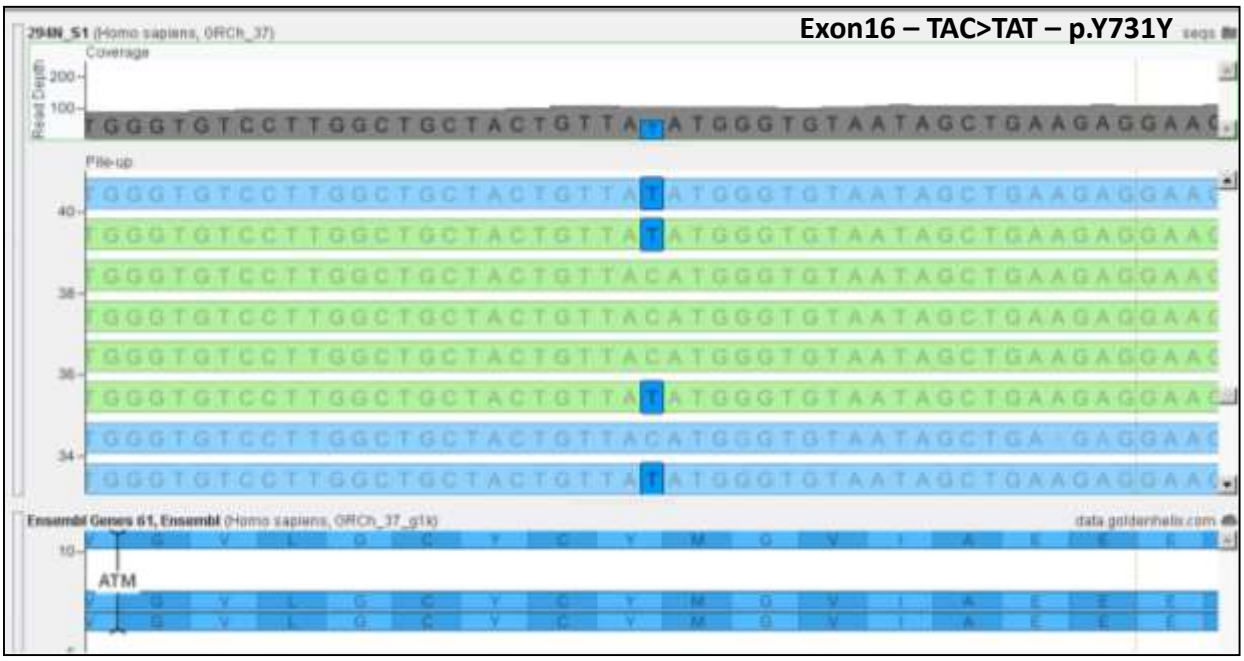
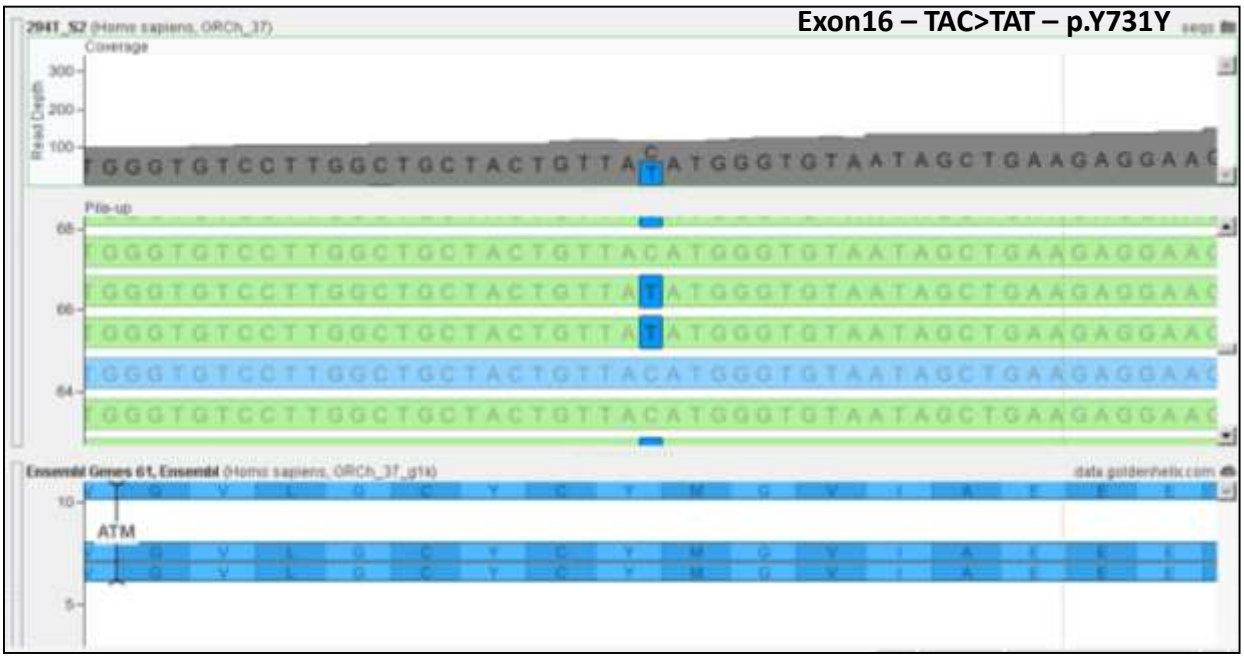
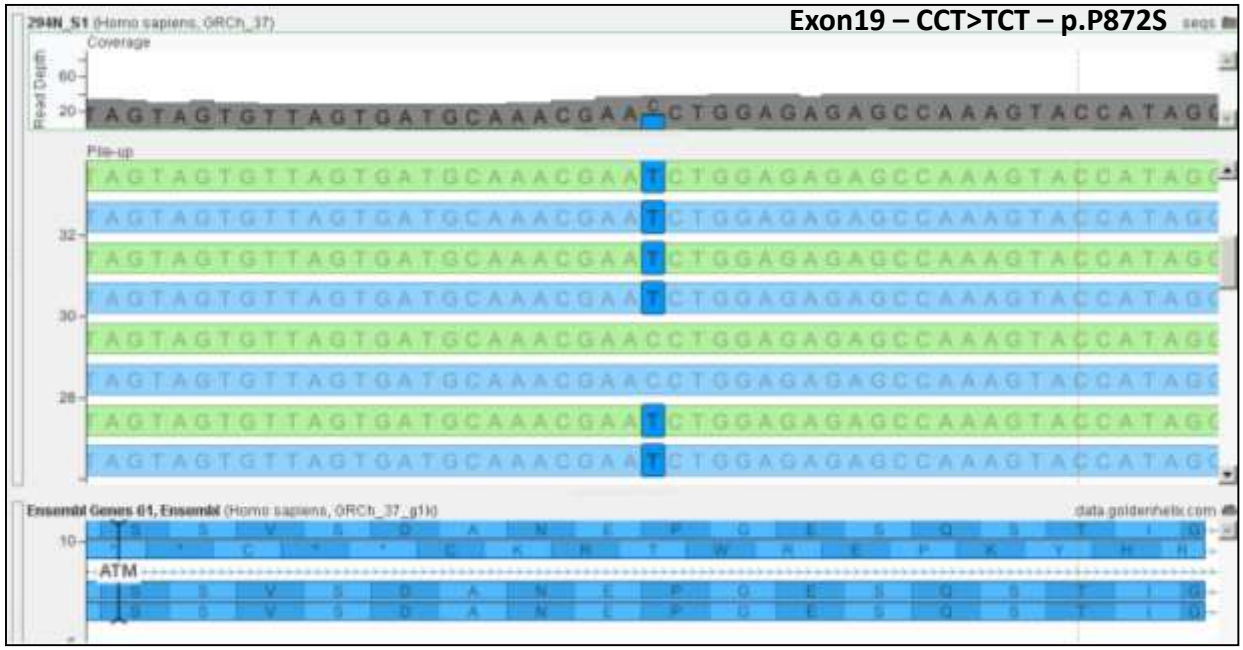
Summary of the ATM variants observed by exome sequencing analysis in Tumor and Normal tissue of one breast cancer patient (M294)

