## <u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

# **Materials**

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier	Section Cell culture and transfection, paragraph 6;	
name, catalogue number and RRID, if available.	scction Quantitative real-time polymerase chain	
	reaction paragraph 7.	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
<b>Cell lines:</b> Provide species information, strain.	Section Cell culture and transfection paragraph 6.	
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number,		
<b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of	Section Cell culture and transfection paragraph 6.	
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID	-	n/a
Animal observed in or captured from the field: Provide species, sex and age where possible	-	n/a
Model organisms: Provide Accession number in repository (where relevant) OR RRID	-	n/a

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	_	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	_	n/a
accession number if available, and source		

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number	Section CC tissues paragraph 5. section Footnote.	
for approval.		
Provide statement confirming informed consent obtained from study participants.	Section CC tissues paragraph 5. section Footnote.	
Report on age and sex for all study participants.	Section CC tissues paragraph 5.	

### **Design**

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.	Section CC tissues paragraph 5.	

Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	_	n/a
by-step protocols are available.		

Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been		
done, <b>or</b> if they were not carried out.		
Sample size determination	_	n/a
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria		n/a

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Section Methods paragraph 8.	
Define whether data describe technical or biological replicates	Section Methods paragraph 8.	

Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Section CC tissues paragraph 5.	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	-	N/ a
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Section footnote.	

Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,	_	n/a
state the authority granting approval and reference		
number for the regulatory approval		

# **Analysis**

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Section CC tissues line 105-108.	
excluded, and whether the criteria for exclusion were determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Section Statistical analyses line 192-193.	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	_	n/
including protocols for access or restriction on		а
access.		
If data are publicly available, provide accession	Section Results line 218-219.	
number in repository or DOI or URL.	http://www.targetscan.org/vert_72/	
If publicly available data are reused, provide	Section Results line 218-219.	
accession number in repository or DOI or URL, where	http://www.targetscan.org/vert_72/	
possible.		

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential		
for replicating the main findings of the study:		
State whether the code or software is available.	_	n/
If code is publicly available, provide accession	_	n/
number in repository, or DOI or URL.		a

### Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of		
discipline-specific guidelines, established and		
endorsed through community initiatives. Journals		
have their own policy about requiring specific		
guidelines and recommendations to complement		
MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI,	ICMJE guidelines were followed, as the journal follows	
ARRIVE) have been followed, and whether a checklist	ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

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