Normed Fit Index

Test: Normed Fit Index

Design: Proportional reduction in ML chi−square from independence to target CFA model.

Variables: G1, G2, G3, famrel, freetime, goout

Null hypothesis: The target model does not reduce discrepancy relative to independence.

Formula: NFI=(chi2_baseline−chi2_target)/chi2_baseline.

Source rows: 649

Calculated metrics:

nfi: 0.993828877672505

target_chi_square: 13.7639720984401

baseline_chi_square: 2230.38393472039

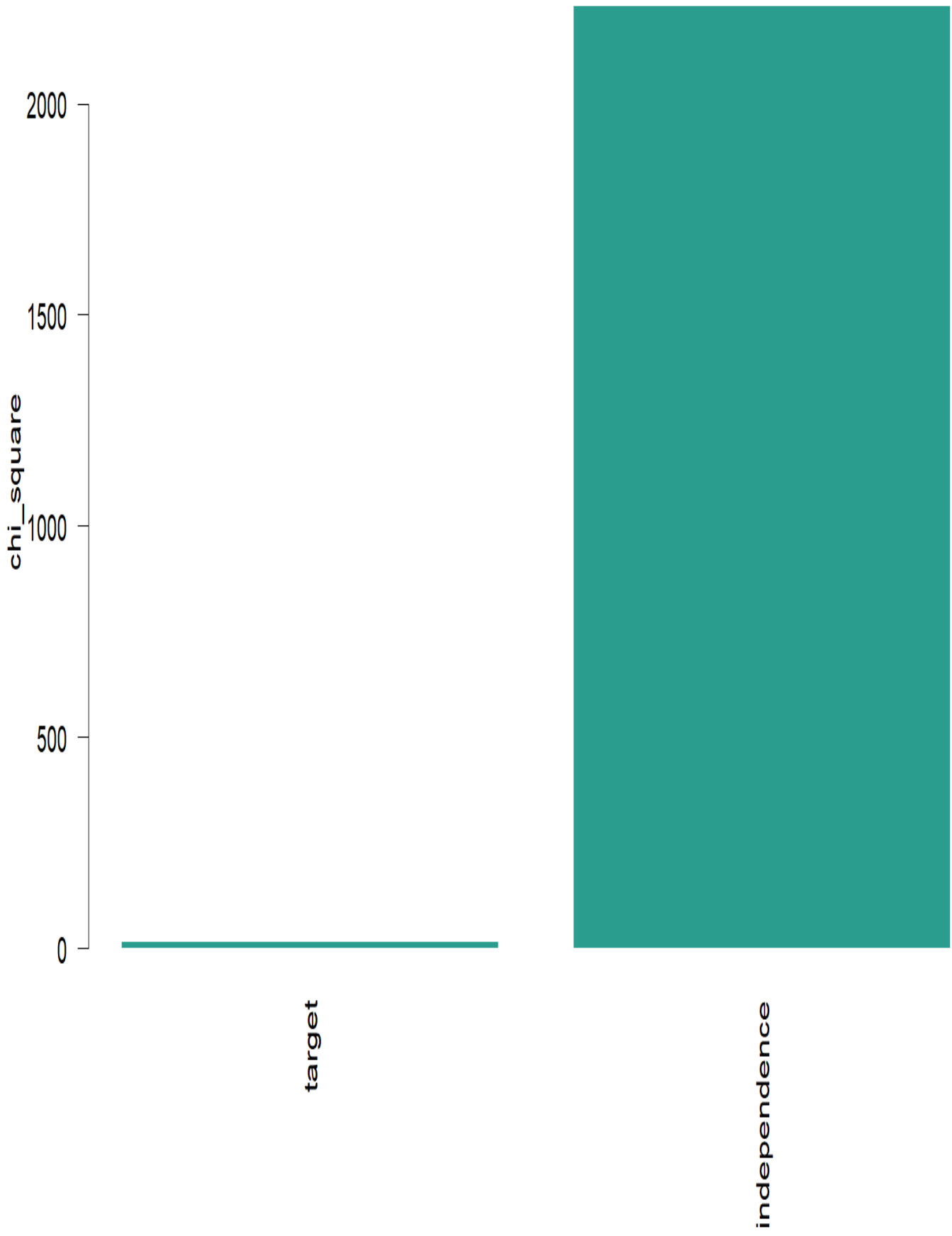
chi_square_reduction: 2216.61996262195

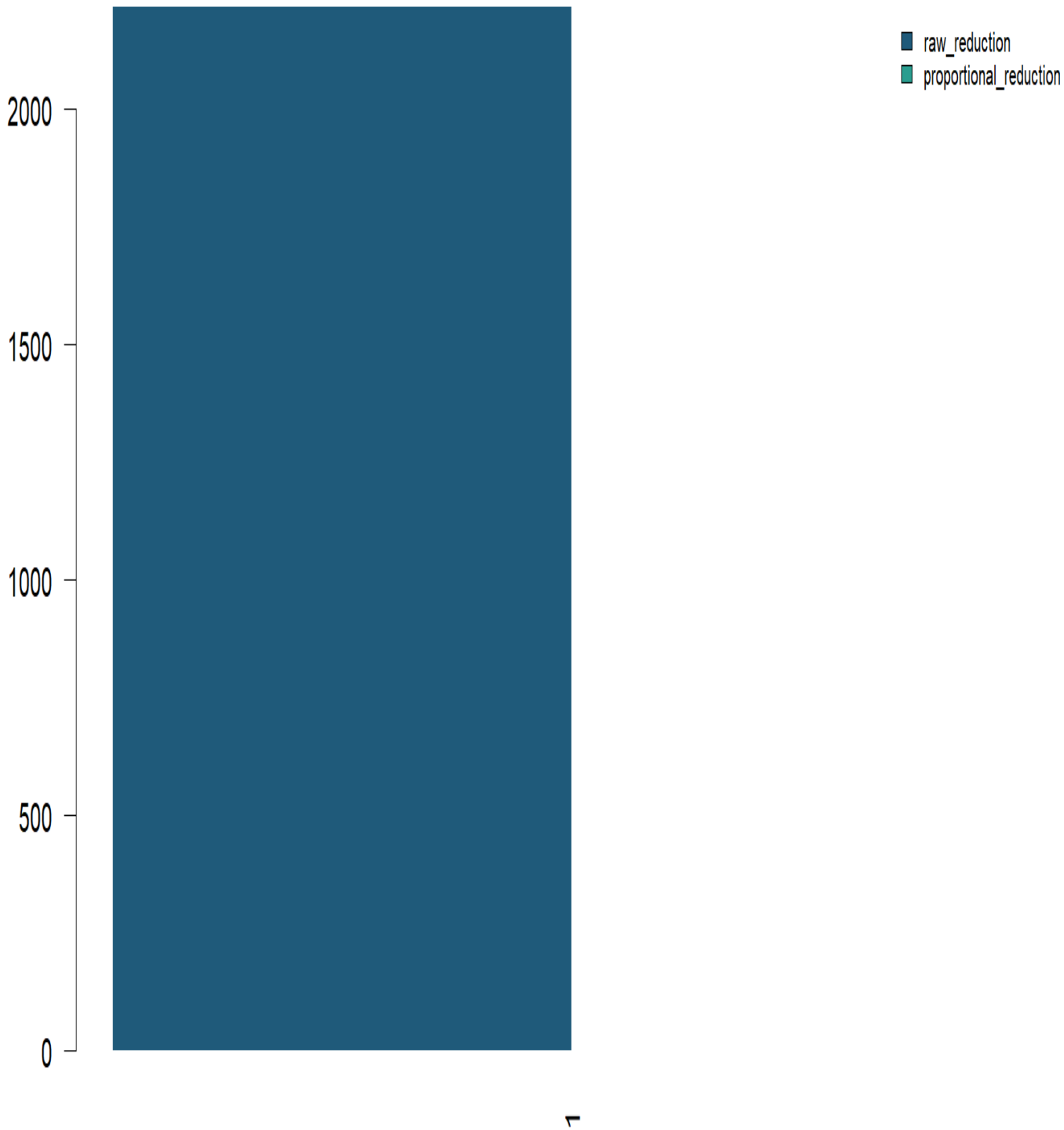
Interpretation:

