAGGAAGCAAGACGTAAAGAATTT
TCATCCCGTATCACAGTGTTTTTATTGCTCGCCCAGACACCATGTGCAATAAGATTGGTGTTCGTTTCCA
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GCTGGTCAGAGAGACCTCATCCTGCTCTTTTGTGATGAACATATTCATGAAATGTGGAAGTCAGTACGAT
CAAGTTGTTGACTGTGATTAGATCACATCTTAAATTCATTTCTAGACTCAAAACCTGGAGATGCAGCTAC
TGGAATGGTGTTTTGTCAGACTTCCAAATCCTGGAAGGACACAGTGATGAATGTACTATGTCTGAACATA
GAAACTCGGGCTTGAGTGAGAAGAGCTTGCACAGCCAACGAGACACATTGCCTTCTGGAGCTGGGAGACA
AAGGAGGAATTTACTTTCTTCACCAAGTGCAATAGATTACTGATGTGATATTCTGTTGCTTTACAGTTAC
AGTTGATGTTTGGGGATCGATGTGCTCAGCCAAATTTCCTGTTTGAAATATCATGTTAAATTAGAATGAA
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GTTCTTTTCTCCTTTACCAGTCCTATTTTTCAATGGGAAGACTCAGGAGTCTGCCACTTGTCAAAGAAGG
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CCACCAGGACTGAAAGAAGAAAACAGTACAGAAGGCAAAGTTTACAGATGTTTTTAATTCTAGTATTTTA
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ACTAACAGGGAGAAGTAGCTAGTAGCAATGTGCCTTGATTGATTAGATAAAGATTTCTAGTAGGCAGCAA
AAGACCAAATCTCAGTTGTTTGCTTCTTGCCATCACTGGTCCAGGTCTTCAGTTTCCGAATCTCTTTCCC
TTCCCCTGTGGTCTATTGTCGCTATGTGACTTGCGCTTAATCCAATATTTTGCCTTTTTTCTATATCAAA
AAACCTTTACAGTTAGCAGGGATGTTCCTTACCAAGGATTTTTAGCCCCAAATCTCTCATATTCGCTAGT
GTTTAAAAGGCTAAGAATAGTGGGGCCCAGCCGATGTGGTAGGTGATAAAGAGGCATCTTTTCTAGAGAC
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TTGGGCCTCCCTGGCACTGAACCTTAGGCTTTGCATGACAGTGAAGCAGCACTGTGAGTGGTTCAAGCAC
ACTGGAATATAAAACAGTCATGGCCTGAGATGCAGGTGATGCCATTACAGAACCAAATCGTGGCACGTAT
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CTTCTCCCCCACGGTATCCTAAACTTTAGACTTCCCACTGTTCTGAAAGGAGACATTGCTCTATGTCTGC
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AAAATGGAGCTCAGTAACATAACTGCTTCTTGGAGCTTTGGAATATTTTATCCTGTATTCTTGTTTGAAT
TCCTCCTCTATTTAAGATATATA**CATGGAATCGAAGTGTTTATG**TAATAGTTCTATCCTTTTGCCTGCAG
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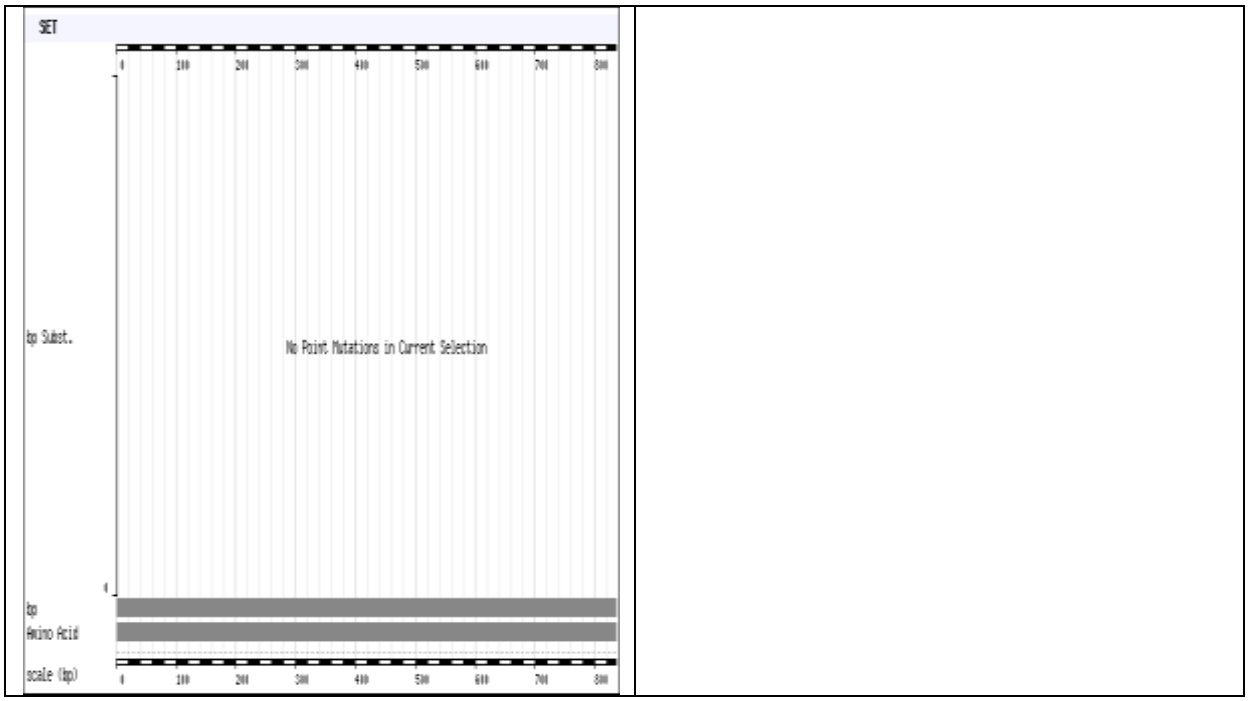
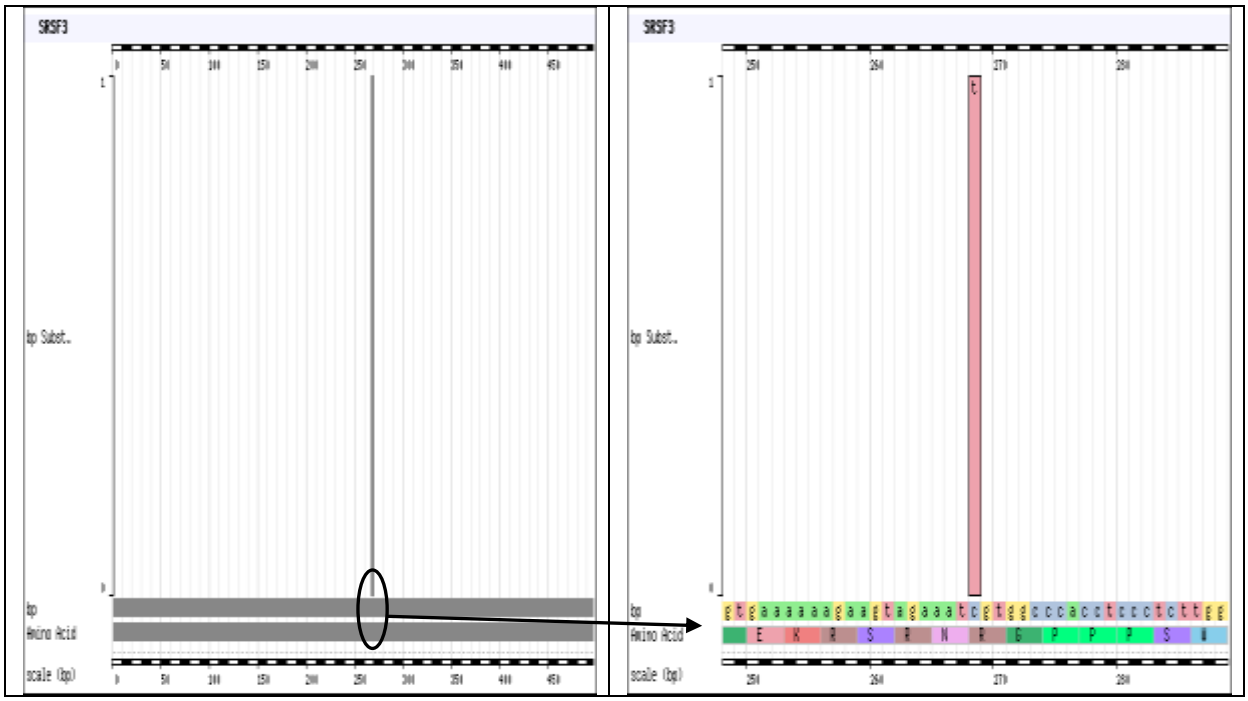
38) Entrez Gene ID 6418 = SET, SET nuclear oncogene = M93651



Although SET belongs to the list of COSMIC (v56) somatically mutated genes in cancer, no point mutation has been recorded.

39) Entrez Gene ID 6428 = SRSF3, serine/arginine-rich splicing factor 3 = AF107405



>gi|5531903|gb|AF107405.1| Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds

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GCATTTTTTAACCCTAGATCTCGAAATGCATCGTGATTCCTGTCCATTGGACTGTAAGGTTTATGTAGGC
AATCTTGGAAACAATGGCAACAAGACGGAATTGGAACGGGCTTTTGGCTACTATGGACCACTCCGAAGTG

TGTGGGTTGCTAGAAACCCACCCGGCTTTGCTTTTGTTGAATTTGAAGATCCCCGAGATGCAGCTGATGC
AGTCCGAGAGCTAGATGGAAGAACACTATGTGGCTGCCGTGTAAGAGTGGAACTGTCGAATGGTGAAAAA
AGAAGTAGAAATCGTGGCCCACCTCCCTCTTGGGGTCGTCGCCCTCGAGATGATTATCGTAGGAGGAGTC
CTCCACCTCGTCGCAGATCTCCAAGAAGGAGAAGCTTCTCTCGCAGCCGGAGCAGGTCCCTTTCTAGAGA
TAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCCGATCCTTCTCTAGGTCTCGT
AGTCGATCTAGGTCAAATGAAAGGAAATAGAAGACAGTTTGCAAGAGAAGTGGTGTACAGGAAATTACTT
CATTTGACAGGAGTATGTACAGAAAATTCAAGTTTTGTTTGAGACTTCATAAGCTTGGTGCATTTTTAAG
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TGCTTTGAACTTTTAGTTATGCACAGACTGATAATAAACCTCTAAACCTGCCCAGCGGAAGTGTGTTTTT
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AGGCACTATGGATTAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAGTGATAGTTAACCCATTTT
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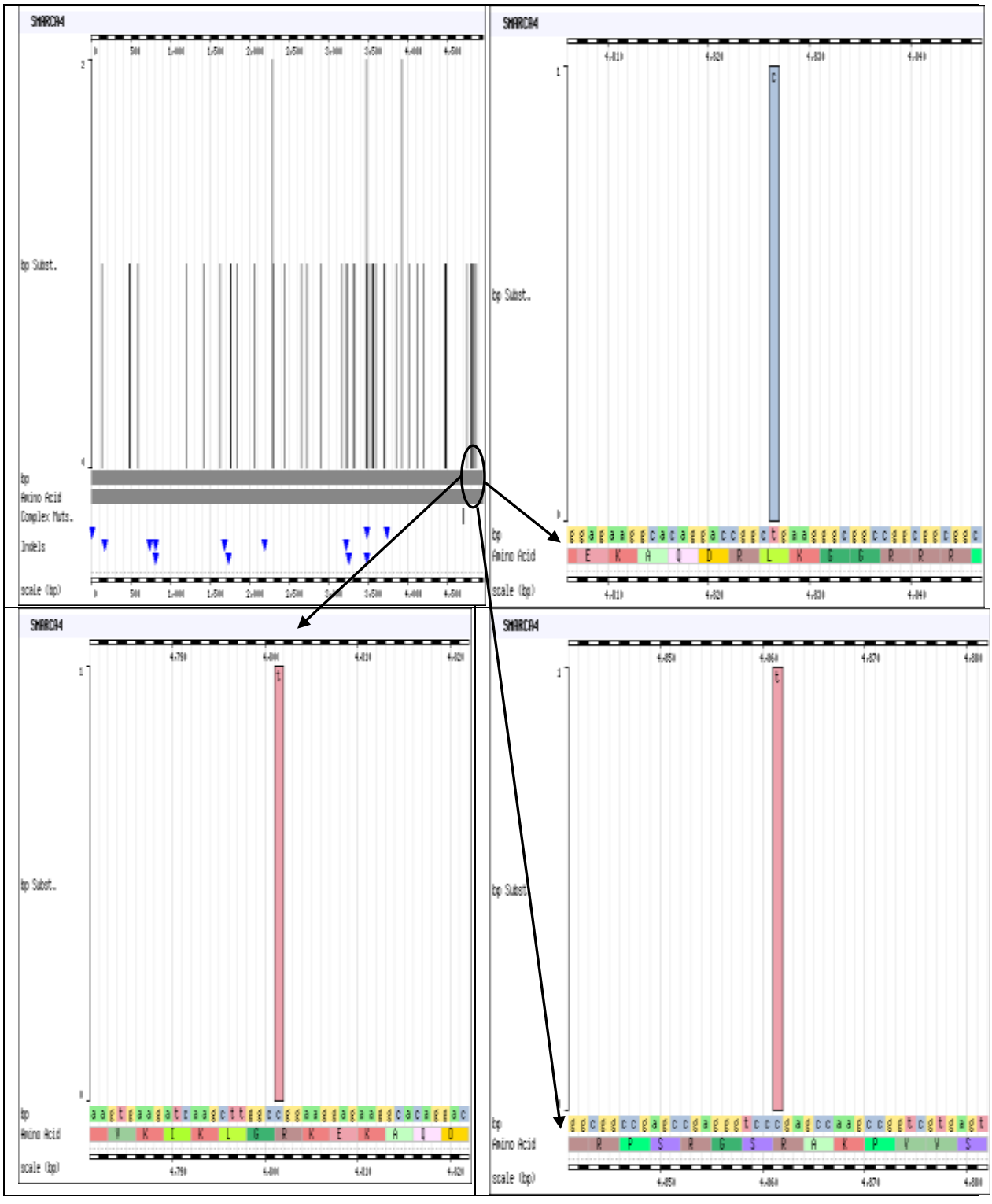
TCAAAAAAAAAAAAAAAAAAAAAAAAAAAA

