

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)

NC_001363 [dna]

15001k1.5k2k2.5k3k3.5k4k4.5k5k5.833

15001k1.5k2k2.5k3k3.5k4k4.5k5k5.833

[589 bp] → 590

★ Q P L P Y ★ Q R M Q A S ★ P W D S H

S S H C R T D K G C R Q A N H G T A T

V A A I A V L T K D A G K L T M G Q P

TAGCAGCCATTGCCGTACTGACAAAGGATGCAGGCAAGCTAACCATGGGACAGCCAC

297429802985299029953k300530103015302030253030

ATCGTCGGTAACGGCATGACTGTTTCCTACGTCCGTTTCGATTGGTACCCTGTTCGGTG

A A M A T S V F S A P L S V M P C G S

L L W Q R V S L P H L C A L W P V A V

Y C G N G Y Q C L I C A L ★ G H S L W

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

Statistics

Common Statistics

Length:

589

GC Content:

52.12%

Molar Weight:

181766.49 Da

Molar Ext. Coef:

6352900 l/mol

Melting T_M :

85.13 C

nmole/ OD_{260} :

0.16

μg/ OD_{260} :

28.61

Characters Occurrence

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

TC:

43

TG:

36

TT:

29

Help

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.