**Additional file 1: TableS1: Genetic mutations with uncertain significance in the reported ALK-TPM3 rearranged renal cell carcinoma:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 　 | **Gene** | **Locus** | **Consequence** | **ExonID** | **Frequency of variant** | **DNA variant** | **Protein variant** | **Accession No.**  | **CLIN\_SIG** |
| **1** | BARD1 | chr2:215645825 | missense\_variant | 4/11 | 0.4968 | ENST00000260947.4:c.773T>C | ENSP00000260947.4:p.Ile258Thr | NM\_000465.2 | Uncertain significance |
| **2** | FANCA | chr16:89845371 | missense\_variant | 19/43 | 0.4075 | ENST00000389301.3:c.1756G>A | ENSP00000373952.3:p.Ala586Thr | NM\_000135.2 | Uncertain significance |
| **3** | MSH3 | chr5:79950724 | missense\_variant | 1/24 | 0.508 | ENST00000265081.6:c.178G>C | ENSP00000265081.6:p.Ala60Pro | NM\_002439.4 | Uncertain significance |
| **4** | NF1 | chr17:29587401 | missense\_variant | 33/57 | 0.4602 | ENST00000356175.3:c.4382T>C | ENSP00000348498.3:p.Ile1461Thr | NM\_000267.3 | Uncertain significance |
| Notation：Results annoatation software version:Variant Effector Predictor (VEP version 84);Database version: ClinVar (version 201710);Reference genome version: GRCh37 (hg19) |