Whole Exome Sequencing on the Illumina Novaseq 6000 NGS Platofrm

| Clinical Indication: |
| --- |
| {d.dynamic.clinicalSummary.data} |

| {d.dynamic.result.data} |
| --- |

\*

Variant Interpretation & Clinical correlation:

{d.dynamic.FLNC.data}

{d.dynamic.interpretation.data}

| Variant Evidence | Gene Impact |
| --- | --- |
| Chromosome: {d.dynamic.variantInfo.data.Location}  Position: {d.position}  {d.dynamic.variantInfo.data.Variation}   | Allele | DP | % | | --- | --- | --- | | {d.dynamic.variantInfo.data.rowData[0][4]} | {d.dynamic.variantInfo.data.rowData[0].} | {d.dynamic.variantInfo.data.rowData[0].%} | |  |  |  |   Genotype:  {d.dynamic.variantInfo.data.rowData[0][4]}  phred quality score: {d.dynamic.variantInfo.data.phredscore} | RefSeq Gnese 110, NCBI   | Gene:  {d.dynamic.variantInfo.data.rowData[0][2]} | Transcript:  {d.dynamic.variantInfo.data.rowData[0][2]} | | --- | --- | | Effect:  {d.dynamic.variantInfo.data.rowData[0][6]} | Protein: | | Exon:  {d.dynamic.variantInfo.data.Variation} | Coding:  {d.dynamic.variantInfo.data.Variation} | |

Based on the evidence, this variant {d.dynamic.variantInfo.data.rowData[0][4]}

is classified as likely to be {d.dynamic.variantInfo.data.rowData[0][6]}

variant

OMIM Phenotype

{d.dynamic.variantInfo.data.rowData[0][6]}

| Recommendations |
| --- |
| {d.static.recommendation.data} |

| Methodology: |
| --- |
| {d.static.test\_methodology.data} |

| Limitations/Disclaimer: |
| --- |
| {d.static.limitation.data}  {d.static.disclaimer.data} |

Variant Classification as per ACMG guidelines:

| Name | Description |
| --- | --- |
| {d.static.terms.data.rowData[0][0]} | {d.static.terms.data.rowData[0][1]} |
| {d.static.terms.data.rowData[1][0]} | {d.static.terms.data.rowData[1][1]} |

References:

{d.static.references.data[0]}

{d.static.references.data[1]}

{d.static.references.data[2]}

{d.static.references.data[3]}

{d.static.references.data[4]}

{d.static.references.data[5]}

{d.static.references.data[6]}

{d.static.references.data[7]}

{d.static.references.data[8]}

{d.static.references.data[9]}

{d.static.references.data[10]}

{d.static.references.data[11]}

{d.static.references.data[12]}

{d.static.references.data[13]}

{d.static.references.data[14]}

{d.static.references.data[15]}

{d.static.references.data[16]}

{d.static.references.data[17]}

{d.static.references.data[18]}

{d.static.references.data[19]}

{d.static.references.data[20]}

{d.static.references.data[21]}

{d.static.references.data[22]}

{d.static.references.data[23]}

{d.static.references.data[24]}

{d.static.references.data[25]}

{d.static.references.data[26]}

{d.static.references.data[27]}

Appendix 1: Sample Data and Statistics

|  |  |
| --- | --- |
|  |  |
|  |  |

Appendix 2: Coverage Summary

| Mean Depth | Percentage target base pairs covered |
| --- | --- |

| {d.coverageSummary.meanDepth} | {d.coverageSummary.percentageCovered} |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

Appendix 3: Coverage of Analyzed Genes (Percentage of coding region covered)

| Gene | Region Covered | Gene | Region Covered | Gene | Region Covered |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

Database Information:

| 1000 Genomes | Indigen | gnomAD\_exome | gnom\_genome | inhousedb | GME |
| --- | --- | --- | --- | --- | --- |
| {d.dynamic.databaseInformation.data.rowData[0][0][1]} | {d.dynamic.databaseInformation.data.rowData[0][1]} | {d.dynamic.databaseInformation.data.rowData[0][2]} | {d.dynamic.databaseInformation.data.rowData[0][3]} | {d.dynamic.databaseInformation.data.rowData[0][4]} | {d.dynamic.databaseInformation.data.rowData[0][5]} |
| {d.dynamic.databaseInformation.data.rowData[1][0]} | {d.dynamic.databaseInformation.data.rowData[1][1]} | {d.dynamic.databaseInformation.data.rowData[1][2]} | {d.dynamic.databaseInformation.data.rowData[1][3]} | {d.dynamic.databaseInformation.data.rowData[1][4]} | {d.dynamic.databaseInformation.data.rowData[1][5]} |