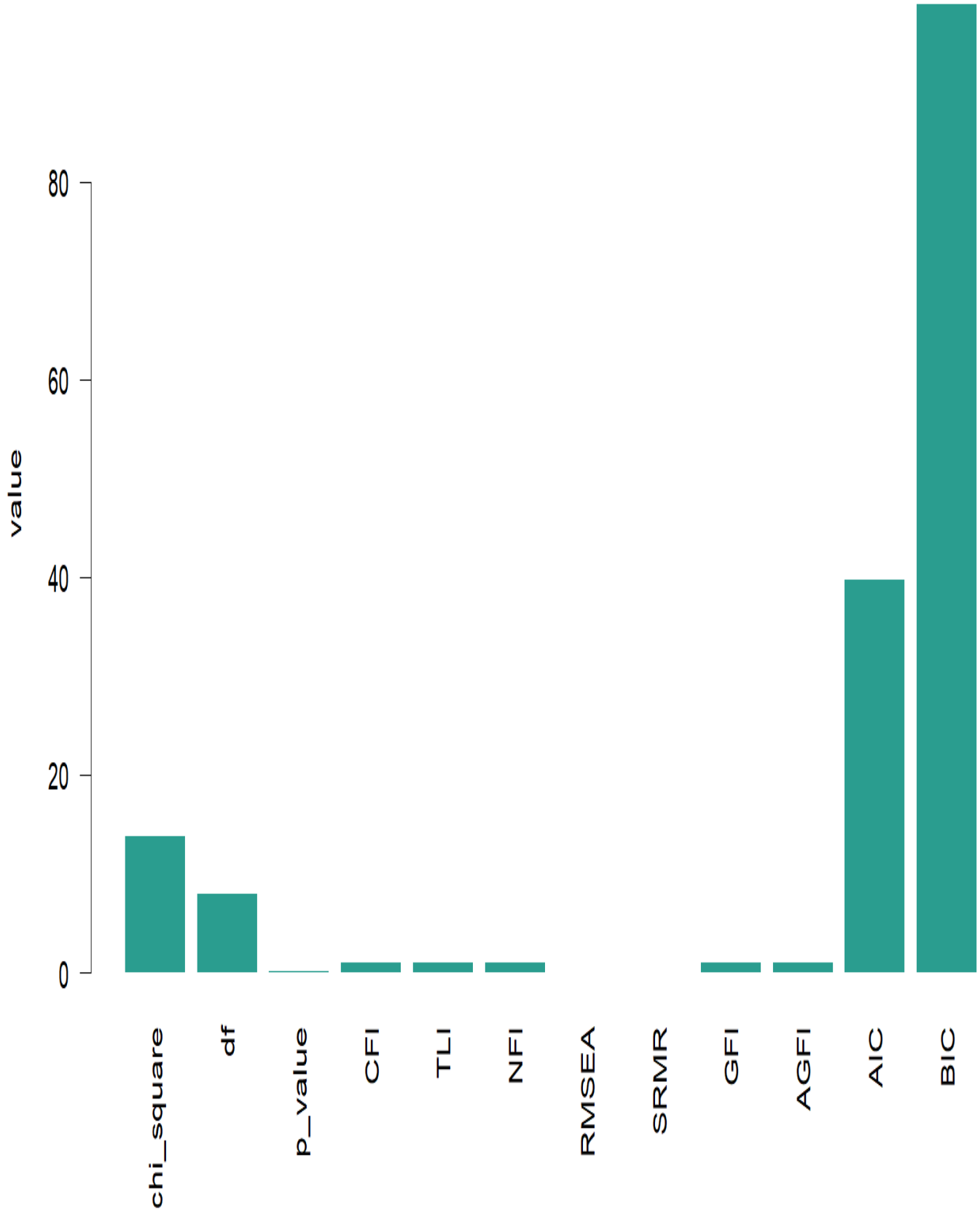
NFI uses raw proportional chi−square reduction.