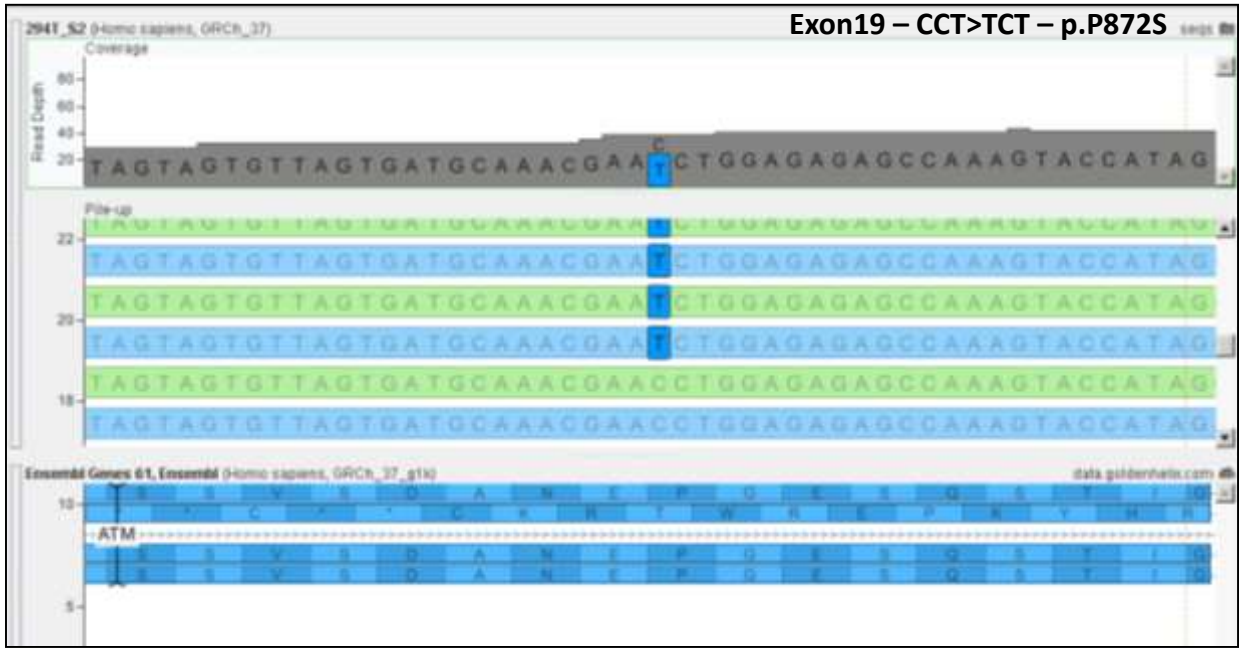
Position Exon/Intron	Nucleotide Change	Residue	N. altered reads/total N. of reads		Genomic Coordinate
			294N	294T	
Intron 7-8	delT		21/98	14/92	108114662
Intron 8-9	delT		13/15	21/21	108115361
Intron 13-14	G>A		26/54	19/32	108123290
16	TAC>TAT	p.Y731Y	60/104	61/116	108127010
19	CCT>TCT	p.P872S	16/38	25/39	108138045
Intron 19-20	delT		11/23	12/30	108139043
20	CTA>CTG	p.L895L	9/24	9/29	108139183
Intron 22-23	C>T		81/154	55/101	108143182
Intron 25-26	insA		40/80	39/76	108151707
intron 36-37	T>C		20/ 45	37/ 53	108172225
42	AAT>AGT	p.N1983S	198/198	125/125	108183167
43	GGA>AGA	p.G2023R	54/98	31/57	108186610
Intron 43-44	T>C		37/89	20/ 46	108186653
Intron 47-48	G>T		4/8	8/17	108192159
Intron 48-49	G>C		4/ 8	8 /17	108196509
Intron 55-56	G>A		69/69	51/51	108203769
Intron 56-57	INS T		47/106	37/ 85	108204717
Intron 59-60	A>G		13/21	8/ 18	108214176
Intron 61-62	T>C		30/63	17/ 29	108218196
Intron 62-63	C>T		42/79	38/ 61	108225483
Intron 63-64	A>G		15/30	21/ 31	108225661

