

# betaSandwich: External Tests

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## Tests

```
#> test-external-betaSandwich-beta-sandwich-adf
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-beta-sandwich-mlm
```

```
#> Test passed
```

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#> Test passed
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#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-beta-sandwich-mvn
```

```
#> Test passed
```

```
#> Test passed
```

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#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-diff-adf
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-diff-mlm
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> Test passed
```

```
#> test-external-betaSandwich-diff-mvn
```

```

#> Test passed
#> Test passed
#> Test passed
#> Test passed

#> test-external-betaSandwich-r-sq-adf

#> Test passed
#> -- Failure: test-external-betaSandwich-r-sq-adf se -----
#> all(abs(sqrt(diag(vcov(rsq))) - std[11:12, "se"]) <= tol) is not TRUE
#>
#> `actual`: FALSE
#> `expected`: TRUE

#> Error:
#> ! Test failed

```

## Environment

```
ls()
```

```
#> [1] "nas1982" "root"
```

## Class

```
#> [[1]]  
#> [1] "data.frame"  
#>  
#> [[2]]  
#> [1] "root_criterion"
```

## References

- Pesigan, I. J. A., Sun, R. W., & Cheung, S. F. (2023). betaDelta and betaSandwich: Confidence intervals for standardized regression coefficients in R. *Multivariate Behavioral Research*, 58(6), 1183–1186. <https://doi.org/10.1080/00273171.2023.2201277>
- R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>