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Last updated by author(s):	Oct 24, 2019

## Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistics		
For all statistical analys	ses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.	
n/a Confirmed		
The exact sar	nple size $(n)$ for each experimental group/condition, given as a discrete number and unit of measurement	
A statement	on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly	
	test(s) used AND whether they are one- or two-sided rests should be described solely by name; describe more complex techniques in the Methods section.	
A description	of all covariates tested	
A description	of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons	
	tion of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) in (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)	
	thesis testing, the test statistic (e.g. $F$ , $t$ , $r$ ) with confidence intervals, effect sizes, degrees of freedom and $P$ value noted is exact values whenever suitable.	
For Bayesian	analysis, information on the choice of priors and Markov chain Monte Carlo settings	
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes		
Estimates of	effect sizes (e.g. Cohen's $d$ , Pearson's $r$ ), indicating how they were calculated	
,	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.	
Software and o	code	
	ut availability of computer code	
Data collection	SCIEX TOF/TOF Series Explorer Software V4.1	
Data analysis	PyMOL v1.6.0.0 SCIEX TOF/TOF Series Explorer Software V4.1	
	oom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. deposition in a community repository (e.g. GitHub). See the Nature Research <u>guidelines for submitting code &amp; software</u> for further information.	
Data		
<ul><li>Accession codes, ur</li><li>A list of figures that</li></ul>	ut <u>availability of data</u> include a <u>data availability statement</u> . This statement should provide the following information, where applicable: iique identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability	
Provide your data availa	pility statement here.	
Field-spec	ific reporting	
Please select the one b	pelow that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.	
X Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences	

Life sciences study design			
	close on these points even when the disclosure is negative.		
Sample size	Three (enzymatic activity measurements). The number is minimal for statistical processing.		
Data exclusions	data were excluded.		
Replication	perimental results were obtained reproductively.		
Randomization	Each tested sample was randomly selected.		
Blinding	Since our experiments did not use living organisms but cell extracts, there is no need to consider blinding.		
Reporting for specific materials, systems and methods  We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.  Materials & experimental systems  Methods  n/a Involved in the study    X Antibodies   X   ChIP-seq   Flow cytometry   X   Palaeontology   X Animals and other organisms   X   Human research participants   X   Clinical data			
Antibodies			
Antibodies used	c-Myc tag antibody (c-Myc antibody (9E10): sc-40, Santa Cruz Biotechnology), anti-c-Myc agarose affinity gel antibody produced in rabbit (A7470, Sigma), anti-mouse IgG, HRP-linked whole Ab sheep (NA931, GE healthcare), IgG Sepharose 6 Fast Flow (17096901, GE healthcare)		
Validation	Describe the validation of each primary antibody for the species and application, noting any validation statements on the manufacturer's website, relevant citations, antibody profiles in online databases, or data provided in the manuscript.		

Eukaryotic cell lines	
Policy information about cell lines	$ar{2}$
Cell line source(s)	HEK293S GnT- (ATCC CRL-3022), HEK293T (RCB2202)
Authentication	None of the cell lines were authenticated.
Mycoplasma contamination	Confirmed that all cell lines tested negative for mycoplasma contamination.
Commonly misidentified lines (See ICLAC register)	There are not any commonly misidentified cell lines used in this study.