40) Entrez Gene ID 6597 = SMARCA4, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 = BC150298


SMARCB4
bp Subst.
bp
Amino Acid
Complex Muts.
Indels
scale (bp)
SMARCB4
bp Subst..
bp
Amino Acid
scale (bp)
SMARCB4
bp Subst..
bp
Amino Acid
scale (bp)
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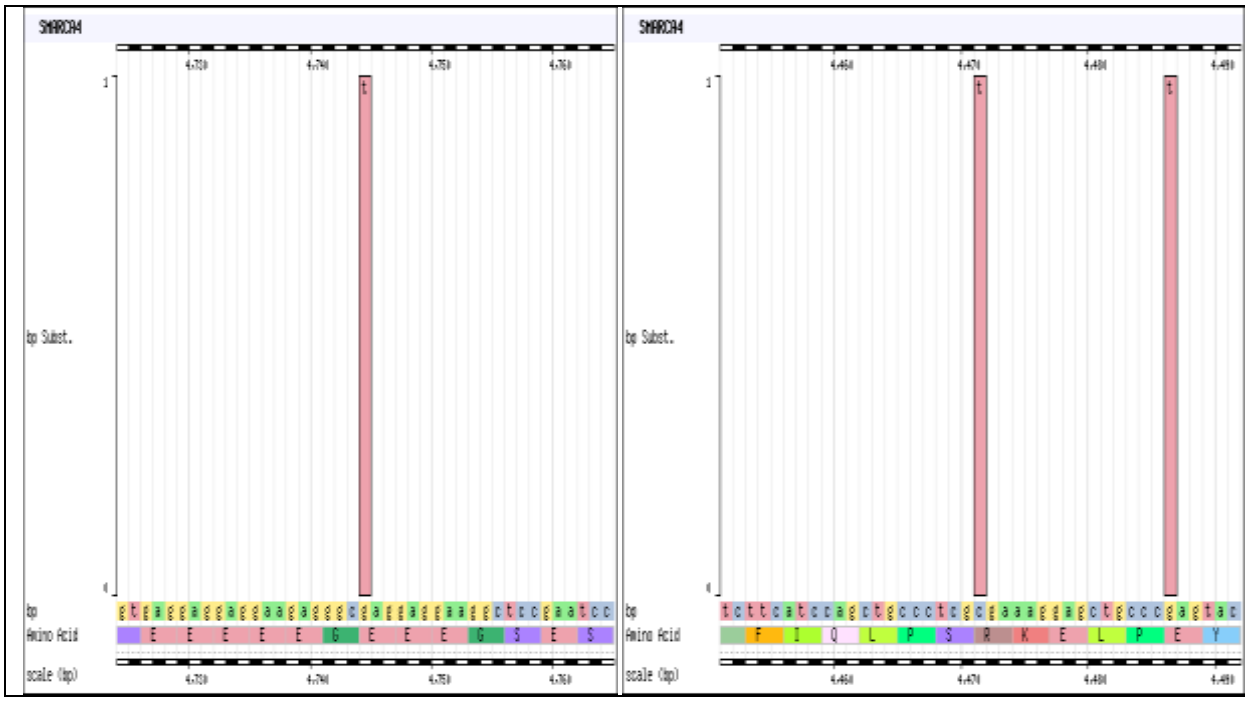
Amino Acid
scale (bp)



>gi|152013070|gb|BC150298.1| Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4, mRNA (cDNA clone MGC:167032 IMAGE:8860365), complete cds

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GCCATGCTGGGCCCTAGCCCGGGTCCCTCGCCGGGCTCCGCCCACAGCATGATGGGGCCCAGCCCAGGGC
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GATGCAGCAGCAGATGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGCCCTGGC
CCTGGCCCCGGCCCGGGTCCCGGCCCGGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCCA
ACATGCCTCCCCCAGGACCCTCGGGCGTGCCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAA
GCCCTGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCG
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CCAGCCATGAGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAGAGCAGACACTG
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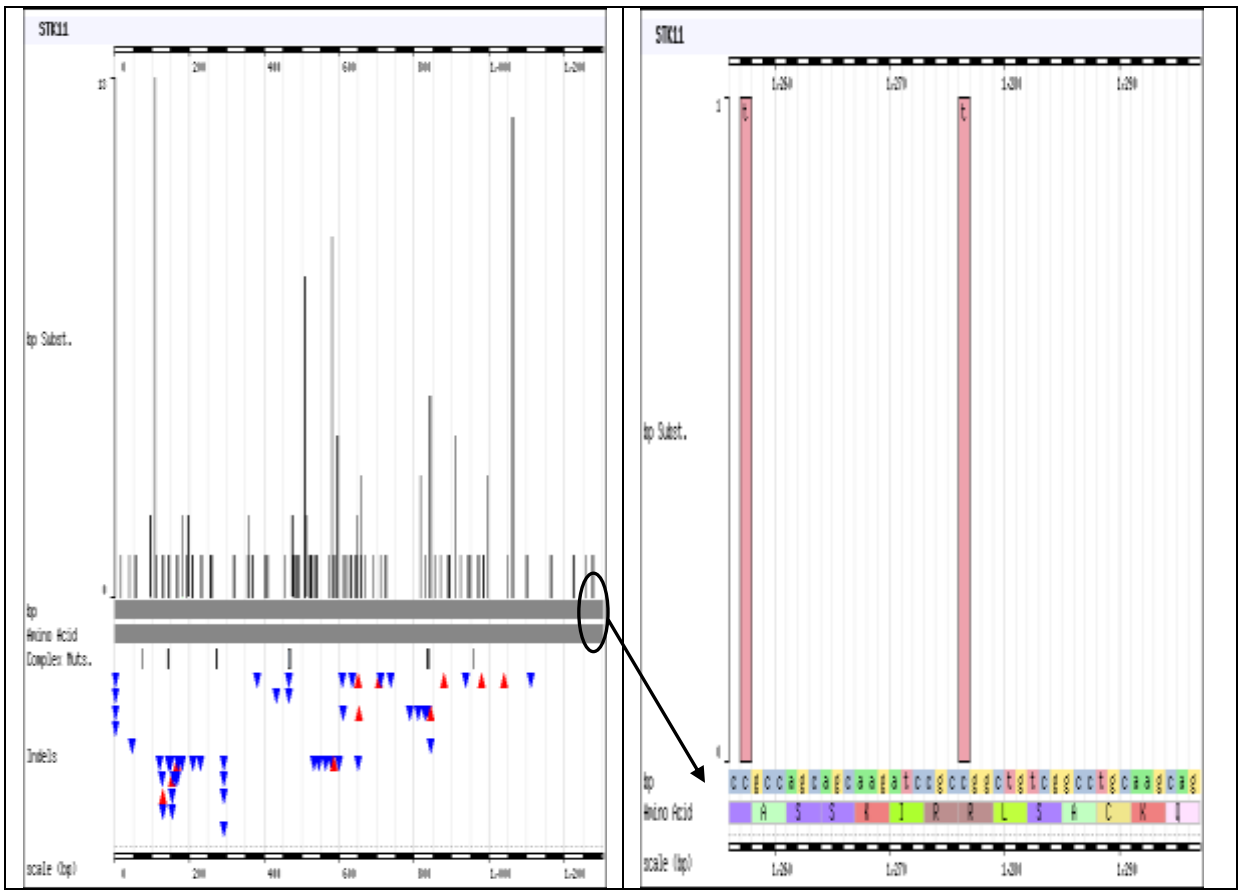
41) Entrez Gene ID 6794 = STK11, serine/threonine kinase 11 = BC007981



>gi|33872385|gb|BC007981.2| Homo sapiens serine/threonine kinase 11, mRNA (cDNA clone MGC:16254 IMAGE:3689780), complete cds

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CCCCCGGTGCCCGCCGGTCCGCAGACCCTGCACCGGGCTTGGACTCGCAGCCGGGACTGACGTGTAGAAC
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TCTTTGTAAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACTCAGGGCTG
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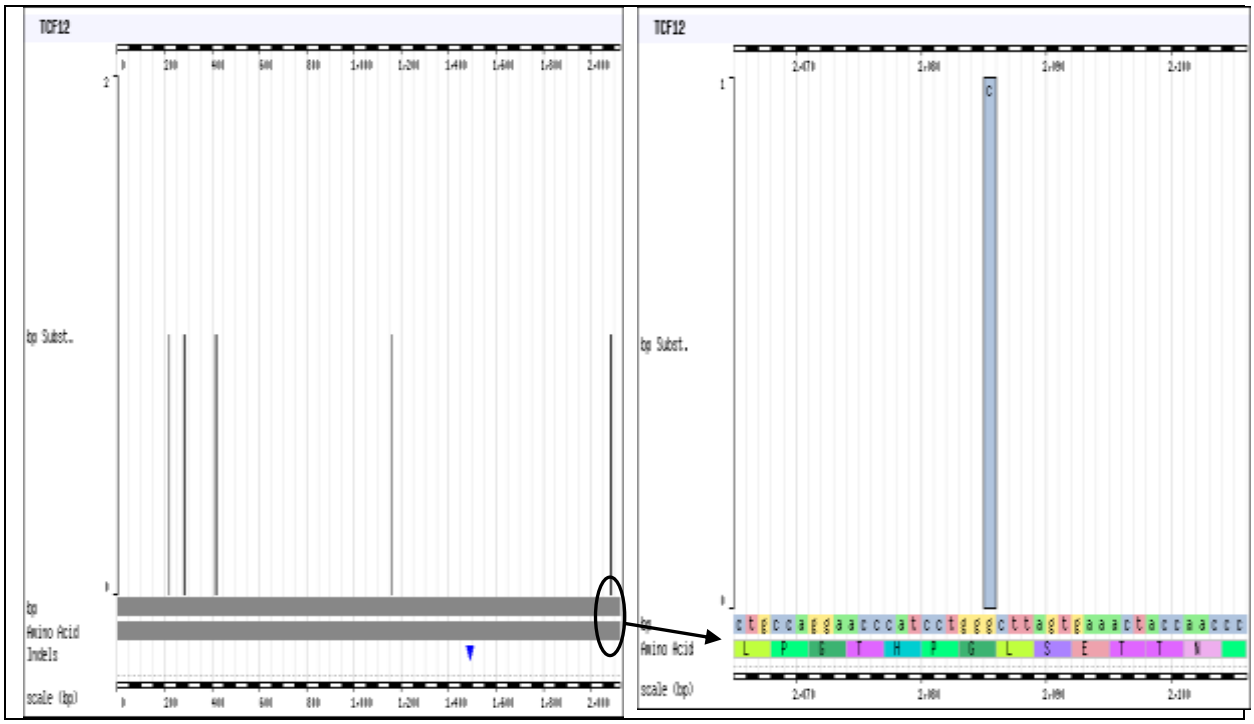
42) Entrez Gene ID 6938 = TCF12, transcription factor 12 = AL831981



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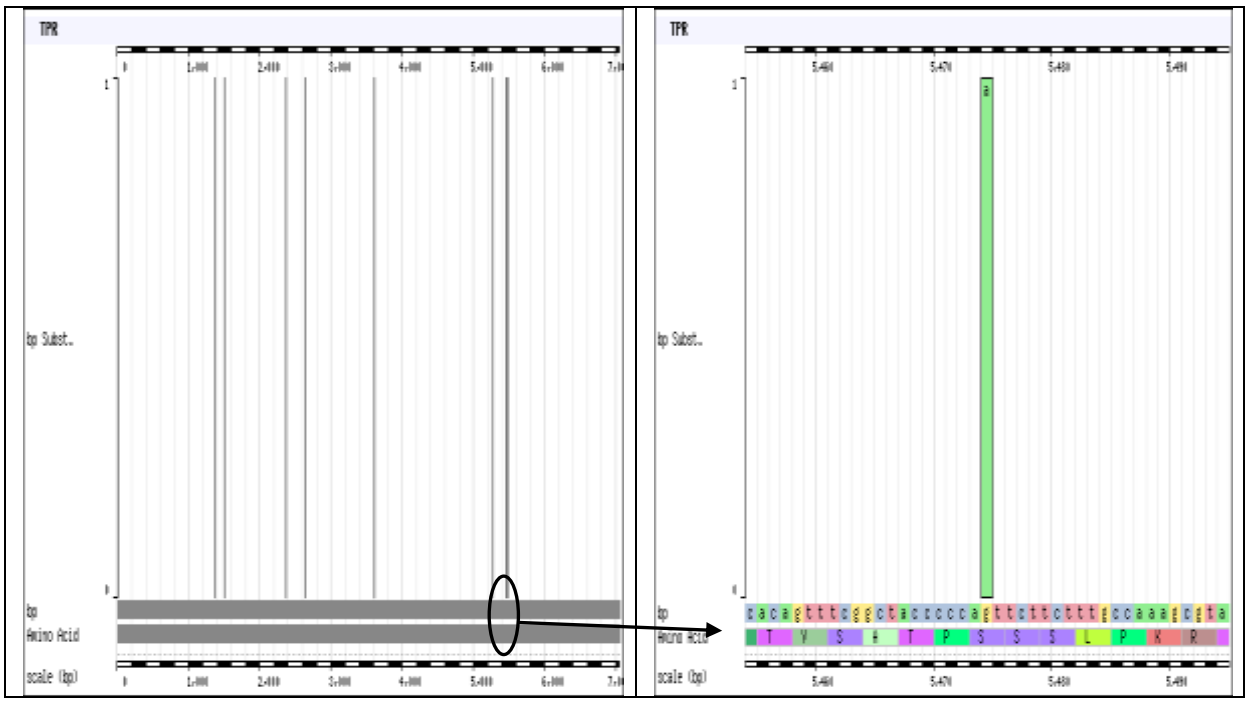
43) Entrez Gene ID 7175 = TPR, translocated promoter region (to activated MET oncogene) = U69668



