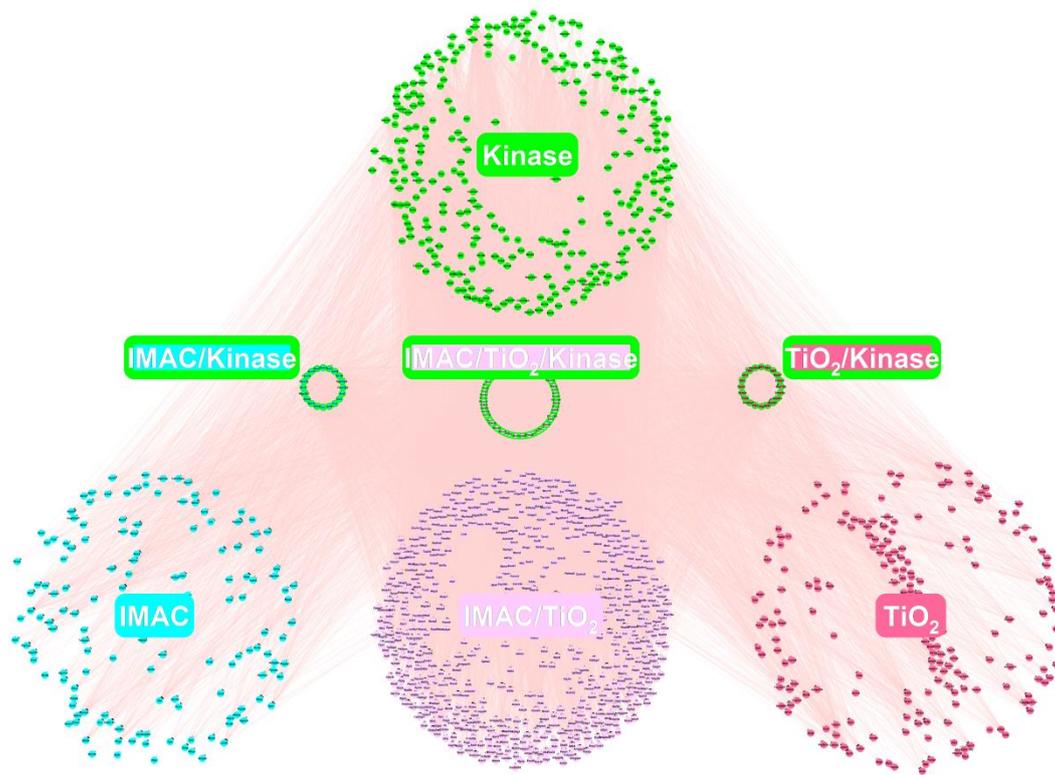
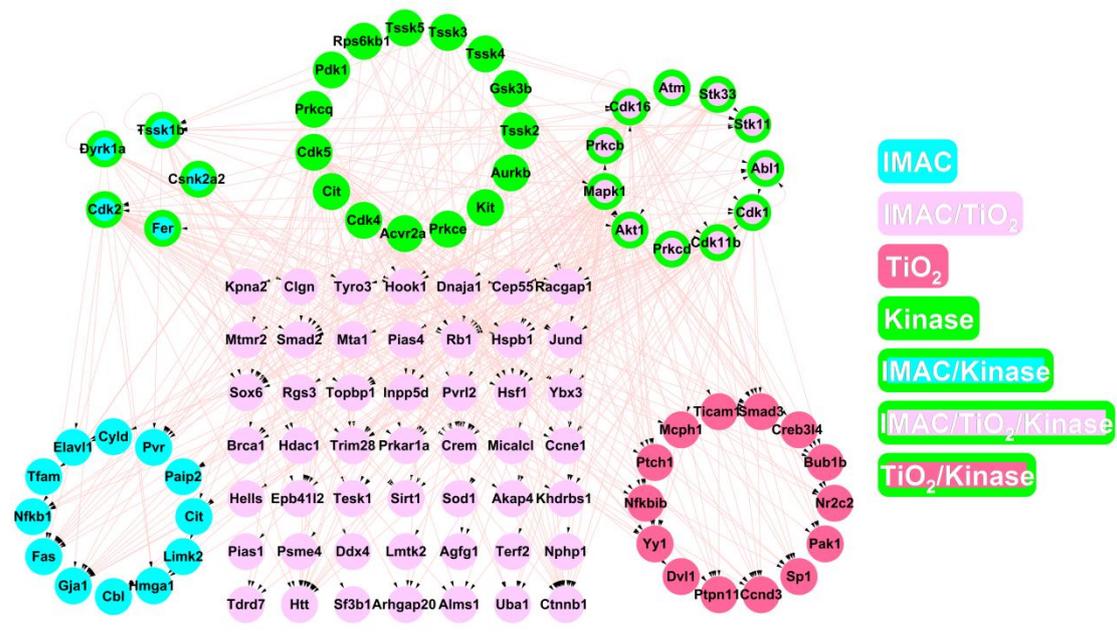




Supplemental Figure S2



Supplemental Figure S3





# Supplemental Figure S5

**A**

Search:

Please search the **pTestis** database to find the information you need.