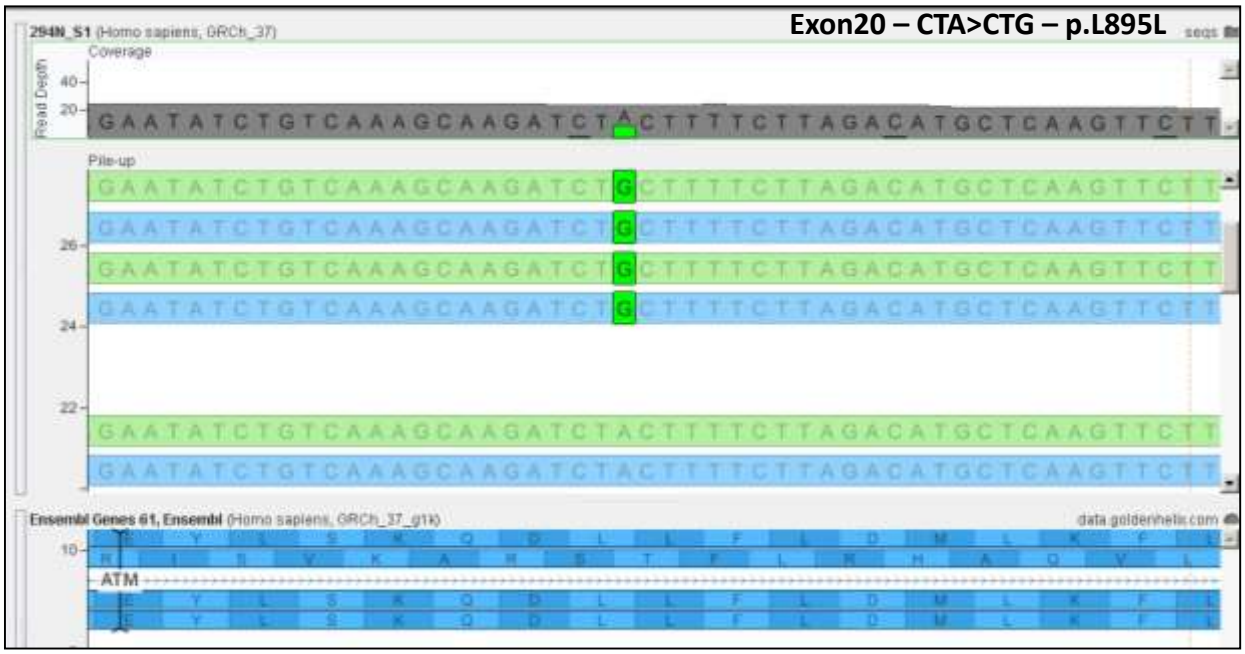
Chromosomal coordinates of the ATM variants observed by exome sequencing analysis of Tumor and Normal tissues from one breast cancer patient (M294). The results were analyzed using the Golden Helix GenomeBrowser (www.goldenhelix.com/GenomeBrowse/)

