

# Little Documentation - TAPscan V4

## Installation

For Installation Instructions please consult the "Übergabe - TAPscan" document.

One important note - for the first initialization the auth.php has to be changed out with the one provided in the Nextcloud folder. After installing the Website and setting up the first admin use the auth.php has to be changed out to restrict further registrations.

## First steps - Importing Data

### Admin - Data Upload

#### Import Species

Prepare Species\_taxID.csv:

QSTTA	Archaeplastida	Chlorophyta	prasinophytes	Mamiellales	Bathycoccaceae	Ostreococcus tauri	3625
QSTSP	Archaeplastida	Chlorophyta	prasinophytes	Mamiellales	Bathycoccaceae	Ostreococcus sp. RCC809	37682
VOLCA	Archaeplastida	Chlorophyta	Chlorophyceae	Chlamydomonadales	Volvocaceae	Volvox carteri	56636
GONPE	Archaeplastida	Chlorophyta	Chlorophyceae	Chlamydomonadales	Volvocaceae	Gonium pectorale	228871
QSTLU	Archaeplastida	Chlorophyta	prasinophytes	Mamiellales	Bathycoccaceae	Ostreococcus lucimarinus	228872
VITVI	Archaeplastida	eudicots	rosids	Vitales	Vitaceae	Vitis vinifera	228873
BOEST	Archaeplastida	eudicots	rosids	Brassicales	Brassicaceae	Boechera stricta	228874
CAPGR	Archaeplastida	eudicots	rosids	Brassicales	Brassicaceae	Capsella grandiflora	228875
CAPRU	Archaeplastida	eudicots	rosids	Brassicales	Brassicaceae	Capsella rubella	228876
SALPU	Archaeplastida	eudicots	rosids	Malpighiales	Salicaceae	Volvocaceae	228877
THEHA	Archaeplastida	eudicots	rosids	Brassicales	Brassicaceae	Thellungiella halophila	228878
NICBE	Archaeplastida	eudicots	asterids	Solanales	Solanaceae	Nicotiana benthamiana	228879
ACTCH	Archaeplastida	eudicots	asterids	Ericales	Actinidiaceae	Actinidia chinensis	228880
COFCA	Archaeplastida	eudicots	asterids	Gentianales	Rubiaceae	Coffea canephora	228881
MIMGU	Archaeplastida	eudicots	asterids	Lamiales	Phrymaceae	Mimulus guttatus	228882
SOLLY	Archaeplastida	eudicots	asterids	Solanales	Solanaceae	Volvocaceae	228883

The Number at the end is the NCBI TaxID.

#### Import TAP Rules

Please import the rule file from the TAPscan script rules\_v81.txt

```
1 scABI3/VP1;AP2;should not
2 ABI3/VP1;Auxin_resp;should not
3 ABI3/VP1;B3;should
4 ABI3/VP1;WRKY;should not
5 Alfin-like;Alfin-like;should
6 Alfin-like;Homeobox;should not
7 Alfin-like;zf-TAZ;should not
8 Alfin-like;PHD;should not
9 AP2;AP2;should
10 AP2;CRF;should not
11 ARF;Auxin_resp;should
12 Argonaute;Piwi;should
13 Argonaute;PAZ;should
14 ARID;ARID;should
15 Aux/IAA;AUX_IAA;should
16 Aux/IAA;Auxin_resp;should not
17 Aux/IAA;B3;should not
18 BBR/BPC;GAGA_bind;should
19 BES1;BES1_N;should
20 bHLH;HLH;should
21 bHLH;TCP;should not
22 bHLH_TCP;TCP;should
23 bHSH;TF_AP-2;should
24 BSD domain containing;BSD;should
25 bZIP1;bZIP_1;should
26 bZIP1;HLH;should not
```

Import TAP Infos

Prepare tap\_infox.csv

	A	B	
1	ADA2	Bienz (2006): PHD	<p>1) Test 123483</p><p>2) Bienz, M. 2006. TI
2	Dicer	Information about	Reference see line 1
3	BES1	Information about	Reference see line 1
4			
5			

