

## SnpEff: Variant analysis

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### Summary

Genome	reference_db
Date	2025-12-06 00:56
SnpEff version	SnpEff 5.1d (build 2022-04-19 15:49), by Pablo Cingolani
Command line arguments	SnpEff -stats results/snpEff/snpEff.html reference_db results/variants/filtered_variants.vcf
Warnings	1
Errors	0
Number of lines (input file)	30
Number of variants (before filter)	30
Number of not variants (i.e. reference equals alternative)	0
Number of variants processed (i.e. after filter and non-variants)	30
Number of known variants (i.e. non-empty ID)	0 ( 0% )
Number of multi-allelic VCF entries (i.e. more than two alleles)	0
Number of effects	30
Genome total length	67,646
Genome effective length	67,646
Variant rate	1 variant every 2,254 bases

### Variants rate details

Chromosome	Length	Variants	Variants rate
NG_013302.2	67,646	30	2,254
Total	67,646	30	2,254

### Number variants by type

Type	Total
SNP	26
MNP	0
INS	2
DEL	2
MIXED	0
INV	0
DUP	0
BND	0
INTERVAL	0
Total	30

### Number of effects by impact

Type (alphabetical order)	Count	Percent
HIGH	1	3.333%
LOW	2	6.667%
MODIFIER	27	90%

### Number of effects by functional class

Type (alphabetical order)	Count	Percent
NONSENSE	1	33.333%
SILENT	2	66.667%

Missense / Silent ratio: 0








### Number of effects by type and region

Type			Region		
Type (alphabetical order)	Count	Percent	Type (alphabetical order)	Count	Percent
intergenic_region	10	33.333%	EXON	3	10%
intron_variant	17	56.667%	INTERGENIC	10	33.333%
stop_gained	1	3.333%	INTRON	17	56.667%
synonymous_variant	2	6.667%			



### Quality:

Min	30
Max	265
Mean	93.067
Median	78
Standard deviation	40.265

Values	30,54,63,70,72,73,77,78,109,116,120,121,123,265																																																	
Count	1,1,1,2,1,3,1,9,3,1,1,4,1,1																																																	
																																																		
Insertions and deletions length:																																																		
Min	0																																																	
Max	1																																																	
Mean	0.5																																																	
Median	0.5																																																	
Standard deviation	0.577																																																	
Values	0,1																																																	
Count	2,2																																																	
																																																		
Base changes (SNPs)																																																		
<table><tr><td></td><td>A</td><td>C</td><td>G</td><td>T</td></tr><tr><td>A</td><td>0</td><td>1</td><td>4</td><td>1</td></tr><tr><td>C</td><td>0</td><td>0</td><td>1</td><td>4</td></tr><tr><td>G</td><td>5</td><td>0</td><td>0</td><td>2</td></tr><tr><td>T</td><td>0</td><td>7</td><td>1</td><td>0</td></tr></table>			A	C	G	T	A	0	1	4	1	C	0	0	1	4	G	5	0	0	2	T	0	7	1	0																								
	A	C	G	T																																														
A	0	1	4	1																																														
C	0	0	1	4																																														
G	5	0	0	2																																														
T	0	7	1	0																																														
Ts/Tv (transitions / transversions)																																																		
<p><b>Note:</b> Only SNPs are used for this statistic.</p> <p><b>Note:</b> This Ts/Tv ratio is a 'raw' ratio (ratio of observed events).</p> <table><tr><td>Transitions</td><td>30</td></tr><tr><td>Transversions</td><td>9</td></tr><tr><td>Ts/Tv ratio</td><td>3.3333</td></tr></table>		Transitions	30	Transversions	9	Ts/Tv ratio	3.3333																																											
Transitions	30																																																	
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All variants:																																																		
Sample ,sample1,Total																																																		
Transitions ,30,30																																																		
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Ts/Tv ,3.333,3.333																																																		
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	76.667																																																	
Median	100																																																	
Standard deviation	25.371																																																	
Values	50,100																																																	
Count	14,16																																																	
Allele Count																																																		
																																																		
Min	1																																																	
Max	2																																																	
Mean	1.533																																																	
Median	2																																																	
Standard deviation	0.507																																																	
Values	1,2																																																	
Count	14,16																																																	
Hom/Het per sample																																																		
  																																																		
Sample_names , sample1																																																		
Reference , 0																																																		
Het , 14																																																		
Hom , 16																																																		
Missing , 0																																																		
Codon changes																																																		
<p>How to read this table:</p> <ul style="list-style-type: none"><li>- 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.</li><li>- Red background colors indicate that more changes happened (heat-map).</li><li>- Diagonals are indicated using grey background color</li><li>- WARNING: This table may include different translation codon tables (e.g. mamalian DNA and mitochondrial DNA).</li></ul>																																																		
<table><tr><td></td><td>GAA</td><td>GAC</td><td>GAT</td><td>TAA</td><td>TCC</td><td>TCT</td></tr><tr><td>GAA</td><td></td><td></td><td></td><td>1</td><td></td><td></td></tr><tr><td>GAC</td><td></td><td></td><td>1</td><td></td><td></td><td></td></tr><tr><td>GAT</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>TAA</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>TCC</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>TCT</td><td></td><td></td><td></td><td></td><td>1</td><td></td></tr></table>			GAA	GAC	GAT	TAA	TCC	TCT	GAA				1			GAC			1				GAT							TAA							TCC							TCT					1	
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TCC																																																		
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Amino acid changes																																																		
<p>How to read this table:</p> <ul style="list-style-type: none"><li>- 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.</li><li>- Red background colors indicate that more changes happened (heat-map).</li></ul>																																																		

[illegible]