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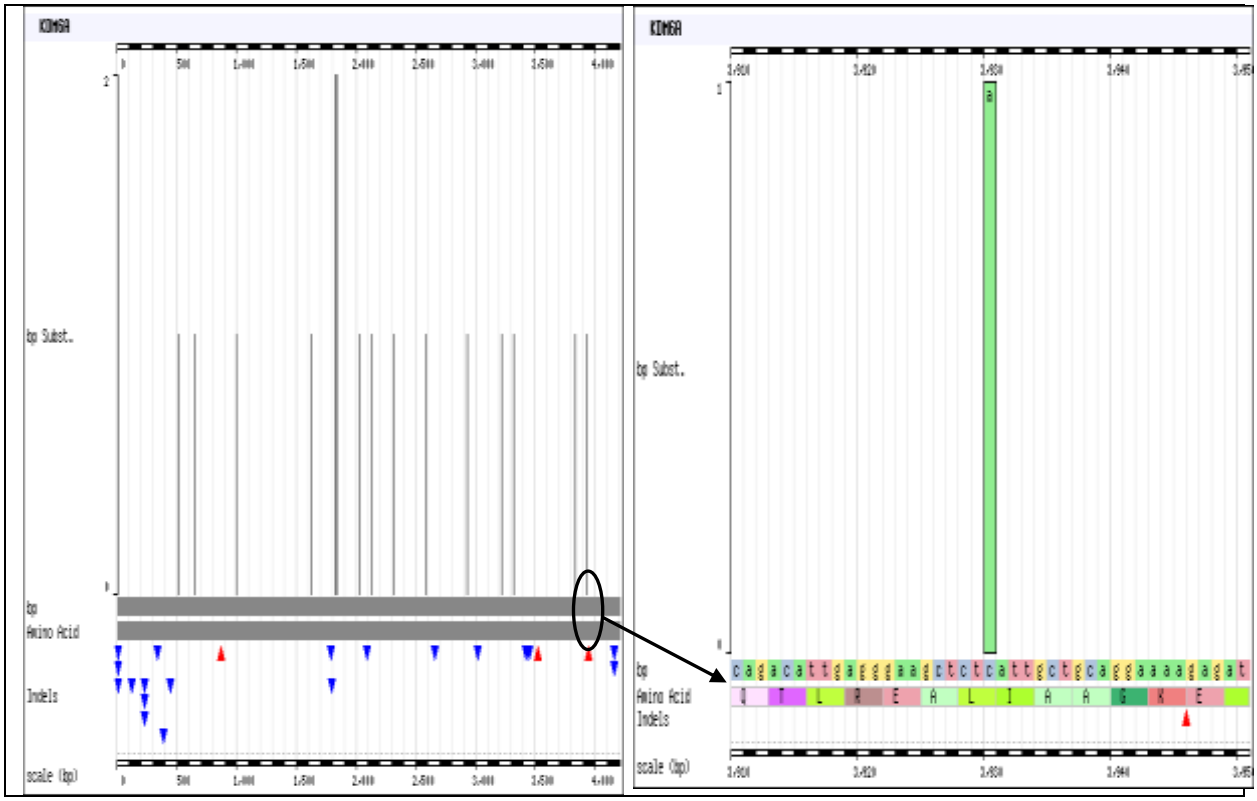
44) Entrez Gene ID 7403 = KDM6A, lysine (K)-specific demethylase 6A = AF000992



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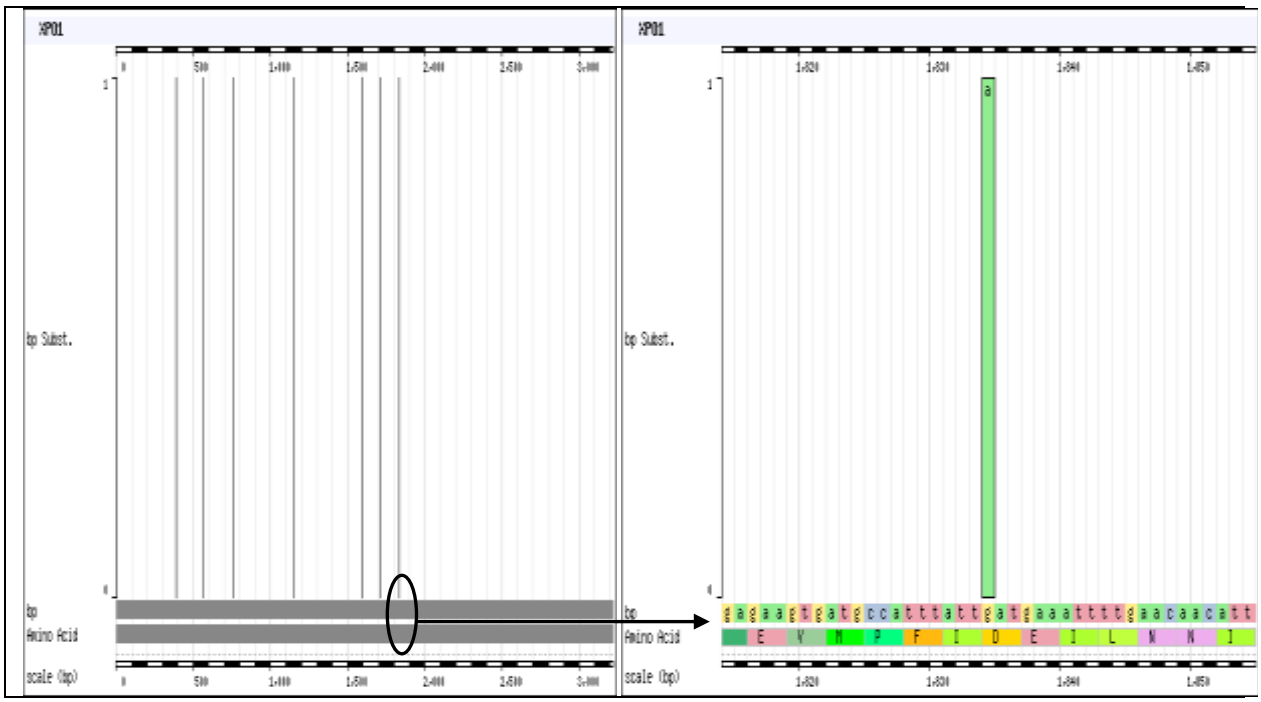
45) Entrez Gene ID 7514 = XPO1, exportin 1 (CRM1 homolog, yeast) = BX647758



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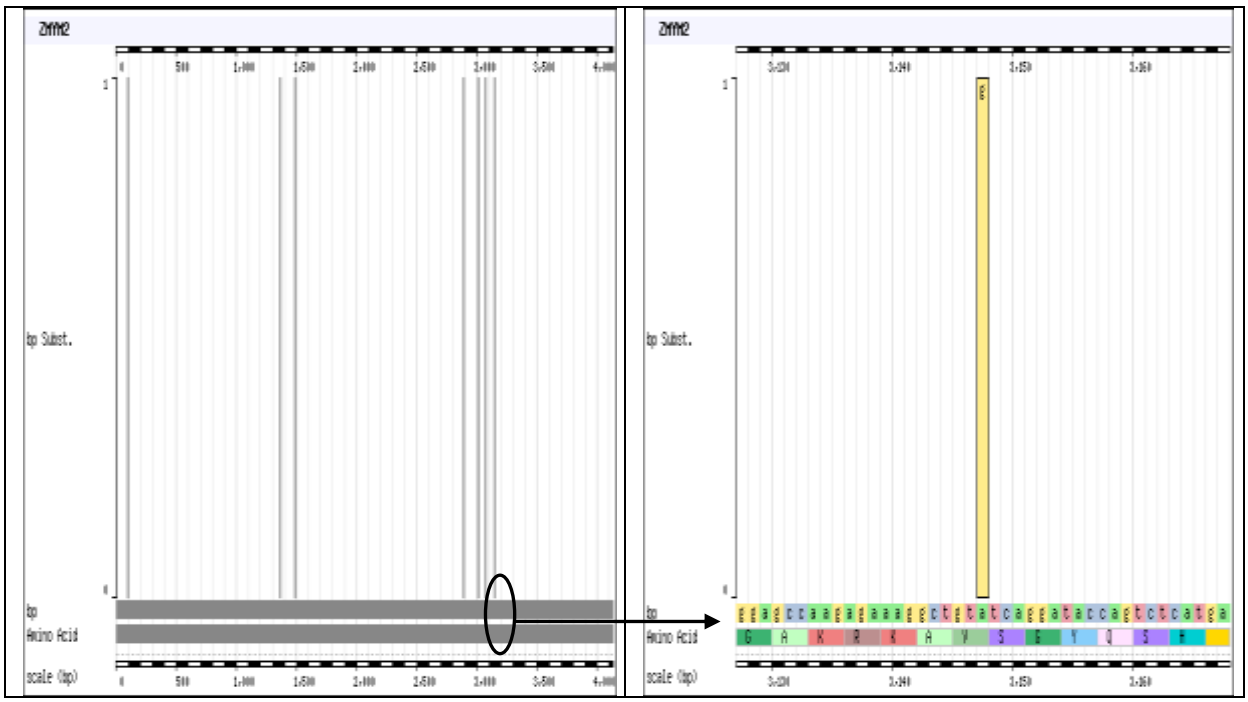
46) Entrez Gene ID 7750 = ZMYM2, zinc finger, MYM-type 2 = AF012126



>gi|2832227|gb|AF012126.1| Homo sapiens zinc finger protein (ZNF198) mRNA, complete cds

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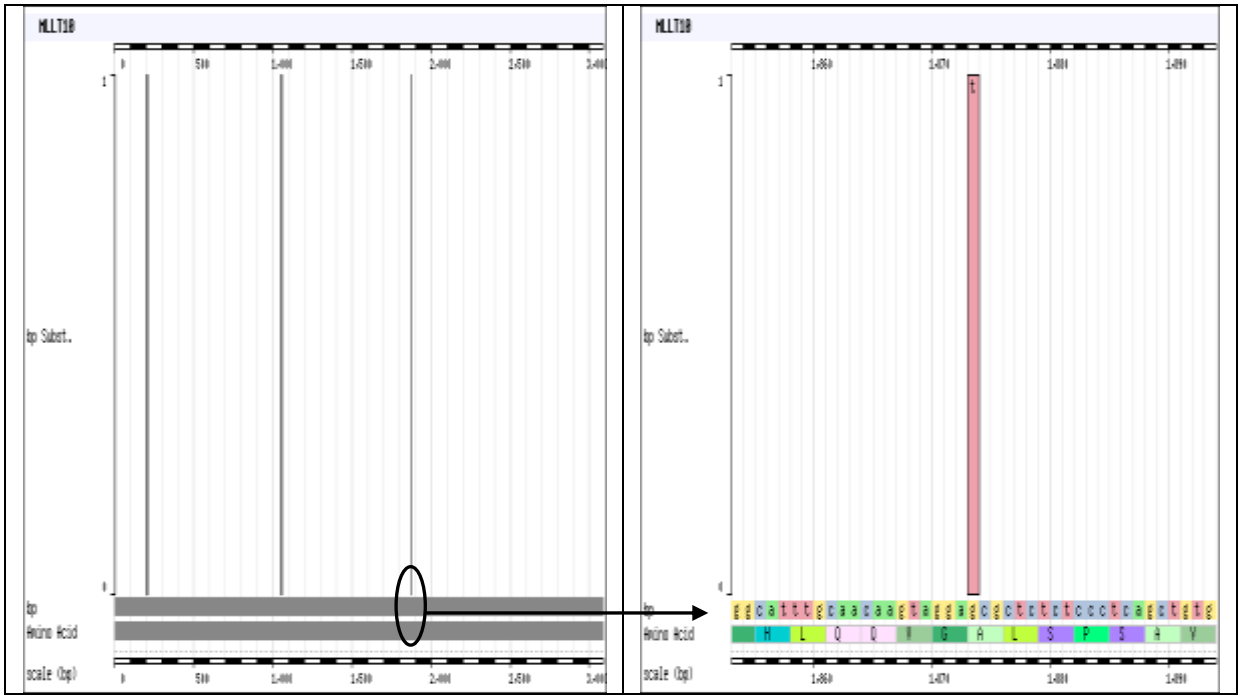
47) Entrez Gene ID 8028 = MLLT10, myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10 = BX648210



