

SnpEff: Variant analysis

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Summary

Genome	reference_db
Date	2025-12-07 17:12
SnpEff version	SnpEff 5.4a (build 2025-11-25 12:22), by Pablo Cingolani
Command line arguments	SnpEff -stats results/snpEff/snpEff.html reference_db results/variants/filtered_variants.vcf
Warnings	5
Errors	0
Number of lines (input file)	182
Number of variants (before filter)	184
Number of non-variants (i.e. reference equals alternative)	0
Number of variants processed (i.e. after filter and non-variants)	184
Number of known variants (i.e. non-empty ID)	0 (0 %)
Number of multi-allelic VCF entries (i.e. more than two alleles)	2
Number of annotations	184
Genome total length	112,164
Genome effective length	112,164
Variant rate	1 variant every 609 bases

Variants rate details

Chromosome	Length	Variants	Variants rate
NG_053114.1	112,164	184	609
Total	112,164	184	609

Number variants by type

Type	Total
SNP	177
MNP	0
INS	7
DEL	0
MIXED	0
INV	0
DUP	0
CNV	0
BND	0
INTERVAL	0
Total	184

Number of effects by impact

Type (alphabetical order)	Count	Percent
MODIFIER	184	100%

Number of effects by functional class

Type (alphabetical order) Count Percent

Missense / Silent ratio: 0

Number of annotations and region counts

Annotation		Region			
Type (alphabetical order)	Count	Percent	Type (alphabetical order)	Count	Percent
intron_variant	184	100%	INTRON	184	100%



Quality:



Insertions and deletions length:

Min	0
Max	2
Mean	0.571
Median	0
Standard deviation	0.787
Values	0,1,2
Count	4,2,1



Base changes (SNPs)

	A	C	G	T
A	0	3	35	9
C	5	0	4	30
G	24	11	0	6
T	16	28	6	0

Ts/Tv (transitions / transversions)

Note: Only SNPs are used for this statistic.

Note: This Ts/Tv ratio is a 'raw' ratio (ratio of observed events).

Transitions	184
Transversions	102
Ts/Tv ratio	1.8039

All variants:

Sample ,sample1,Total
Transitions ,184,184
Transversions ,102,102
Ts/Tv ,1.804,1.804

Only known variants (i.e. the ones having a non-empty ID field):

No results available (empty input?)

Allele frequency



Min	50
Max	100
Mean	83.516
Median	100
Standard deviation	23.57
Values	50,100
Count	60,122

Allele Count



Min	1
Max	2
Mean	1.67
Median	2
Standard deviation	0.471
Values	1,2
Count	20,100

Hom/Het per sample



```
Sample_names , sample1  
Reference , 0  
Het , 60  
Hom , 122  
Missing , 0
```

Codon changes

How to read this table:

- How to read this table:

 - Rows are reference codons and columns are changed codons. E.g. Row 'AAA' column 'TAA' indicates how many 'AAA' codons have been replaced by 'TAA' codons.
 - Red background colors indicate that more changes happened (heat-map).
 - Diagonals are indicated using grey background color
 - WARNING: This table may include different translation codon tables (e.g. mammalian DNA and mitochondrial DNA).



Amino acid changes

How to read this table:

- How to read this table:

 - Rows are reference amino acids and columns are changed amino acids. E.g. Row 'A' column 'E' indicates how many 'A' amino acids have been replaced by 'E' amino acids.
 - Red background colors indicate that more changes happened (heat-map).
 - Diagonals are indicated using grey background color
 - WARNING: This table may include different translation codon tables (e.g. mammalian DNA and mitochondrial DNA).



Variants by chromosome



Details by gene

[Here](#) you can find a tab-separated table.