**CLINICAL REPORT**

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| **Patient Data** |
| **Patient** {patient\_lastname} {patient\_firstname}  **Birthdate** {patient\_dateofbirth}  **Diagnosis** {patient\_diagnosis\_short} |

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| --- |
| Mutation load {mutation\_load} non- synonyms SNV {mutation\_ns\_snv} |
| Number of oncogenes {mutation\_affected\_oncogenes} |
| Number of tumor suppressor genes {mutation\_affected\_tumorsupressorgenes} |
| HLA Type {mutation\_hla\_type} |
| Additional information {mutation\_additional\_information} |

| **Somatic Mutations in Known Driver Genes** | | | |
| --- | --- | --- | --- |
| ClinAnn database is searched for patient’s somatic variants to identify affected cancer driver genes. The results are summarized in this table. Reference column shows the sources that cataloged the corresponding gene as driver. | | | |
| **Gene** | **Mutation** | **Confidence[[1]](#footnote-1)** | **Reference** |
| {#mskdg}{Gene} | {Mutation} | {Confidence} | {References}{/mskdg} |

| **Somatic Mutations in Pharmaceutical Target Proteins** | | | | |
| --- | --- | --- | --- | --- |
| **ClinAnn Summary of Cancer Drugs Targeting the Affected Genes** | | | | |
| Table shows the cancer drugs targeting the mutated gene obtained from ClinAnn database. | | | | |
| **Gene** | **Mutation** | **Therapy** | **Confidence[[2]](#footnote-2)** | **References** |
| {#ptp\_da}{Gene} | {Mutation} | {Therapy} | {Confidence} | {References}{/ptp\_da} |

| **CIViC Summary of Drugs Targeting the Affected Genes** | | | | | |
| --- | --- | --- | --- | --- | --- |
| Table shows the drugs that has evidence of targeting the affected gene. The information is obtained from CIViC database clinical evidence. | | | | | |
| **Gene** | **Mutation** | **Therapy** | Disease | Evidence[[3]](#footnote-3) | References |
| {#ptp\_ia}{Gene} | {Mutation} | {Therapy} | {Disease} | {Evidence} | {References}{/ptp\_ia} |

| **Somatic Mutations with Known Pharmacogenetic Effect** | | | | | |
| --- | --- | --- | --- | --- | --- |
| Table gives the list of drugs that directly targets the observed variant of the gene. | | | | | |
| **Gene** | **Mutation** | **Therapy** | **Disease** | **Evidence**3 | **References** |
| {#mskpe}{Gene} | {Mutation} | {Therapy} | {Disease} | {Evidence} | {/mskpe}{References} |

| References | |
| --- | --- |
| Table shows the publications of the reference IDs given in the tables above. | |
| {#ref}{rowid} | {/ref}{citation} |

| Appendix | | | |
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| All the somatic variants of the patient are listed in this table with their dbSNP and COSMIC IDs. | | | |
| Gene | Mutation | dbSNP | COSMIC |
| {#appendix}{Gene} | {Mutation} | {dbSNP} | {/appendix}{COSMIC} |

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| **Disclaimer** |
| This report is intended as a hypothesis generating framework and is thus intended for research use only and not for diagnostic or clinical purposes. Information provided in this report does not replace a physician's medical judgement and usage is entirely at your own risk. The providers of this resource shall in no event be liable for any direct, indirect, incidental, consequential, or exemplary damages. |

1. Confidence shows the number of the driver gene sources that includes the gene. The sources are Vogelstain et al., Rubio-Perez et al., TSgene DB, COSMIC DB, UniProt. [↑](#footnote-ref-1)
2. Confidence shows the total number of the publications that is citing the drug. [↑](#footnote-ref-2)
3. [CIViC evidence levels](https://civicdb.org/help/evidence/evidence-levels) are used. A = Validated association, B = Clinical Evidence, C = Case study, D = Preclinical evidence, E = Inferential association [↑](#footnote-ref-3)