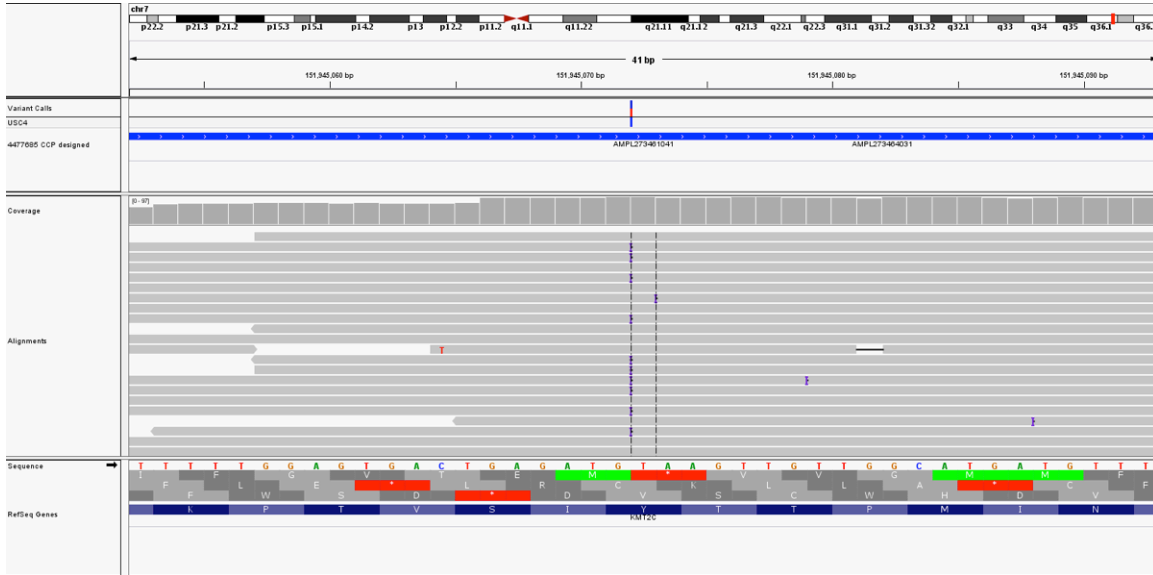


Supplemental Table I: Sequencing runs and coverage across the 4 samples included in the case study. USC1 had an increased Transversion ratio as previously described.

Sample	# Aligned Reads	Mean Coverage	% On Target	% Targets >100X	# Synonymous	# Missense	# Nonsense	# Indels	Transition: Transversion Ratio*
USC 1	9589603	387	88.9%	73.6%	870	939	65	401	4.33
USC 2	13863798	594	98.3%	84.3%	378	120	2	478	2.51
USC 3	11622719	477	90.1%	67.9%	345	129	6	414	2.69
USC 4	19517905	829	95.0%	86.6%	446	135	2	567	2.91



Supplemental Figure 2: Representative screenshot demonstrating an inserted tyrosine in exon 14 of the MLL3 gene is outside adjacent homopolymer sequences from USC4.