

# Length-weight relationship of *Romanogobio vladykovi* from Slovenia, sampled from 20.04.2010 to 27.08.2024 (n = 891, length range from 2.20 cm to 14.00 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Romanogobio vladykovi*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 27.08.2024
- n: 891
- L min [cm]: 2.20
- L max [cm]: 14.00
- W min [g]: 0.10
- W max [g]: 35.00
- Data transformation: natural logarithm
- a: 0.0075790
- b: 3.0478493

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6290 -0.0831 -0.0106  0.0769  0.8641
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.8824     0.0276   -177    <2e-16 ***
## ln_l_x         3.0478     0.0129    236    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.149 on 889 degrees of freedom
## Multiple R-squared:  0.984, Adjusted R-squared:  0.984
## F-statistic: 5.57e+04 on 1 and 889 DF, p-value: <2e-16
```

### ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 1241.8245 1.241824e+03 55717.55    0
## Residuals  889   19.8139 2.228785e-02    NA    NA
```

## Visualization