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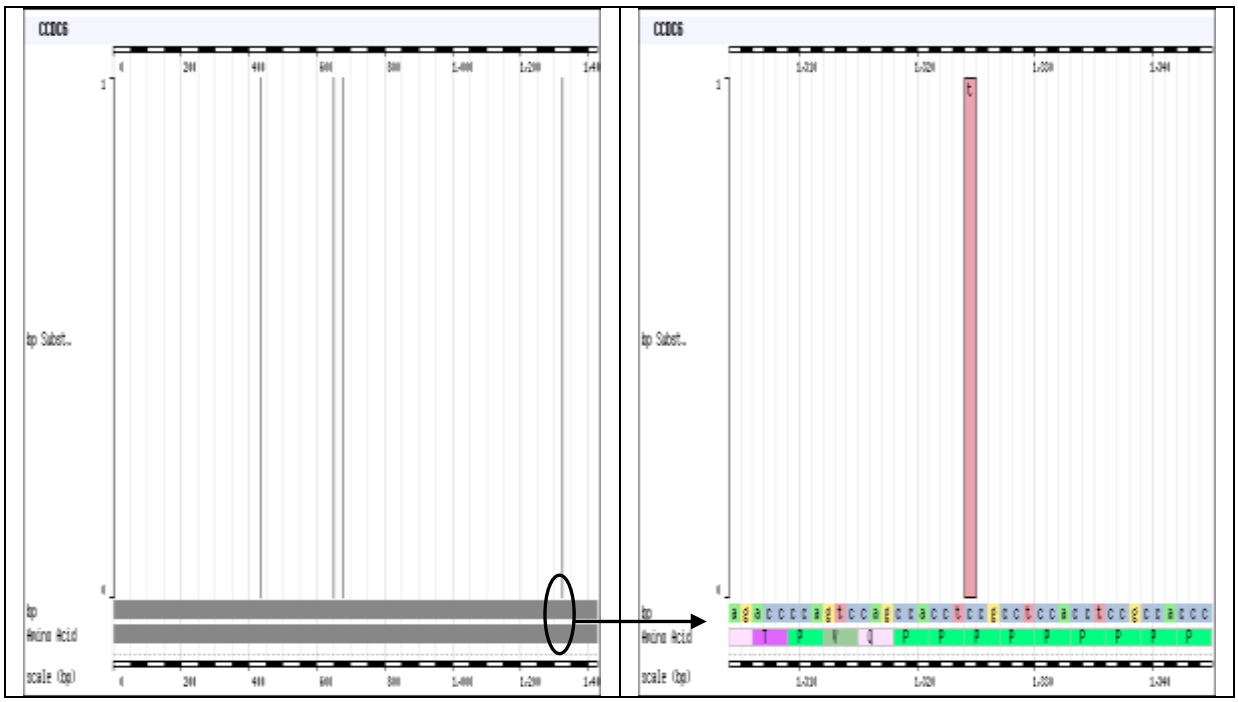
48) Entrez Gene ID 8030 = CCDC6, coiled-coil domain containing 6 = BC064391



>gi|39963680|gb|BC064391.1| Homo sapiens coiled-coil domain containing 6, mRNA (cDNA clone MGC:75097 IMAGE:5745698), complete cds

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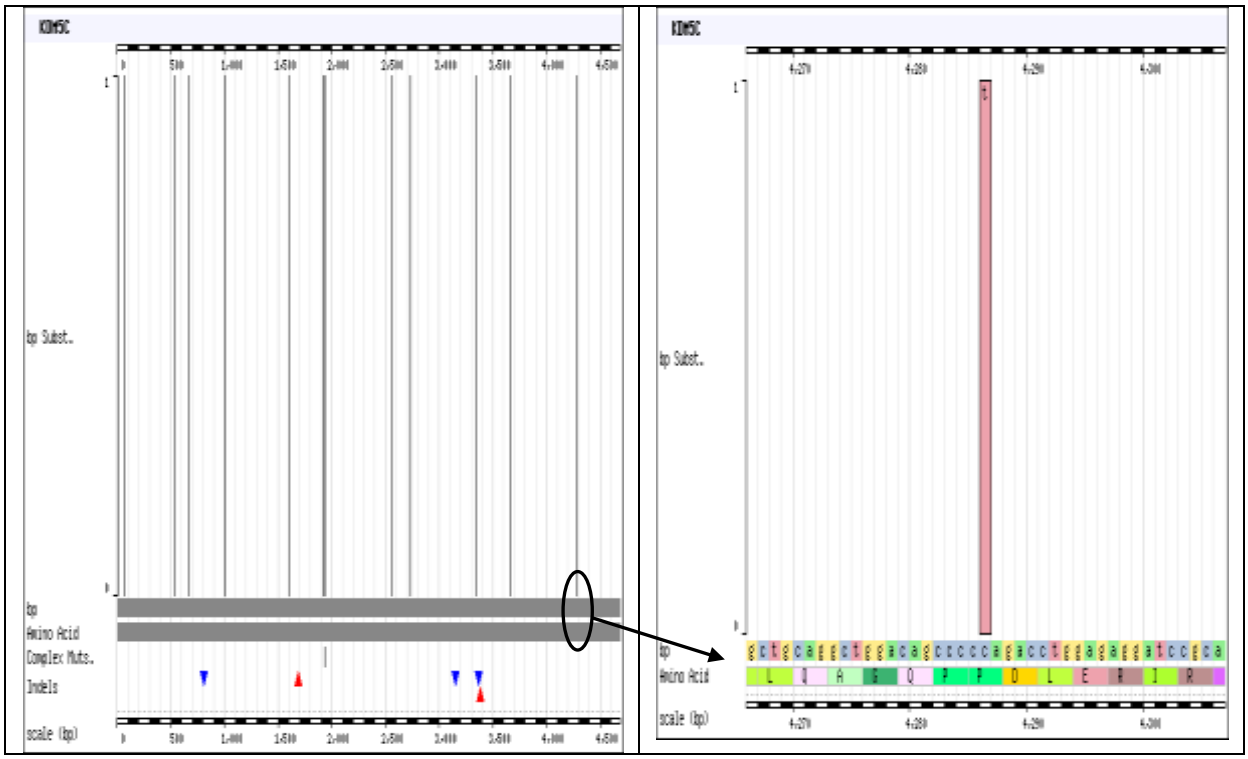
49) Entrez Gene ID 8242 = KDM5C, lysine (K)-specific demethylase 5C = BC054499



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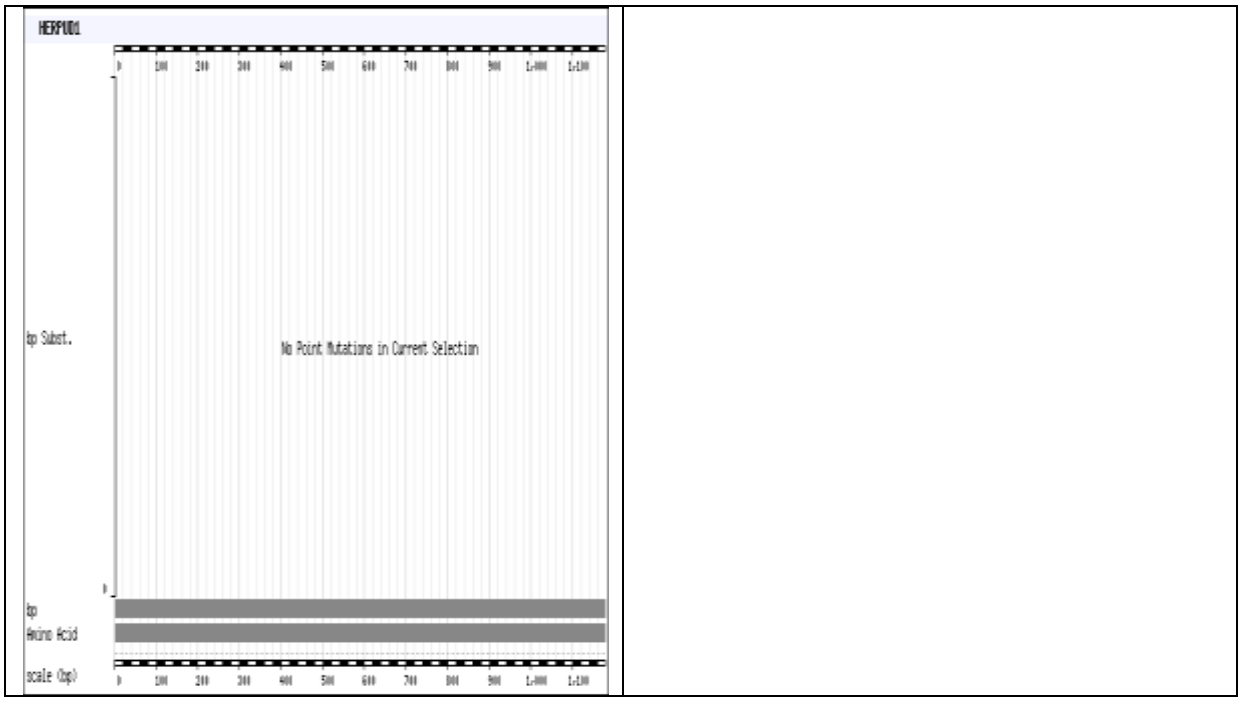
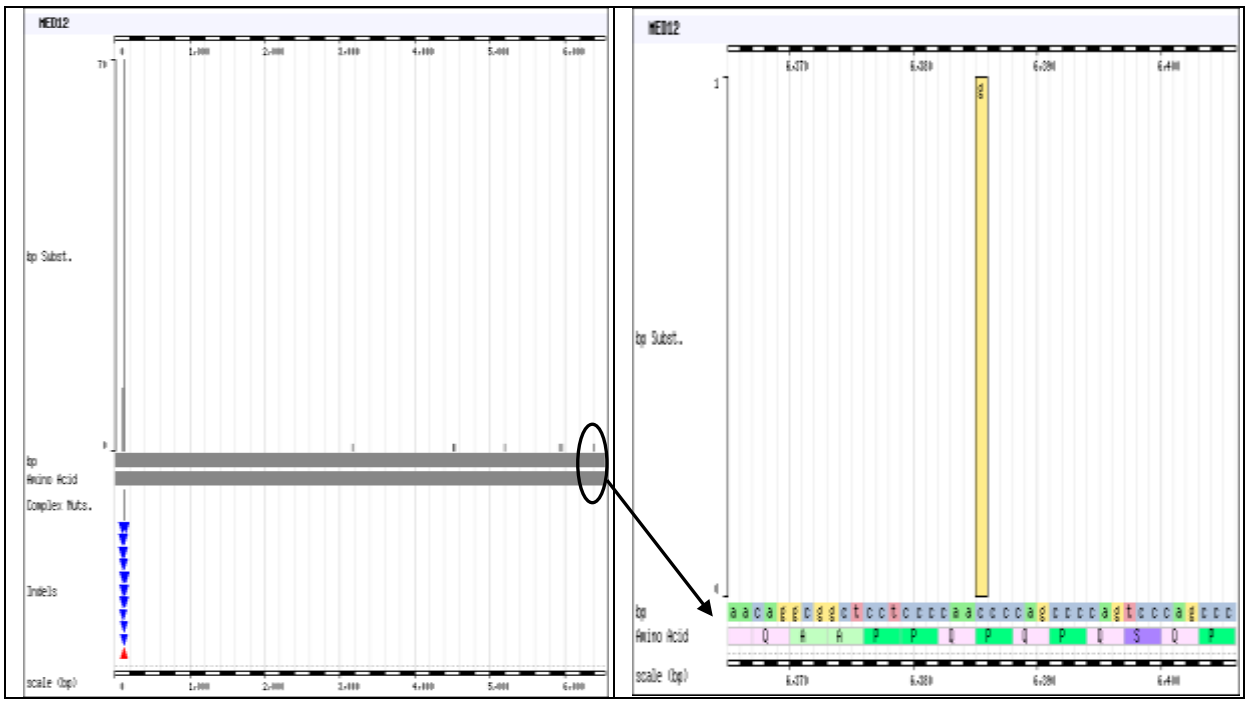
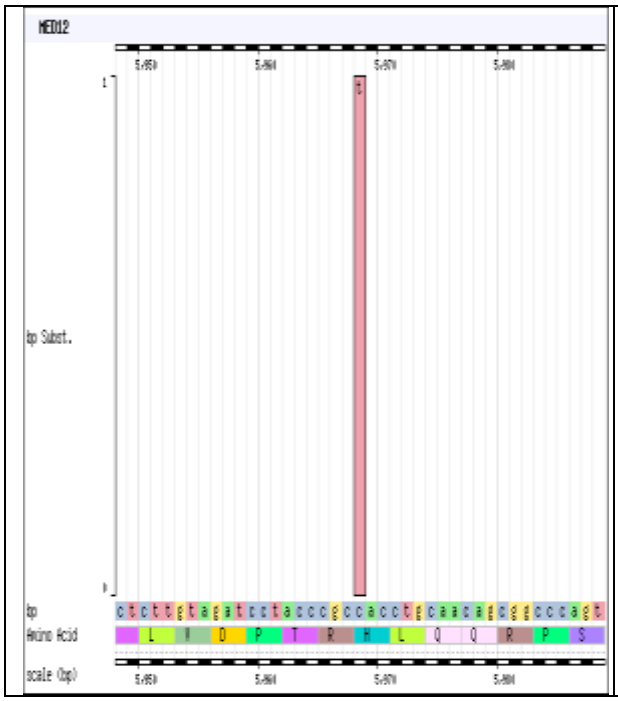
50) Entrez Gene ID 9709 = HERPUD1, homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 = AF055001



51) Entrez Gene ID 9968 = MED12, mediator complex subunit 12 = AF071309





>gi|3426319|gb|AF071309.1| Homo sapiens OPA-containing protein mRNA, complete cds