Please input one or multiple keywords to find the related information:

Gene Name

**B**

※ Search Result(s):

**pTestis proteins : 2**

pTestis ID	UniProt Accession	Description
PT-MM-02523	Q8BH93	MAPK-interacting and spindle-stabilizilike; Mapk1ip11
<b>PT-MM-03754</b>	P63085	Mitogen-activated protein kinase 1; M2;MAP kinase isoform p42;p42-MAPK; Mapk; Prkm1

**C**

BLAST search:

Please input a **PROTEIN** sequence in **FASTA** format:

```
>Mouse Mapk1
MAAAAAAGPEMYRGQVFDWFRYTNLSYIGBGAYMVCSTYDNLNKRVAIKKISPFERQ
TYCQRTRREIKILLFRHENIGINDIIRAFTEQNDVYITVQDLMETDLTKLLKTHLS
NDHEICTFLYQLRGLYIISAWLRLKFSNLLNTICDLAICDPLARVADPDDHFG
FLTEYVYARVYKRAPEIMLNSKGYTSIDIKSVQCLAEMLSRSPFFRHEVLDQLNHLG
ILGSPSQEDLNCIILNKAENYLLSLPHKNVFNRLFPNADSKALDLLKMLTFNPKRRI
EYVQALAHPTLEQYTFPSDEPTAEAPFKFMELLDLPEKELKELIFEETARFPQYRS
```

Species:  E-Value:

※ Search Result(s):

**pTestis proteins : 228**

pTestis ID	Identity	E-Value	Score(bits)
<b>PT-MM-03754</b>	100.00%	0.0	695
PT-MM-03771	88.34%	1e-176	613
PT-MM-04715	87.26%	3e-167	583
PT-MM-03797	52.04%	9e-93	335
PT-MM-02091	45.54%	7e-74	273

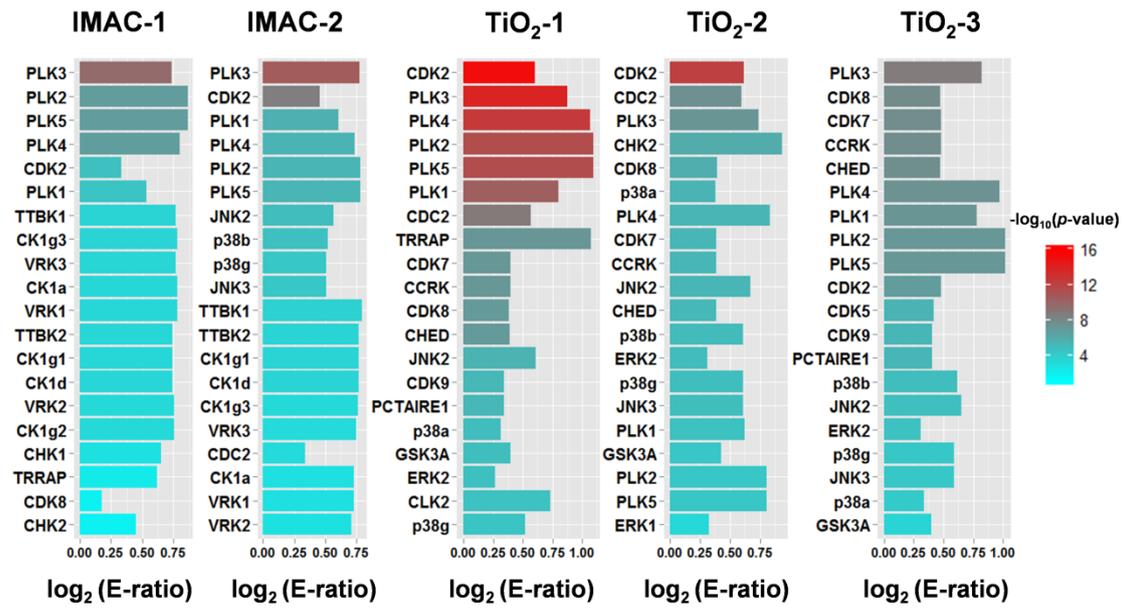
**D**

Position	Peptide	References	IGPS Result
183	HDHTGFLTEYVATR	[1, 2]	<a href="#">View/Close</a>
185	HTGFLTEYVATRWYR	[1, 2]	<a href="#">View/Close</a>

