

# Package ‘genemodel’

May 8, 2026

**Title** Gene Model Plotting in R

**Date** 2017-02-20

**Version** 1.1.0

**Description**

Using simple input, this package creates plots of gene models. Users can create plots of alternatively spliced gene variants and the positions of mutations and other gene features.

**Depends** R (>= 3.2.5)

**Imports** stringr

**License** GPL-2

**LazyData** true

**RoxygenNote** 5.0.1

**URL** <https://github.com/greymonroe/genemodel>

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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 AT5G62640

*Gene model for AT5G62640*


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**Description**

Gene model for AT5G62640

**Usage**

AT5G62640

**Format**

A data frame with 32 rows and 2 variables:

**type** feature of gene ie intron exon or UTR

**coordinates** start and stop of gene feature separated by a "-" ...

**Source**

<https://www.arabidopsis.org/servlets/TairObject?type=gene&id=1000654517>

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 genemodel.plot

*genemodel.plot*


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**Description**

This function plots a gene model

**Usage**

```
genemodel.plot(model, start, bpstop, orientation, xaxis = TRUE)
```

**Arguments**

model	data.frame containing model information. Required columns are "type", "coordinates"
start	start position
bpstop	stop position
orientation	either "foward" or "reverse" indicates the direction of transcription
xaxis	default is TRUE and adds axis above gene model showing position

**Examples**

```
data(AT5G62640)
genemodel.plot(AT5G62640, 25149433, 25152541, "reverse", xaxis=TRUE)
```

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mutation.plot	<i>mutation.plot</i>
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**Description**

This function plots mutations along genemodels created with `genemodel.plot`

**Usage**

```
mutation.plot(start, stop, text = "", drop = -0.15, col = "red",  
             haplotypes = NULL)
```

**Arguments**

<code>start</code>	start position
<code>stop</code>	stop position
<code>text</code>	any text that you want displayed on the label
<code>drop</code>	how far below the gene model you want the mutation label to be placed
<code>col</code>	the color of the text and mutation line to be
<code>haplotypes</code>	the color of dots that you want to place along the mutation line to indicate some factor such as haplotype that the mutation belongs to

**Examples**

```
data(AT5G62640)  
genemodel.plot(AT5G62640, 25149433, 25152541, "reverse")  
mutation.plot(25149593, 25149593, text="P->S", col="red", haplotype="blue")
```

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## \* datasets

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