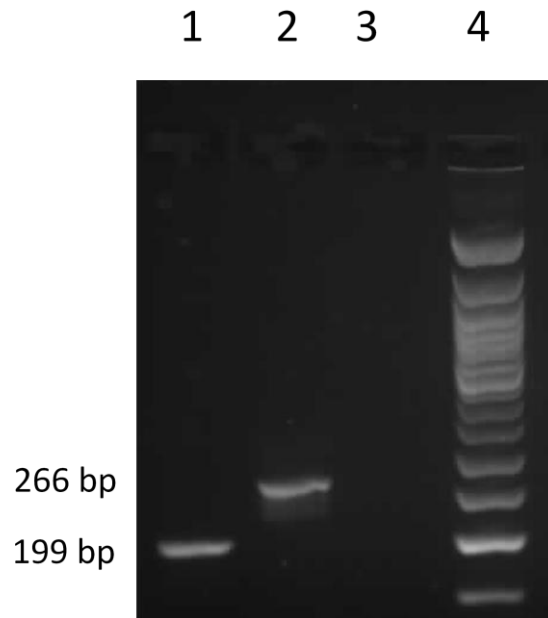


Additional File 4 – Expression profile of *ADNP-C20orf132* gene fusion

A.

Exon-exon RT-PCR of cDNA in primary tumor T50 shows expression of both *ADNP-C20orf132* transcript isoforms. Primers were designed to target the exons flanking the fusion boundary.

Lane 1 illustrates the expression of a cDNA fragment (199 bp) featuring the fusion junction joining exon 1 of *ADNP* and exon 17 of *C20orf132*. Similarly, lane 2 illustrates the expression of a cDNA fragment (266 bp) featuring the fusion junction joining exon 2 of *ADNP* and exon 17 of *C20orf132*. Lane 2 is a negative water control and lane 4 is a 50 bp ladder control.



B.

Expression plots of *ADNP* and *C20orf132* as measured by the $\log_2$ FC between the RPKM values of each exon in primary tumor T50 versus the average of all other *ADNP*-*C20orf132* - negative samples. The ordering of the exons on both plots is reversed to match the reverse strand orientation of both genes (i.e. 3' – 5').