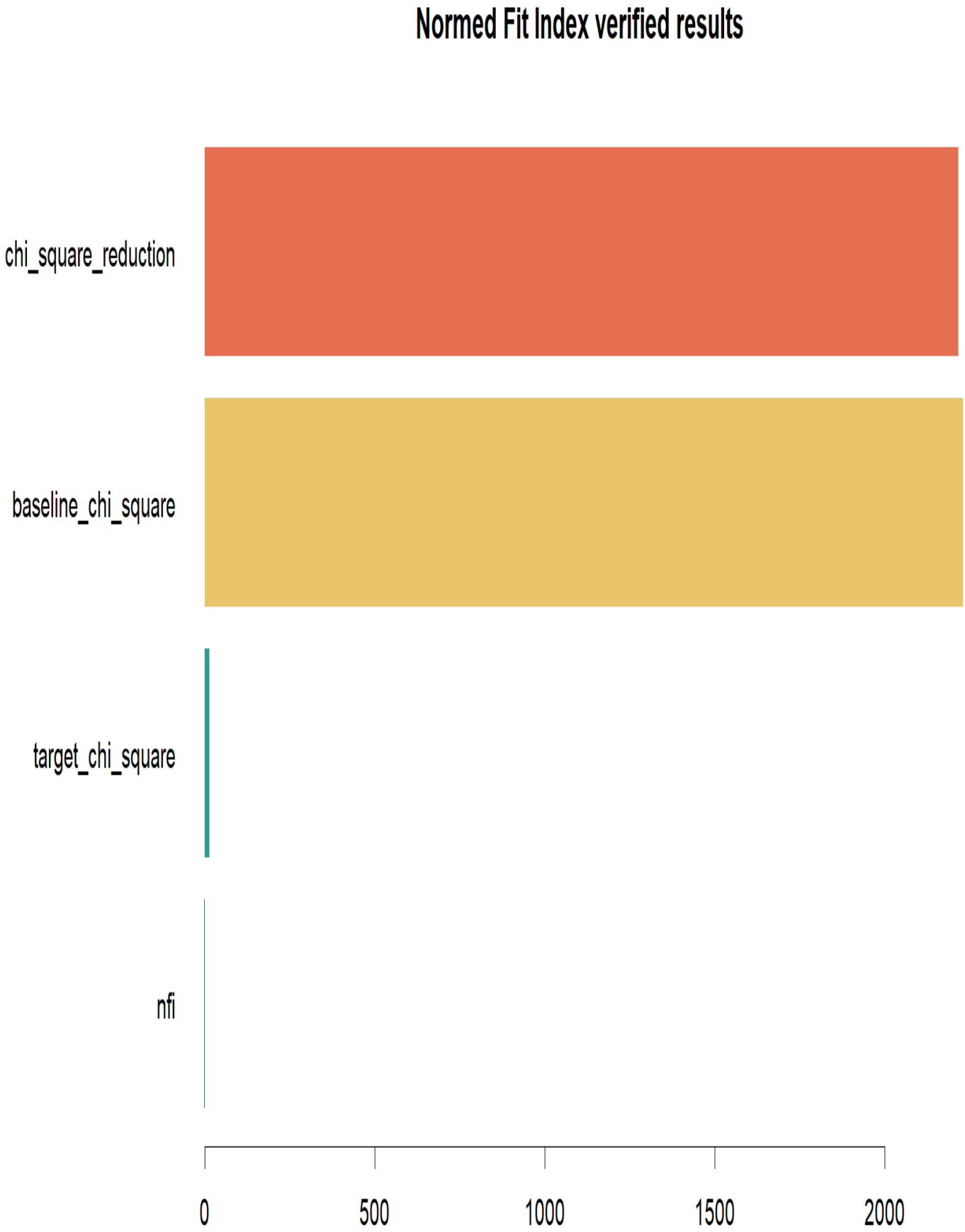
NFI 0.993828877672505

Normed Fit Index - primary metrics
value
2000
1500
1000
500
0
nfi
rget_chi_square
quare_reduction


Normed Fit Index - nfi model comparison
chi_square
2000
1500
1000
500
0
target
independence


Normed Fit Index - nfi reduction
raw_reduction
proportional_reduction
2000
1500
1000
500
0
1


Normed Fit Index - fit context
value
0
20
40
60
80
chi_square
df
p_value
CFI
TLI
NFI
RMSEA
SRMR
GFI
AGFI
AIC
BIC


Normed Fit Index verified results
chi_square_reduction
baseline_chi_square
target_chi_square
nfi
0
500
1000
1500
2000