

Information about Sequence

Context information about a sequence can be found on the *Statistics* tab in the *Options Panel*. All information is contextual, i.e. it shows statistics about the currently selected region (on the selected sequence). The tab includes information about:

- Common statistics
 - Length - number of bases in the analyzed sequence
 - GC content - the molar percentage of guanine and cytosine bases in an oligonucleotide sequence
 - Molar weight - is the sum of the atomic masses of the constituent atoms for 1 mole of oligonucleotide
 - Molar ext. coefficient - the molar extinction coefficient is a physical constant that is unique for each sequence and describes the amount of absorbance at 260nm (A_{260}) of 1 mole/L DNA solution measured in 1 cm path-length cuvette
 - Melting T_M - melting temperature is the temperature at which an oligonucleotide duplex is 50% in single-stranded form and 50% in double-stranded form
 - nmole/ OD_{260} - the amount of oligonucleotide in nanomoles that, when dissolved in 1 mL volume, results in 1 unit of absorbance at 260 nm with a standard 1 cm path-length cuvette
 - g/ OD_{260} - the amount of oligonucleotide in micrograms that, when dissolved in 1 mL volume, results in 1 unit of absorbance at 260 nm with a standard 1 cm path-length cuvette
- Characters occurrence
- Dinucleotides occurrence (for sequences with the standard DNA and RNA alphabets)

Statistics

▼ Common Statistics

Length: 589
GC Content: 52.12%
Molar Weight: 181766.49 Da
Molat Ext. Coef: 6352900 I/mol
Melting T_M : 85.13 C
nmole/ OD_{260} : 0.16
 μ g/ OD_{260} : 28.61

▼ Characters Occurrence

A: 151 25.6%
C: 163 27.7%
G: 144 24.4%
T: 131 22.2%

▼ Dinucleotides

AA: 50
AC: 28
AG: 44
AT: 29
CA: 41
CC: 54
CG: 27
CT: 41
GA: 37
GC: 38
GG: 37
GT: 32
TA: 22

Name	Value
Auto-annotations [murine.gb NC_001363]	
NC_001363 features [murine.gb]	
CDS (0, 4)	
CDS	1042..2658
CDS	join(2970..3413,3412..3873)
CDS	3875..4999
CDS	5048..5203
misc_feature (0, 2)	
misc_feature	2..590
misc_feature	5245..5833
source (0, 1)	

To copy the statistical information about a sequence select it on the *Options Panel* and choose the copy item in the context menu, or use the Ctrl+C shortcut.