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| Supplementary Table S2. Germline mutations of the patient.  |
| Gene name | Transcript  | Base change | Amino acid change | Mutation position | Genotype | Pathogenicity |
| ALK  | NM\_004304.4  | c.3035C>T  | p.T1012M  | exon18  | Heterozygous | Benign |
| BRCA2 | NM\_000059.3  | c.1744A>C  | p.T582P  | exon10  | Heterozygous | Benign |
| BRIP1  | NM\_032043.2  | c.587A>G  | p.N196S  | exon6  | Heterozygous | Benign |
| FANCA  | NM\_000135.2  | c.2981+4dupA  |  | intron30  | Heterozygous | Variant of uncertain significance  |
| FANCC  | NM\_000136.2  | c.973G>A  | p.A325T  | exon10  | Heterozygous | Benign |
| MSH3  | NM\_002439.4  | c.356C>T | p.S119F  | exon2  | Heterozygous | Benign |