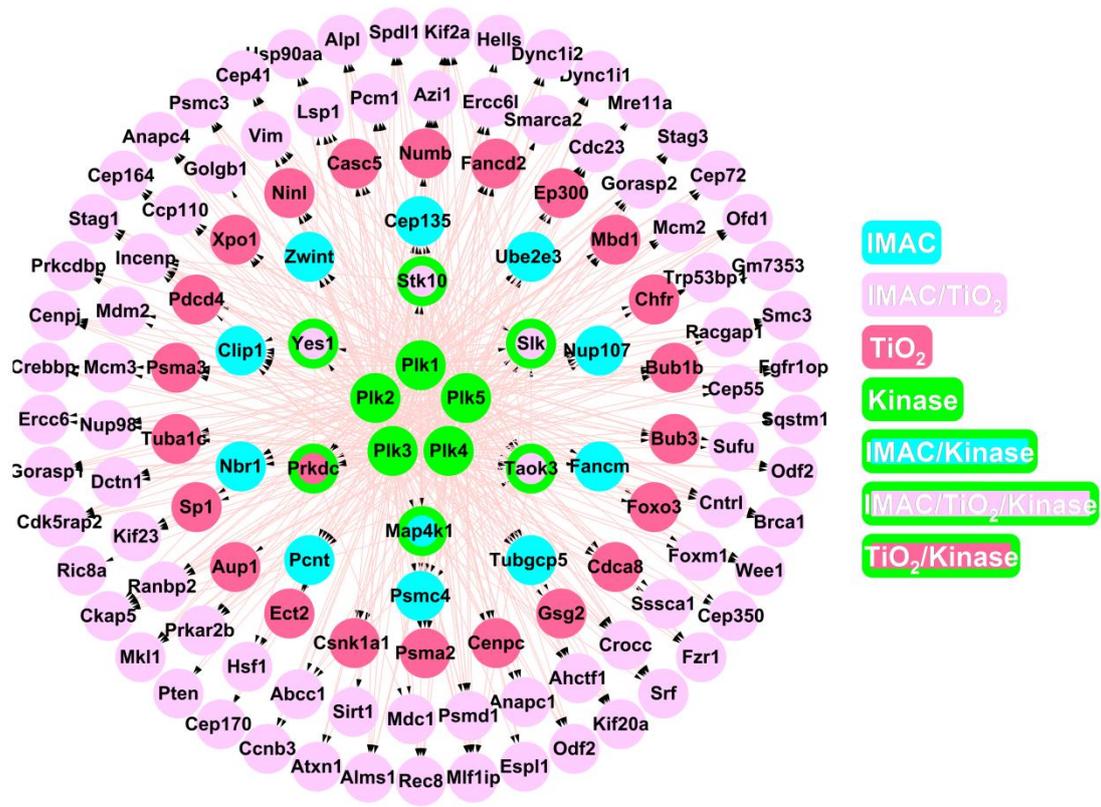
  

Position	Peptide	References	IGPS Result	
183	HDHTGFLTEYVATR	[1, 2]	<a href="#">View/Close</a>	
Kinase ID	Kinase Name	IGPS Predictor	Score	Cutoff
Q9JIE1	MAP2K1	STE/STE7	19.7	0.95
P47809	MAP2K4	STE/STE7	19.7	0.95
Q9WV57	MAP2K5	STE/STE7	19.7	0.95
Q8CE90	MAP2K7	STE/STE7	19.7	0.95
Q9D780	MAP2K2	STE/STE7	19.7	0.95
P70236	MAP2K6	STE/STE7	19.7	0.95
O09110	MAP2K3	STE/STE7	19.7	0.95
Q3U5E5	PDHK1	Atypical/PDHK	2.25	1.5
Q3UC13	BCKDK	Atypical/PDHK	2.25	1.5
Q922H2	PDHK3	Atypical/PDHK	2.25	1.5
Q9IK42	PDHK2	Atypical/PDHK	2.25	1.5
185	HTGFLTEYVATRWYR	[1, 2]	<a href="#">View/Close</a>	
Kinase ID	Kinase Name	IGPS Predictor	Score	Cutoff
Q9JIE1	MAP2K1	STE/STE7	1.05	0.95
P47809	MAP2K4	STE/STE7	1.05	0.95
Q9WV57	MAP2K5	STE/STE7	1.05	0.95
Q8CE90	MAP2K7	STE/STE7	1.05	0.95
Q9D780	MAP2K2	STE/STE7	1.05	0.95
P70236	MAP2K6	STE/STE7	1.05	0.95
O09110	MAP2K3	STE/STE7	1.05	0.95
Q61097	KSR1	TKL/RAF	2.4	1.4
Q3UVC0	KSR2	TKL/RAF	2.4	1.4
P04627	ARAF	TKL/RAF	2.4	1.4
Q99N57	RAF1	TKL/RAF	2.4	1.4
P28028	BRAF	TKL/RAF	2.4	1.4

Supplemental Figure S6



Supplemental Figure S7



Supplemental Figure S8

