

Table SI. Summarized results of CGP of anaplastic thyroid cancer.

	Case no.													
Gene abnormality ^a	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>BRAF</i>	v600E	v600E	v600E	v600E	v600E	v600E	v600E	0	0	0	0	0	0	0
<i>NRAS</i>	0	0	0	0	0	0	0	0	Q61R	Q61R	Q61R	Q61R	0	0
<i>RET_PTC</i>	0	0	0	0	0	0	0	CCDC6 fusion	0	0	0	0	0	0
<i>TERT</i>	124C>T	124C>T	124C>T	124C>T	124C>T	0	124C>T	124C>T	124C>T	124C>T	124C>T	124C>T	0	124C>T
<i>TP53</i>	0	0	0	Y163S	R280K	E224, E285K	C242fs5	H179R	R333fs12	RA	R209fs6	E258K	Y220C	0
<i>PIK3CA</i>	0	0	E542K	0	0	0	H1047L	0	0	0	0	E542K	0	0
<i>CDKN2A/2B</i>	0	0	Loss/loss	Loss/loss	0	0	0	Loss/-	0	0	0	0	Loss/loss	0
<i>FGF</i>	0	0	0	0	0	12amp	0	0	0	0	0	0	3,4, 12,19 amp	0
<i>TMBhigh</i>	0	NA	11Muts/Mb	0	0	0	0	0	0	0	0	0	0	0
<i>PTEN</i>	R15del	0	0	0	0	0	0	0	0	0	0	0	0	0
Others		<i>NF2</i> , <i>SDHA</i> , <i>Y144</i> ,	<i>CHEX2</i> , <i>EP300</i> , <i>MTAP</i> , <i>NSD3</i> , <i>RRP1</i>	<i>MTAP</i>	<i>KDM6A</i> , <i>NBN</i>	<i>NF2</i> , <i>MSH3</i> , <i>SOX2</i> ,9	<i>DMNT3A</i>	<i>CBL</i> , <i>DNMT3A</i>	<i>EPHA3</i>	<i>SF3B1</i>	<i>QTI</i>		<i>CCND1</i> , <i>NF2</i> , <i>SMARCA4</i> , <i>STKIT</i>	<i>EGFR</i> , <i>NFE2L2</i> , <i>PDGFRB</i>

^aGene abnormalities i.e. variation or mutation, etc. in the 10 most frequent genes. 0, no abnormality; ND, not detectable; RA, rearrangement; amp, amplification; CGP, comprehensive genomic profiling. The raw data for rearrangement and amplification are omitted due to the sheer volume of data.