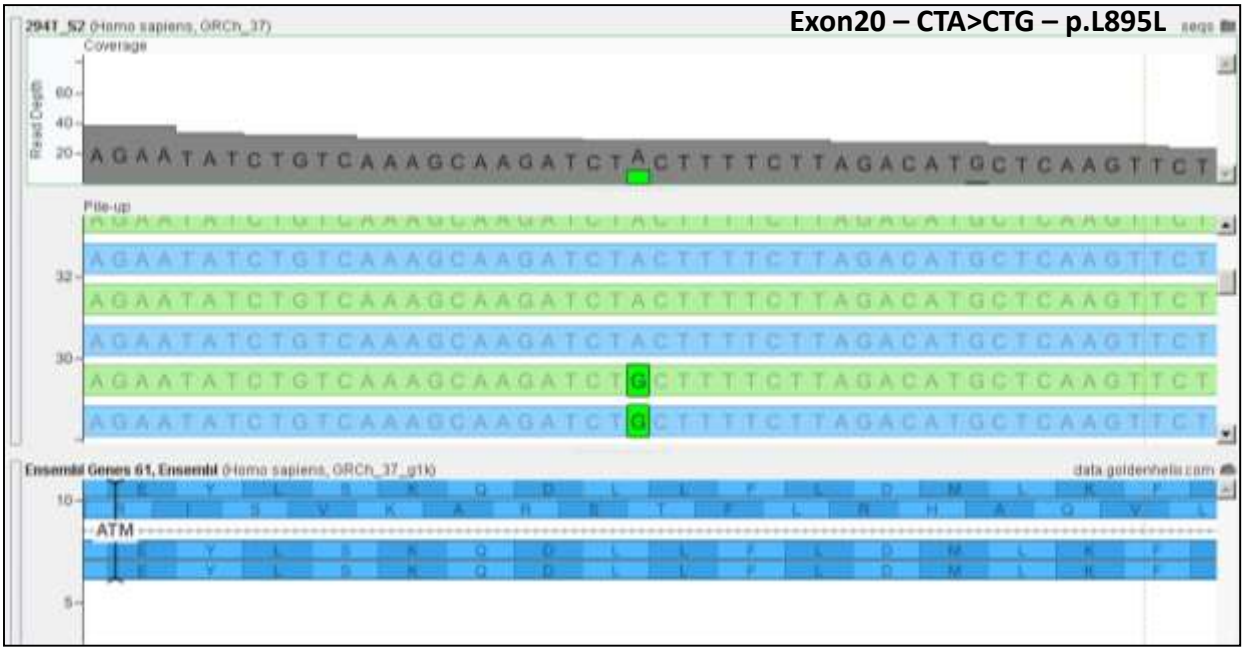




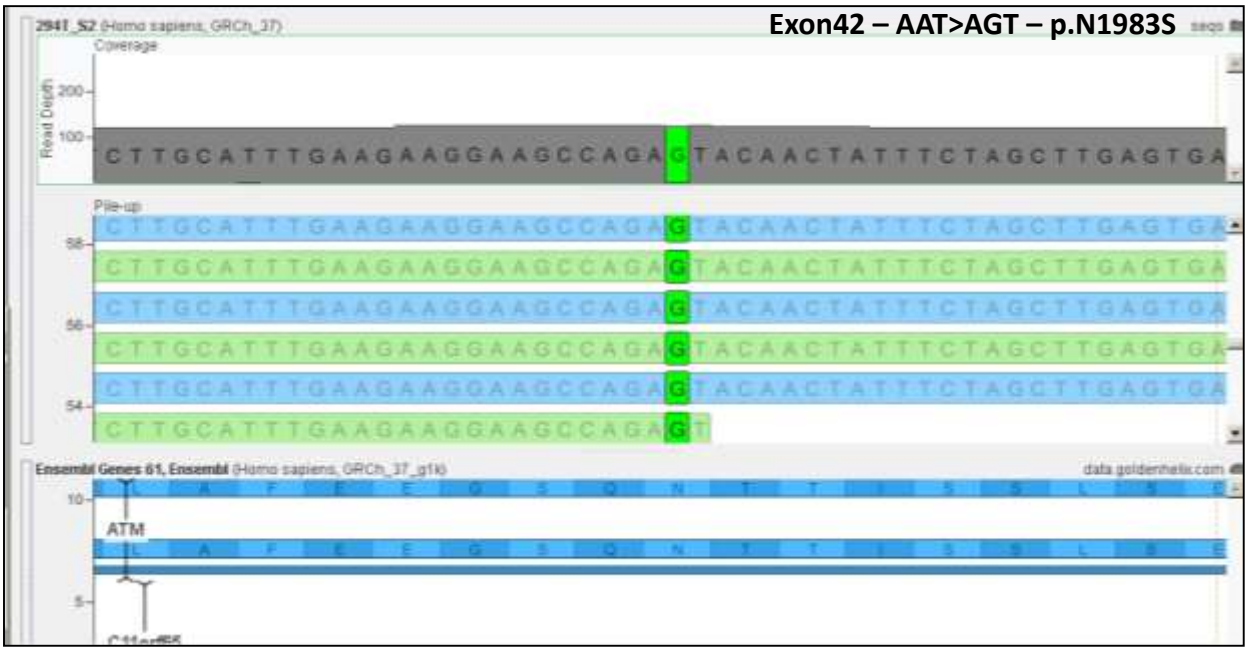

Exon19 – CCT>TCT – p.P872S
Coverage
Read Depth
Pile-up
ATM

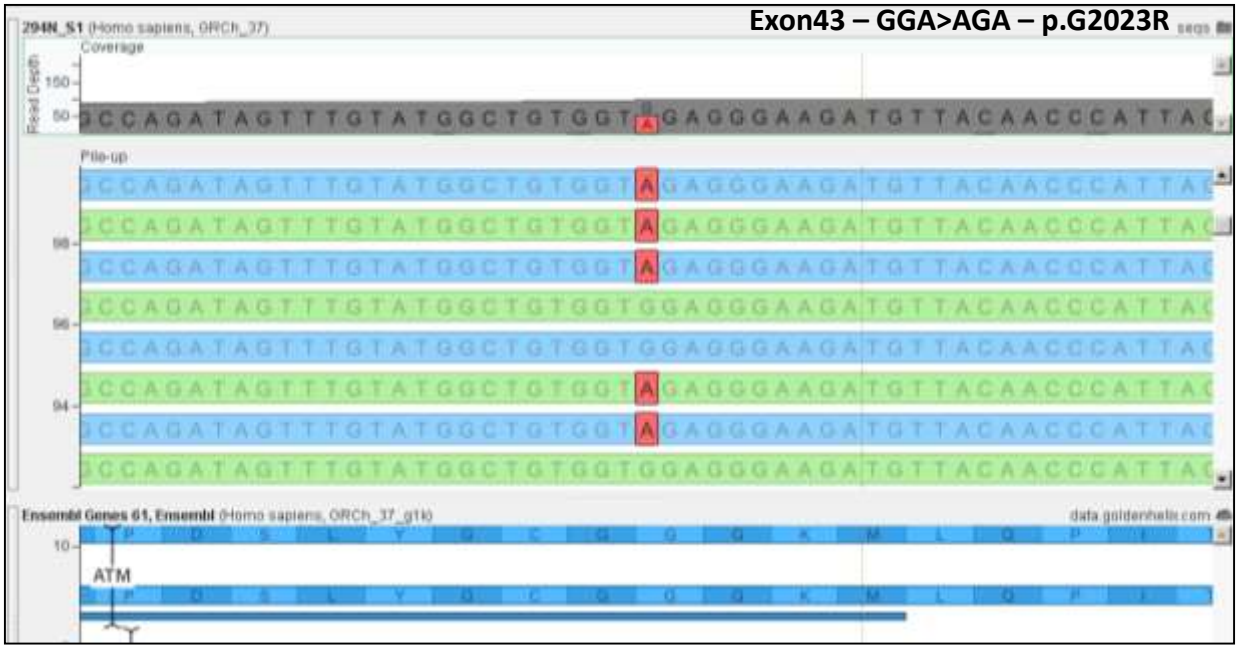

Exon19 – CCT>TCT – p.P872S
Coverage
Read Depth
Pile-up
ATM

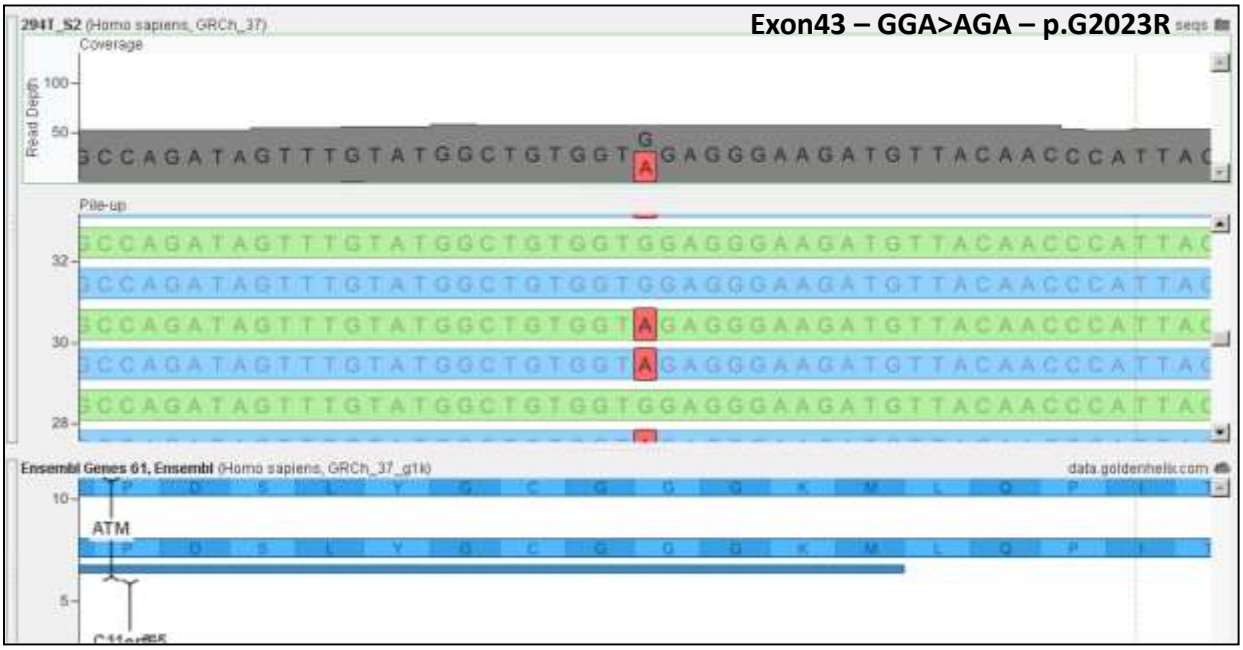

Exon20 – CTA>CTG – p.L895L
294N_S1 (Homo sapiens, GRCh_37)
Coverage
Read Depth
Pile-up
Ensembl Genes 61, Ensembl (Homo sapiens, GRCh_37_g1k)