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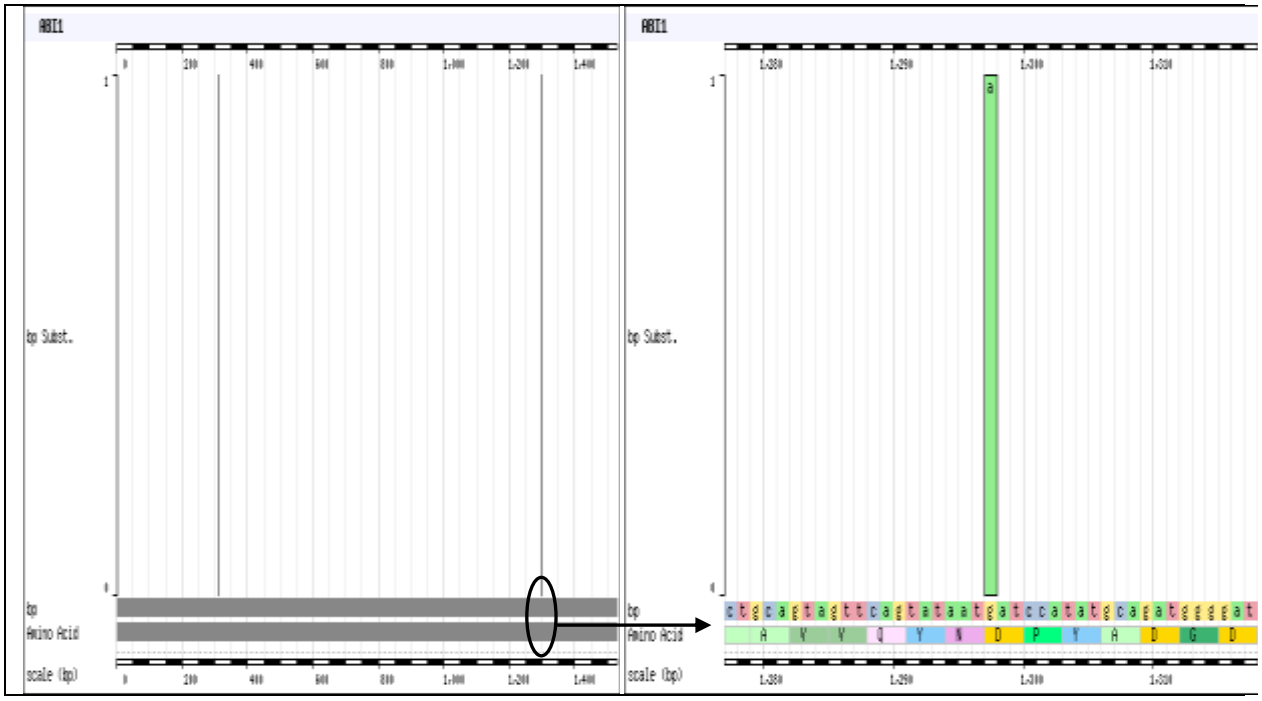
52) Entrez Gene ID 10006 = ABI1, abl-interactor 1 = AF006516



>gi|2245670|gb|AF006516.1| Homo sapiens eps8 binding protein e3B1 mRNA, complete cds

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CAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATCGAGAGTTACCAGAA
CCTGACTCGGGTGGCAGACTACTGTGAAAACAACTACATACAGGCTACAGACAAGAGAAAAGCTTTAGAG
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TACTCCAGTTGCTGGATATCCAAGCCTCTCAGCTTCGGAGAATGGAGTCTTCCATCAATCATATCTCACA
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GGAAAGAAGGTGGGTCATGTATTAATCAGTGAACAGAGATTTACCTAACCAACAGACTTGGATTGTCTTT
TGACATAATCAAAATGCAACA**CATGCACTTTGTGTGTCTCCT**CTTAATTGAAGGGAGGGCTGAGGGATGT
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CATAGTGAATGGTAAGACTAGTGCAAAACAGTTATTTCTGAAAATTAAAGACCATTATTGCTACCAAATC
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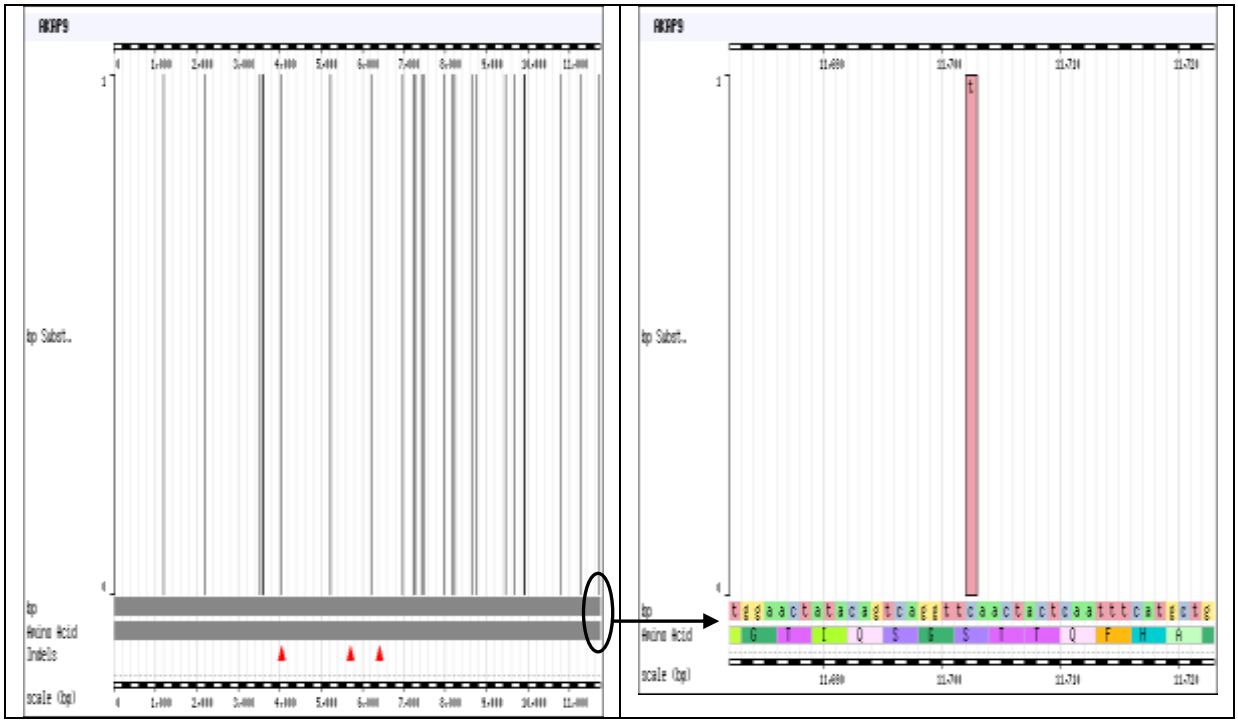
53) Entrez Gene ID 10142 = AKAP9, A kinase (PRKA) anchor protein (yotiao) 9 = BC027455



>gi|20073238|gb|BC027455.1| Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9, mRNA (cDNA clone IMAGE:4510491), with apparent retained intron
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CGGGAATTGCACGCACAGCTGCAGAGCAGTGATGGTACTGGACAGTCTCGGCCACCCTTGCCCTCAGAGG
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ACACTGCAGACAGAACAGGAGGCCAACACTGAGGGACAGAAAAAAATGCATGAGCTCCAGTCCAAAGTGG
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AACAGAAAATAGAAGGAGAAACAAAAGAATCAAACTACGCTAAATTGATTGAAATGAATGGAGGAGGAAC
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CCCCAGAAAGCCTCTGAGAGACTACAGTTTGAAACAGCAGATGATGAAGATTTCATTTGGGTTCAGGAAA
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CAAGATCAGATCTGGACTATATTAGGTCCCCTTTACCATTTCAGAATAGGTACCCAGGCACTCCAGCTGA
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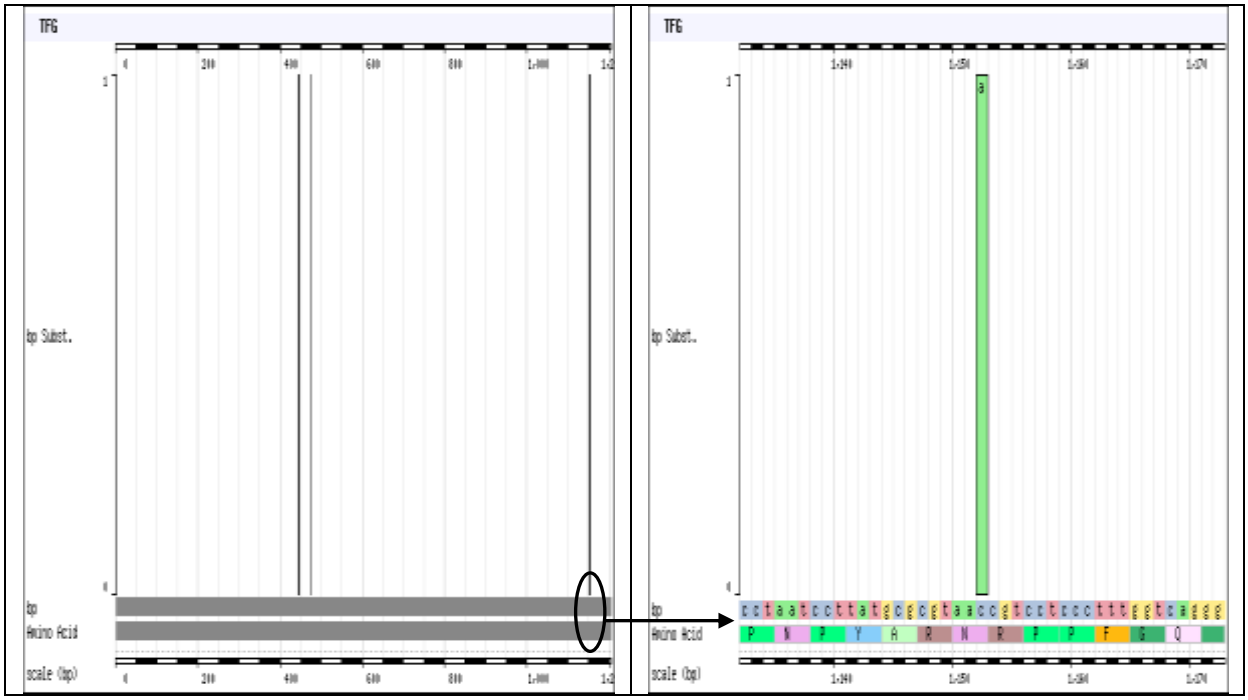
54) Entrez Gene ID 10342 = TFG, TRK-fused gene = BC001483



>gi|33876274|gb|BC001483.2| Homo sapiens TRK-fused gene, mRNA (cDNA clone MGC:1364 IMAGE:3507440), complete cds
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TGGGGAGGATATTCGGCGAATTCCTATTCATAATGAAGATATTACTTATGATGAATTAGTGCTAATGATG
CAACGAGTTTTCAGAGGAAAACTTCTGAGTAATGATGAAGTAACAATAAAGTATAAAGATGAAGATGGAG

ATCTTATAACAATTTTTGATAGTTCTGACCTTTCCTTTGCAATTCAGTGCAGTAGGATACTGAAACTGAC
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TACTCAGGTTATGGCAGCAAGTATGTCTGCTTTTGATCCTTTAAAAAACCAAGATGAAATCAATAAAAAT
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CAGGAACACCCGACAGCATTGCTTCCTCCTCCTCAGCAGCTCACCCACCAGGCGTTCAGCCACAGCAGCC
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CAAGCTATAGTCAGCAGACTGGACCTCAACAACCTCAGCAGTTCCAGGGATATGGCCAGCAACCAACTTC
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TCTTACTTGGCTTTTTACTATTAACATGATGTACTAAAGTAGAGCCCTTTGAGAATACAAGATATTATGT
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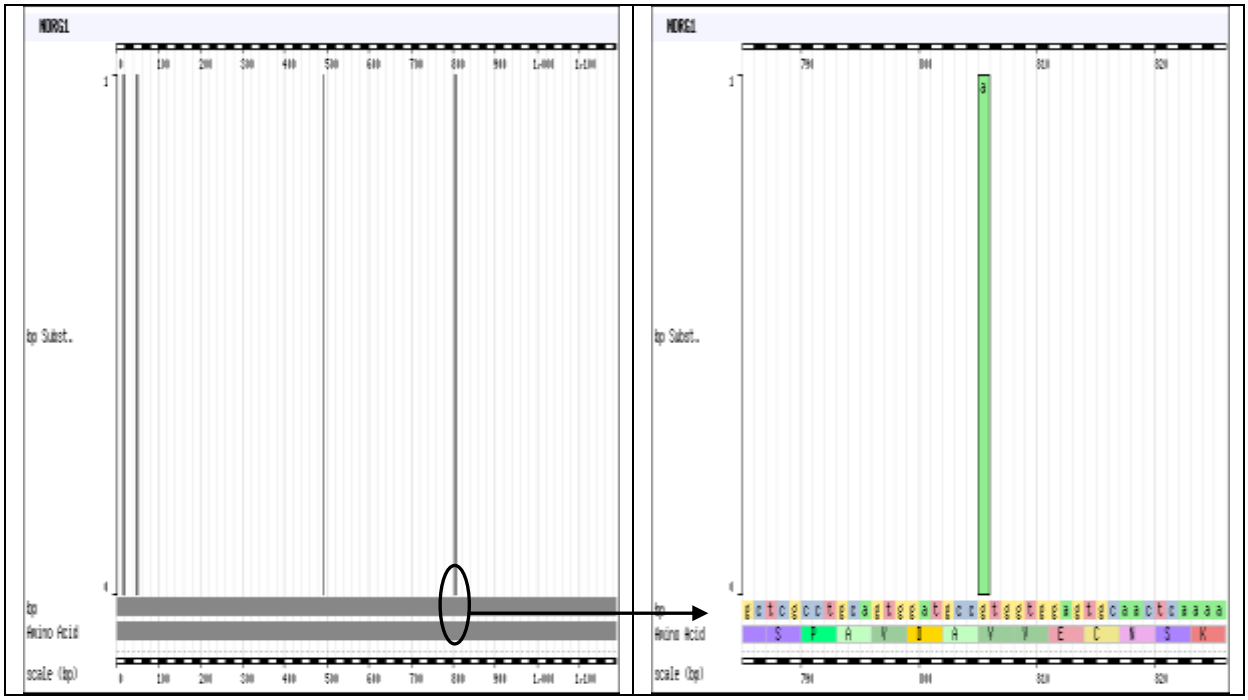
55) Entrez Gene ID 10397 = NDRG1, N-myc downstream regulated 1 = D87953



