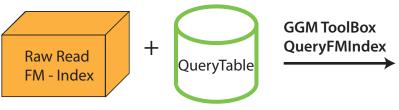


2) FM Indexing Reads

Raw Read Fastq File GGM ToolBox Fastq2FMIndex

3) Query Against FM-Index



Info (chrom:pos:ref:alt:identifier:datatype) RefReadCount AltReadCount 36 17:78187651:G:A:370732:clinvar 0 RefReadCount AltReadCount Info (chrom:pos:ref:alt:identifier:datatype) 15 18 8:15002002:T:C:rs1288320:hapmap Info (chrom:pos:ref:alt:identifier:datatype) RefReadCount AltReadCount 40 0 1:2185301:G:T:C-60EQD:cytoscanhd

4) Interpret & Reformat Output

Info (chrom:pos:ref:alt:identifier:datatype) 17:78187651:G:A:370732:clinvar

Info (chrom:pos:ref:alt:identifier:datatype) 8:15002002:T:C:rs1288320:hapmap

Info (chrom:pos:ref:alt:identifier:datatype) 1:2185301:G:T:C-60EQD:cytoscanhd

RefReadCount 0

RefReadCount

15

RefReadCount

60

AltReadCount 36 Homozygous Pathogenic Variant Found!

ClinVarID: 370732

Autosomal Recessive, SanFilippo Syndrome, Pathogenic

AltReadCount 18

Intepret Clinvar

Ancestry: Non European Finnish

Ethnicity: Caucasian

AltReadCount 0

2 CNVs Found: Duplication and Deletion