data.goldenhelix.com
ATM


Exon20 – CTA>CTG – p.L895L
2941_S2 (Homo sapiens, GRCh_37)
Coverage
Read Depth
Pile-up
Ensembl Genes 61, Ensembl (Homo sapiens, GRCh_37_g1k)
data.goldenhelix.com
ATM


Exon42 – AAT>AGT – p.N1983S
294N_S1 (Homo sapiens, GRCh_37)
Coverage
Read Depth
Pile-up
Ensembl Genes 61, Ensembl (Homo sapiens, GRCh_37_g1k)
data.goldenhelix.com
ATM


Exon42 – AAT>AGT – p.N1983S
294T_S2 (Homo sapiens, GRCh_37)
Coverage
Read Depth
Pile-up
Ensembl Genes 61, Ensembl (Homo sapiens, GRCh_37_g1k)
data.goldenhelix.com
ATM


294N_S1 (Homo sapiens, GRCh_37)
Exon43 – GGA>AGA – p.G2023R
Coverage
Read Depth
Pile-up
Ensembl Genes 61, Ensembl (Homo sapiens, GRCh_37_g1k)
data.goldenhelix.com
ATM


294T_S2 (Homo sapiens, GRCh_37)
Exon43 – GGA>AGA – p.G2023R
Coverage
Read Depth
Pile-up
Ensembl Genes 61, Ensembl (Homo sapiens, GRCh_37_g1k)
data.goldenhelix.com
ATM