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TTGATGTCCAGGAGCAGGACATCGAGACTTTACATGGCTCTGTTCACGTCACGCTGTGTGGGACTCCCAA
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GCCTGCAGTGGATGCCGTGGTGGAGTGCAACTCAAAATTGGACCCAACAAAGACCACTCTCCTCAAGATG
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AGGGCATGGGATACATGCCCTCGGCTAGCATGACCCGCCTGATGCGGTCCCGCACAGCCTCTGGTTCCAG
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AGCGAGGGCACCCGCAGCCGCTCGCACACCAGCGAGGGGGCCCACCTGGACATCACCCCCAACTCGGGTG
CTGCTGGGAACAGCGCCGGGCCCAAGTCCATGGAGGTCTCCTGCTAGGCGGCCTGCCCAGCTGCCGCCCC
CGGACTCTGATCTCTGTAGTGGCCCCCTCCTCCCCGGCCCCTTTTCGCCCCCTGCCTGCCATACTGCGCC
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TCTTCCATTAACCAGTGGCCGGTTGCCACTCTCCTCCCCTCCCTCAGAGACACCAAACTGCCAAAAACAA
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ACAGGAAGGGGGAAAAGGTGGGATTCATGTCGAGGCTAGAGGCATTTGGAACAACAAATCTACGTAGTTA
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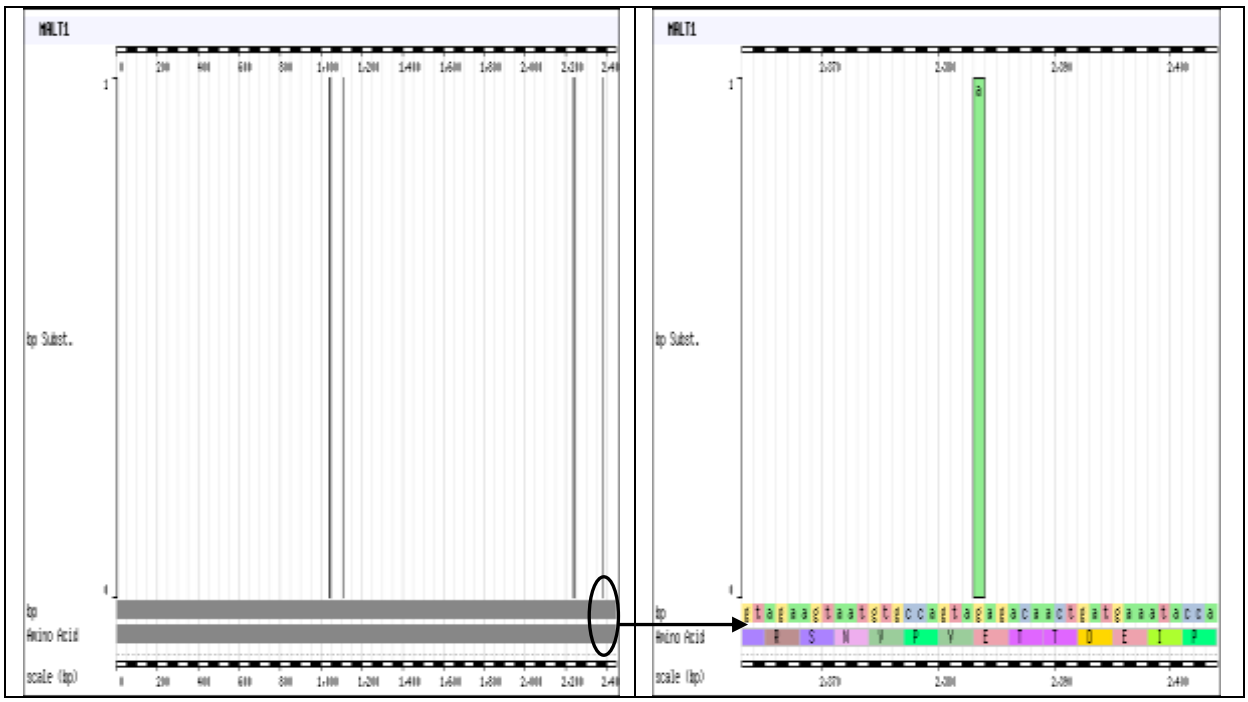
56) Entrez Gene ID 10892 = MALT1, mucosa associated lymphoid tissue lymphoma translocation gene 1 = AL137399



>gi|6807945|emb|AL137399.1| Homo sapiens mRNA; cDNA DKFZp434L132 (from clone DKFZp434L132)

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TGAGACCTCCAGAAATCTATTCCAGTATTTTTTCCACTACACAACTGCCTTCCTGACAGGTTCTGAGATA
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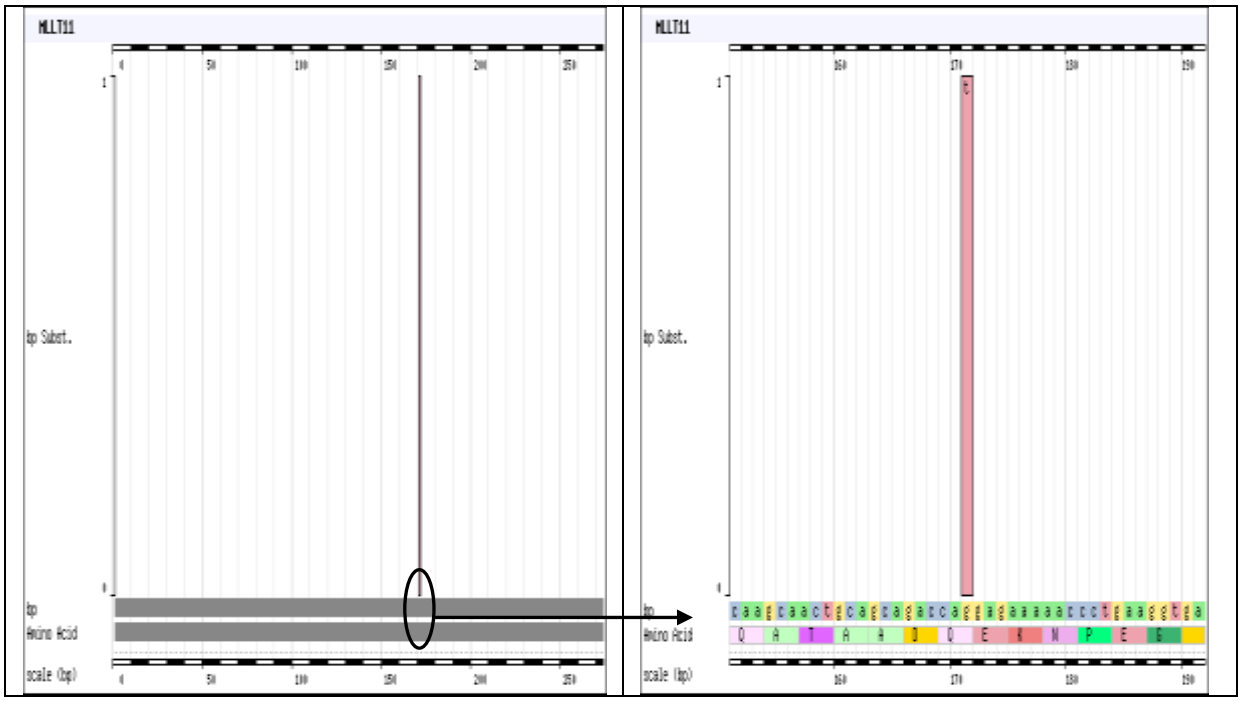
57) Entrez Gene ID 10962 = MLLT11, myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11 = BC006471



>gi|34782804|gb|BC006471.2| Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11, mRNA (cDNA clone MGC:4013 IMAGE:2823316), complete cds
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GTGGGTTGAAAACTCTAGCTAAAGAAAGTTATCAAATCTTAA**CATGCATTCCTACTATTATGA**TAGTTTT

TAAGGTTTCAATTCAATCTTCTGAACGGCATAAGTCCTATTTTAGCCTTACCTCCTGCATTTGCAATACG
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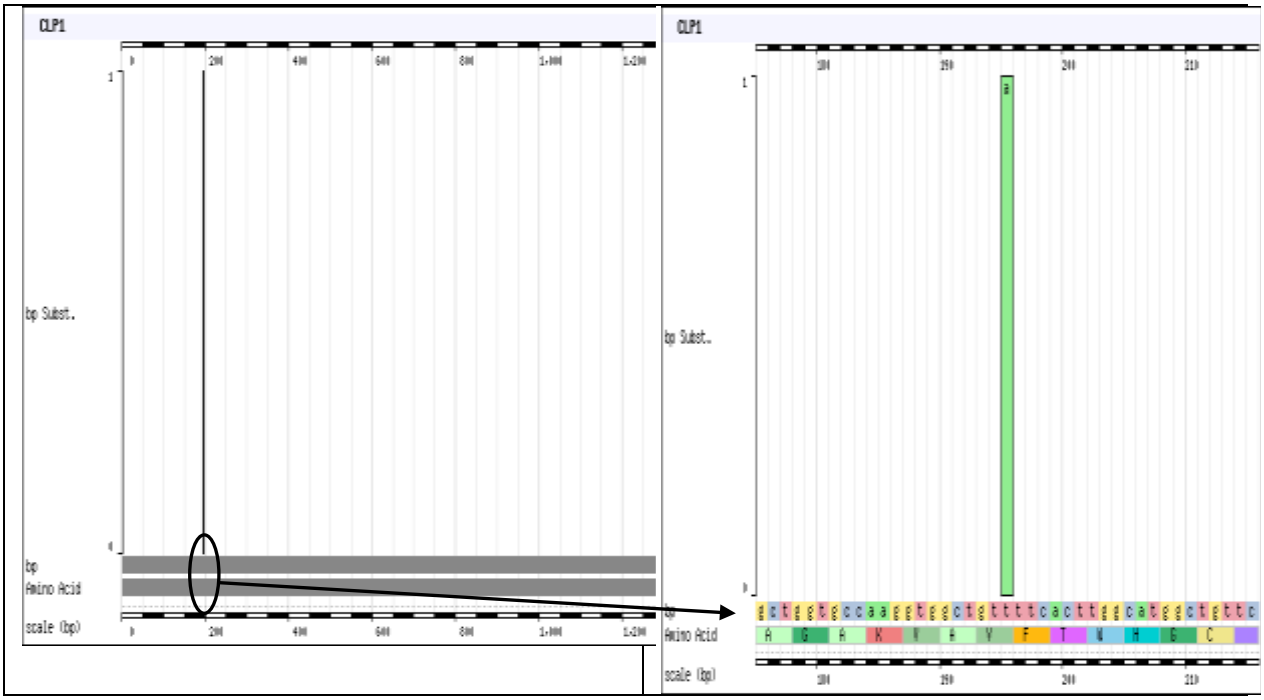
58) Entrez Gene ID 10978 = CLP1, cleavage and polyadenylation factor I subunit, homolog (S. cerevisiae) = BC000446



>gi|12653352|gb|BC000446.1| Homo sapiens CLP1, cleavage and polyadenylation factor I subunit, homolog (S. cerevisiae), mRNA (cDNA clone MGC:8442 IMAGE:2821321), complete cds
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TTCTGAGTTTACCTGTTGGGCTCCTGGCTGCGCAGGCACAGCAGCTACACAGAAGAGATGGGAGAAGAGG
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AGCCTTGGAACAGATGCGGAGGCAAGCGGAAAAGGAAGAAGAGCGAGGTCCCCGAGTGATGGTAGTGGGC
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CCACTTATGTGGAGCTGGATGTGGGCCAGGGTTCTGTGTCCATCCCTGGTACCATGGGGGCCCTCTACAT
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TGCTACTATGTGGTTTTTAAAAAATCAATGCTTTATATTCCATATGTGGTTCTTACCCATTTATCTAGGA
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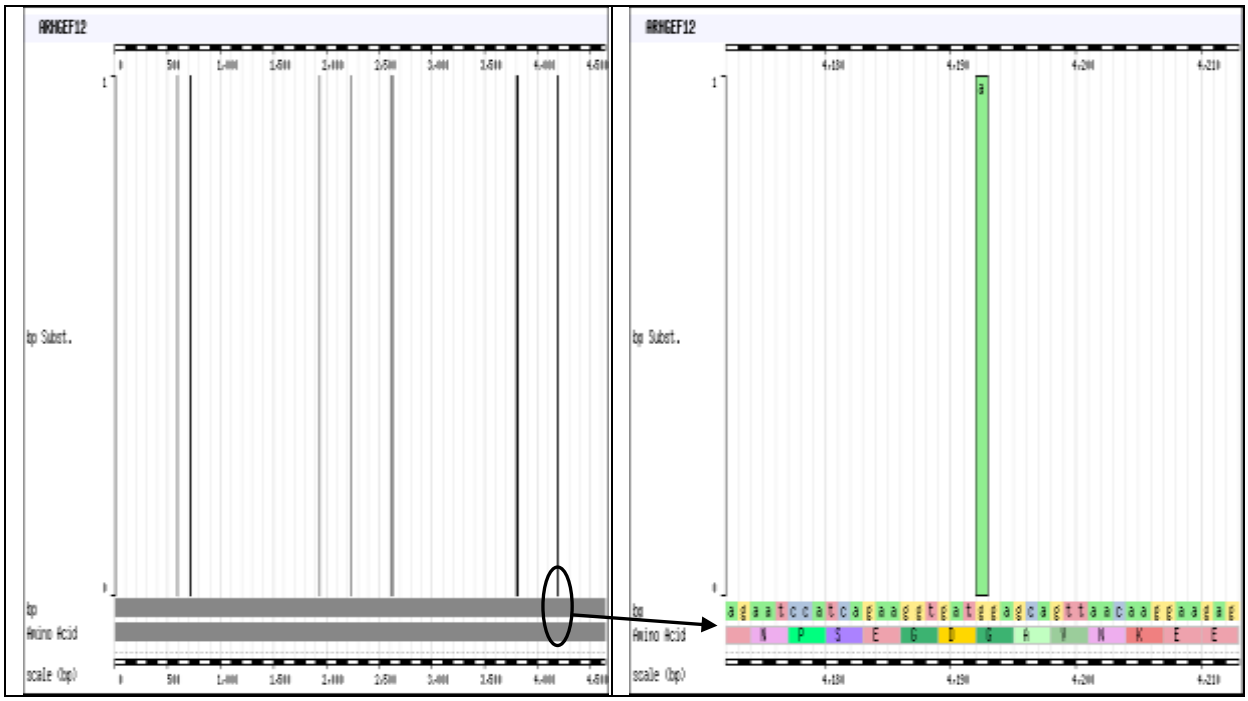
59) Entrez Gene ID 23365 = ARHGEF12, Rho guanine nucleotide exchange factor (GEF) 12 = BC031784



>gi|22749563|gb|BC031784.1| Homo sapiens Rho guanine nucleotide exchange factor (GEF) 12, mRNA (cDNA clone IMAGE:4538083), with apparent retained intron

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TTTTGAATGTTCTTTTTATCTACCGACCTAACTTCTCTTTTCCCTCCCAACTTGGCCTCCCACACGTTCC
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TGTACCTTTGTAAAATAGCTCTTTTATGAATTAGCTGATAAGGCTGTATGTTTCTGGAACAAAATATTGG

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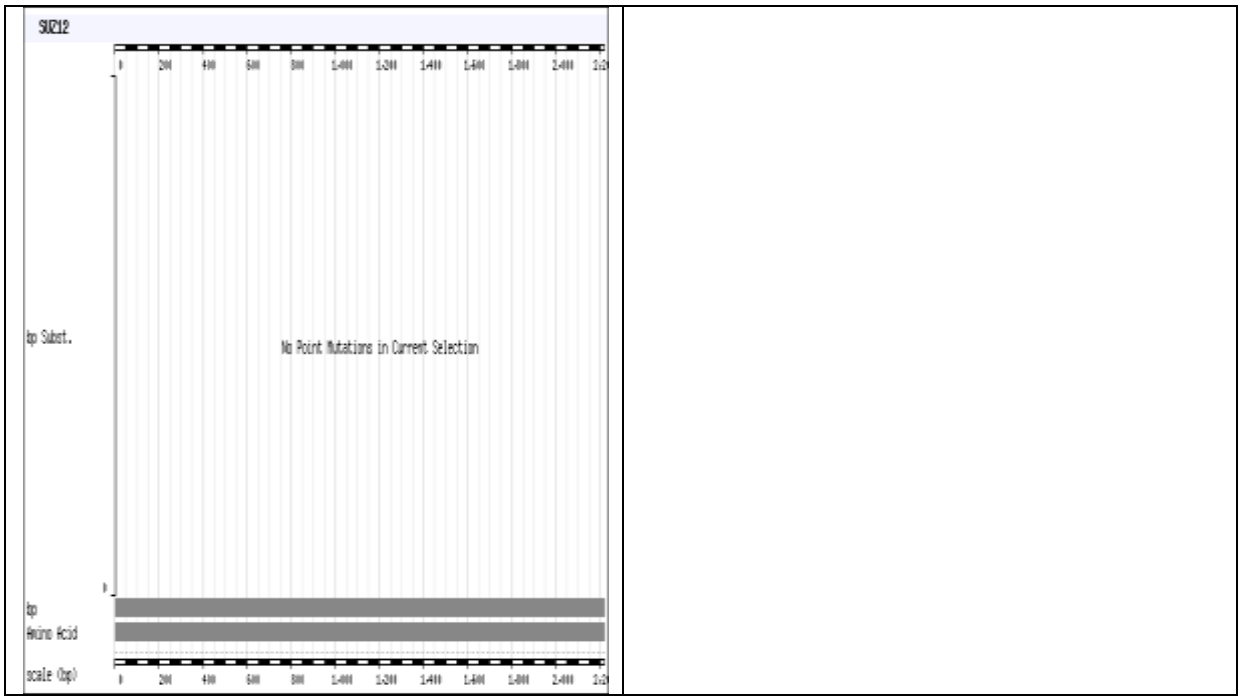
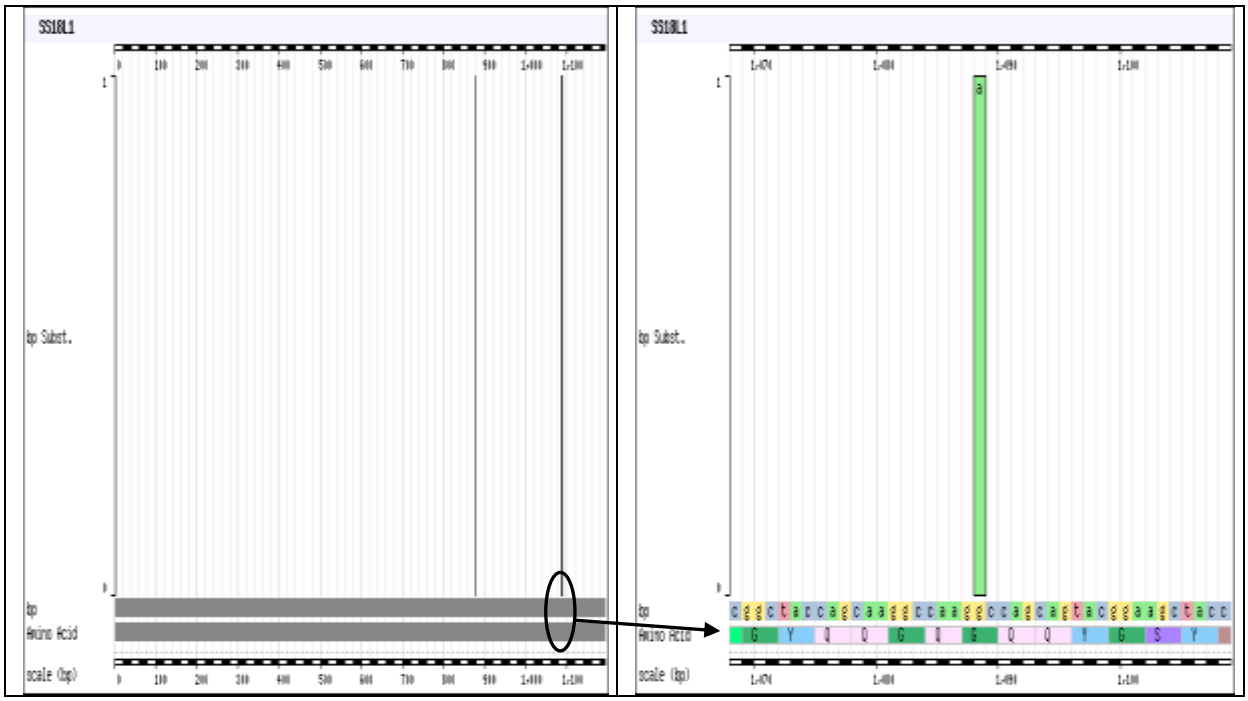
60) Entrez Gene ID 23512 = SUZ12, suppressor of zeste 12 homolog (Drosophila) = BC018583



61) Entrez Gene ID 26039 = SS18L1, synovial sarcoma translocation gene on chromosome 18-like 1 = BC034494



>gi|34192441|gb|BC034494.2| Homo sapiens synovial sarcoma translocation gene on chromosome 18-like 1, mRNA (cDNA clone MGC:26711 IMAGE:4823298), complete cds

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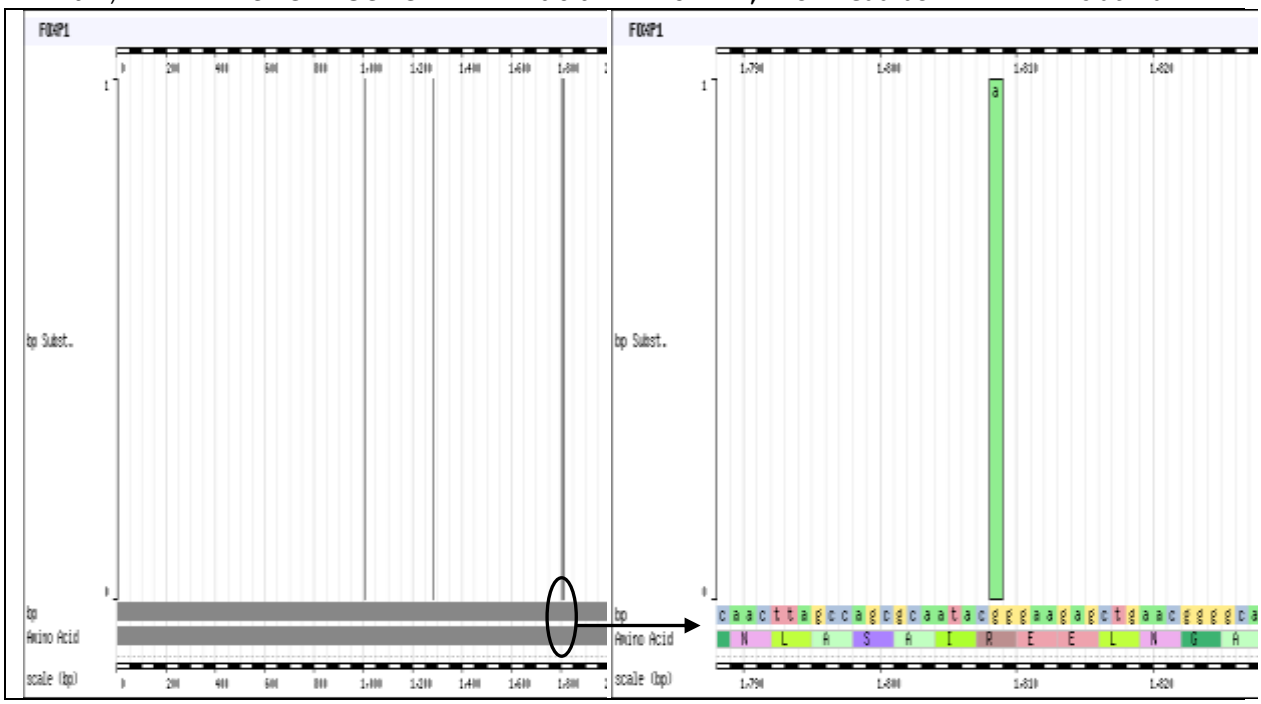
62) Entrez Gene ID 27086 = FOXP1, forkhead box P1 = AF250920



>gi|18032255|gb|AF250920.1| Homo sapiens 12CC4 mRNA, complete cds

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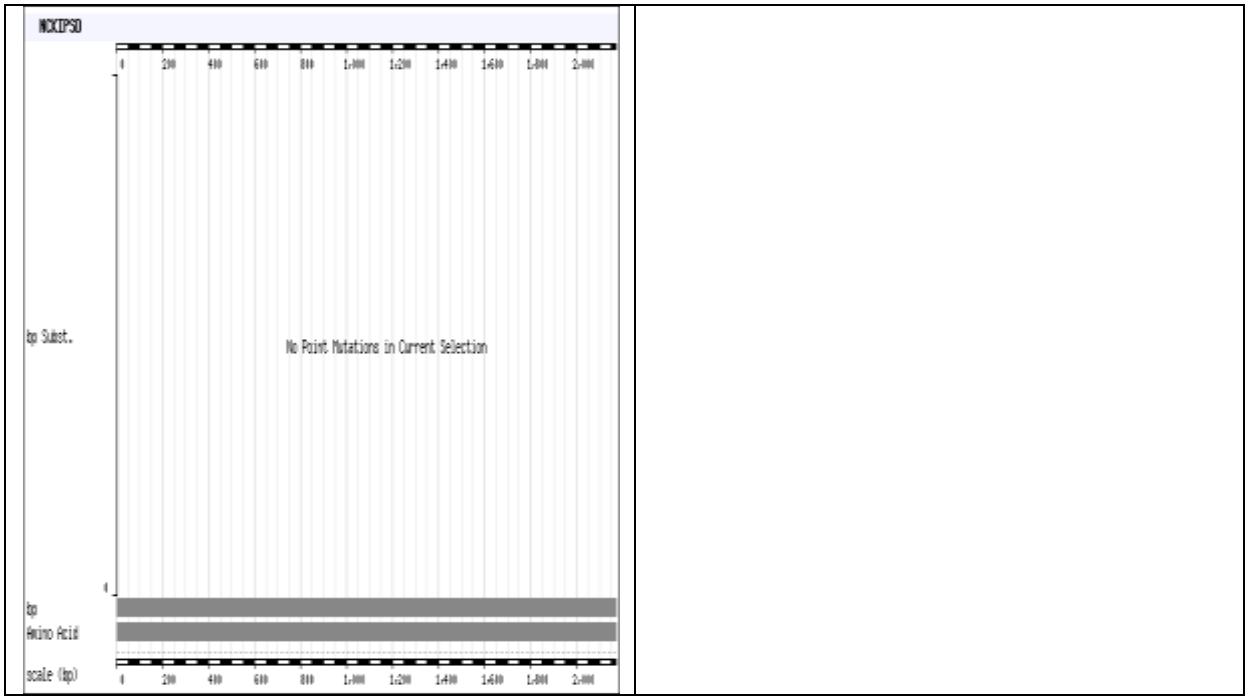
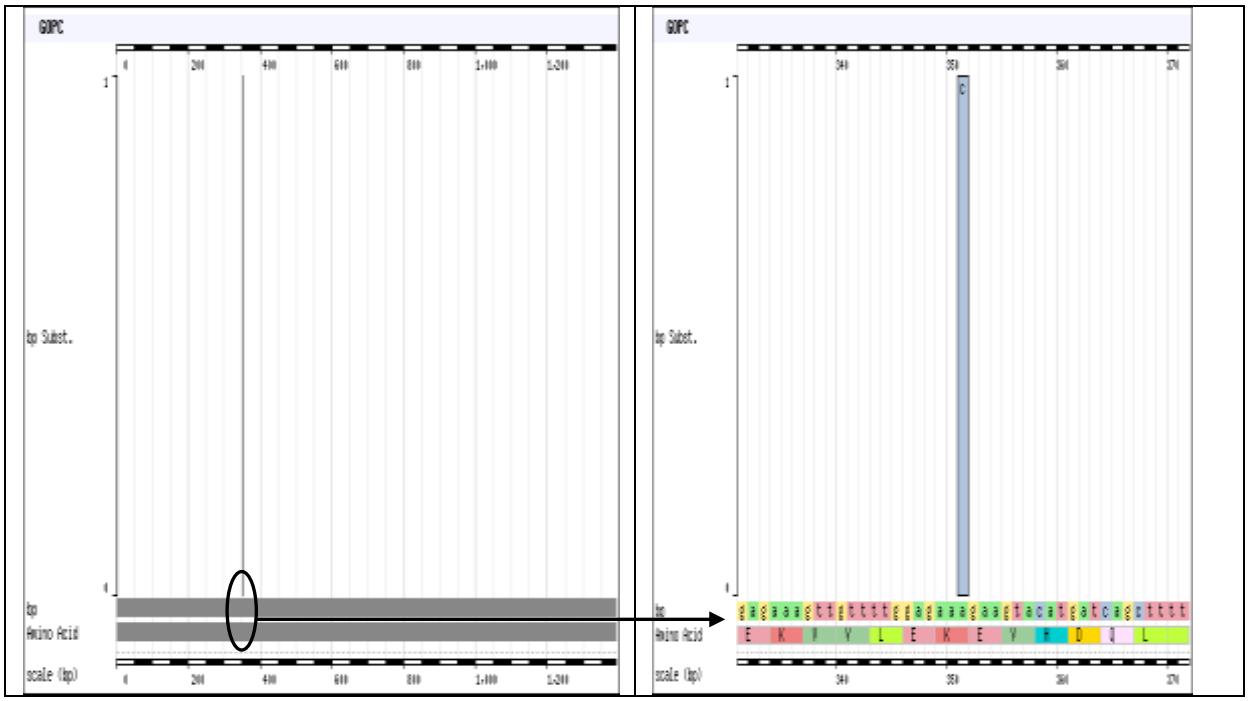
63) Entrez Gene ID 51517 = NCKIPSD, NCK interacting protein with SH3 domain = AF303581



64) Entrez Gene ID 57120 = GOPC, golgi-associated PDZ and coiled-coil motif containing = AY033606



>gi|14289128|gb|AY033606.1| Homo sapiens fused in glioblastoma mRNA, complete cds

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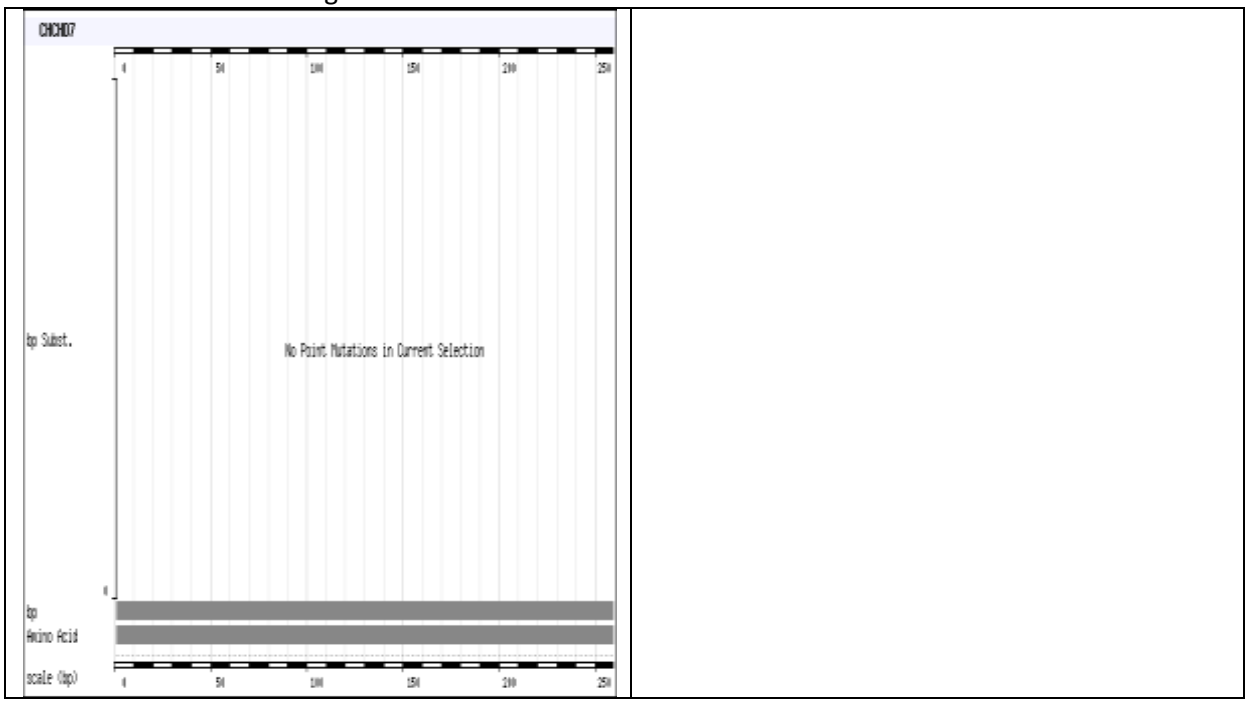
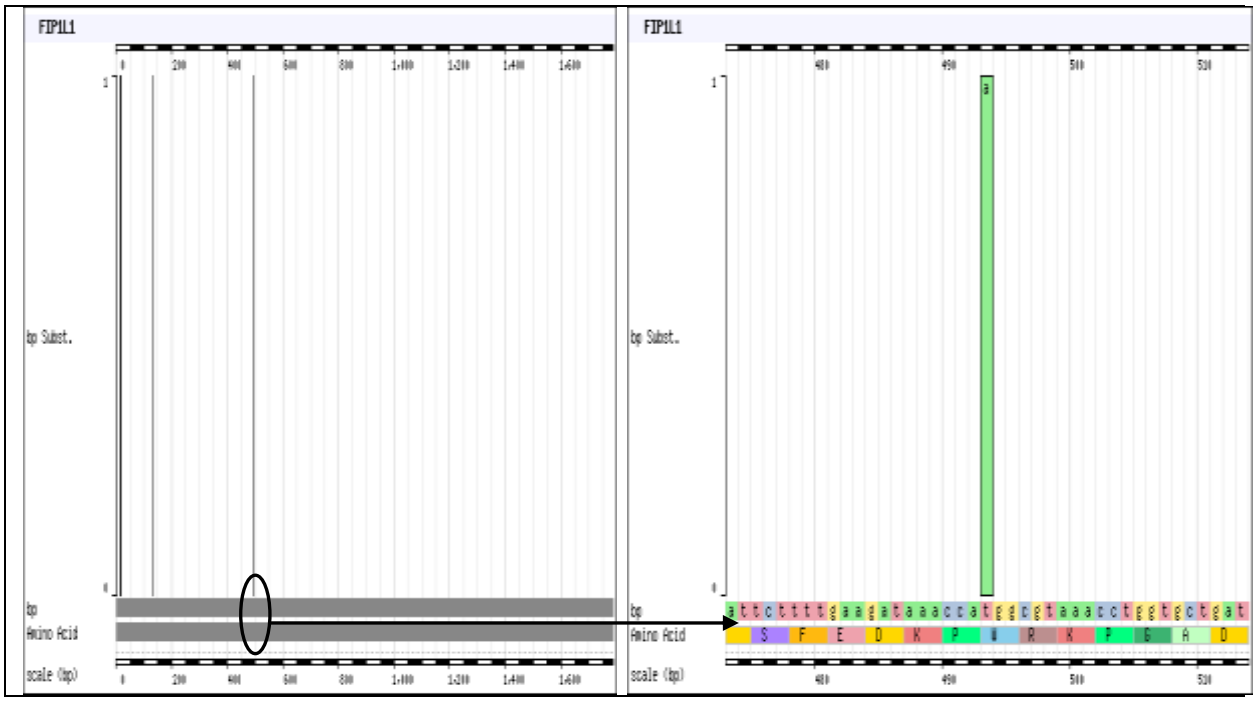
65) Entrez Gene ID 79145 = CHCHD7, coiled-coil-helix-coiled-coil-helix domain containing 7 = AY070434



66) Entrez Gene ID 81608 = FIP1L1, FIP1 like 1 (S. cerevisiae) = BC026724



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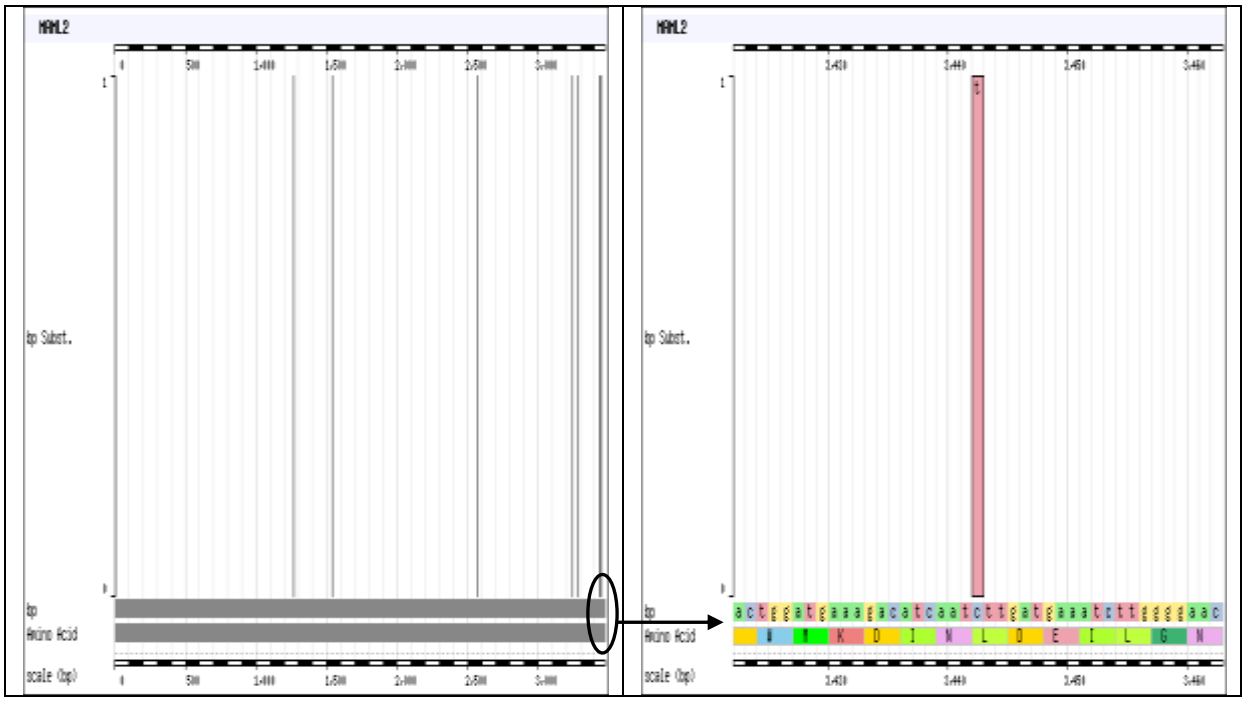
67) Entrez Gene ID 84441 = MAML2, mastermind-like 2 (Drosophila) = CR627398



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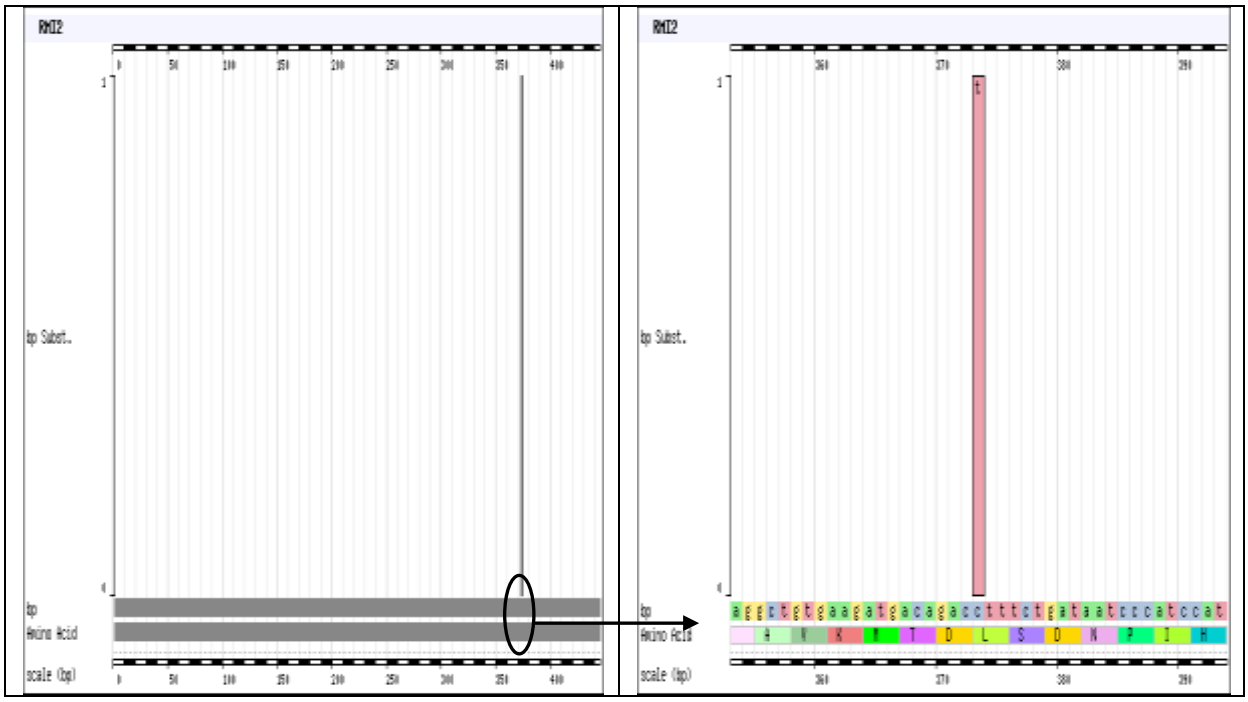
68) Entrez Gene ID 116028 = RMI2, RecQ mediated genome instability 2, homolog (S. cerevisiae) = BC013040



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