Column A is the TAP name. B is the Information about the TAP. Column C are the references for this TAP. Unfortunately right now only with RAW HTML:

<p>1) Test 123483</p><p>2) Bienz, M. 2006. The PHD finger, a nuclear protein-interaction domain. Trends Biochem. Sci. 31(1):35-40 PubMed<p><p>3) Lang, D; Weiche, B; Timmerhaus, G; Richardt, S; Riano-Pachon, DM; Correa, LG; Reski, R; Mueller-Roeber, B; Rensing, SA. 2010. Genome-wide phylogenetic comparative analysis of plant transcriptional regulation: a timeline of loss, gain, expansion, and correlation with complexity. Genome Biol Evol. 2: 488-503 PubMed.<p><p>4) Bienz, M. 2006. The PHD finger, a nuclear protein-interaction domain. Trends Biochem. Sci. 31(1):35-40 PubMed<p><p>5) Lang, D; Weiche, B; Timmerhaus, G; Richardt, S; Riano-Pachon, DM; Correa, LG; Reski, R; Mueller-Roeber, B; Rensing, SA. 2010. Genome-wide phylogenetic comparative analysis of plant transcriptional regulation: a timeline of loss, gain, expansion, and correlation with complexity. Genome Biol Evol. 2: 488-503 PubMed.<p>

Import TAPs

Please import TAPs "output.3" files -> AMBTR.output.3

Right now only one TAP file can be uploaded at a time. Working on a python script that automaticlally imports all the tap files.

## Main View

0_no_family_found2603	CPP19	ADA27	HAT187	RWP-RK81	C2H2419
C3H179	HSF61	NFY109	DUF833 domain containing/TANGO211	bHLH483	Argonaute39
Sir216	bZIP201	SET188	AP2368	PHD125	LIM21
SWI/SNF_SNF2182	FHA70	TRAF193	Jumonji_Other57	mTERF167	MYB511
CSD9	GIF10	PcG_MSI21	HDZ113	C2C2_GATA83	E2F/DP26
TUB34	SWI/SNF_SWI317	BSD domain containing32	Zinc finger, AN1 and A20 type32	Zinc finger, MIZ type16	SOH15
GARP_G2-like128	Sigma70-like25	ARID31	MADS116	SWI/SNF_BAF60b45	Alfin-like23
Sin332	RRN38	IWS132	Rcd1-like11	DUF547 domain containing45	Med65
HD-other18	MBF111	ARF63	TFb25	Med79	DDT27
DUF632 domain containing52	NAC250	MADS_MIKC95	SRS23	DUF246 domain containing/O-FucT132	Trihelix95
SBP50	HD_KNOX27	HD_PHD8	GARP_ARR-B34	PLATZ33	LBD109
HD_BEL25	LUG14	WRKY168	Aux/IAA77	tify48	ABI3/VP1118
DBP12	LDL/FLD19	C2C2_YABBY21	OPF53	GRAS154	DUF296 domain containing73
C2C2_Dof90	BBR/BPC19	GRF27	C2C2_CO-like24	Pseudo ARR-B11	HD_PINTOX4
HD_PLINC44	HD_WOX43	HD-SAWADEE5	BES123	RB4	LFY4
Coactivator p159	Dicer5	VOZ5	EIL12	HD-NDX4	HD_KNOX113
SAP4	PcG_EZ12	CAMTA15	ZPR9	GeBP35	S1Fa-like6
Zinc finger, ZPR18	ET6	HD-LD4	HD_DDT6	ALOG22	Jumonji_PKDM710
Whirly9	PcG_VEFS7	PcG_FIE4	ULT2	NZZ1	

Colors have to be adjusted for different Transcription Factors. The color is based on the TapInfo Table that is imported - TR/TF/PT is then set accordingly. Color can be change here:

index.blade.php

species.blade.php

table.blade.php

> vendor

> visualization

dashboard.blade.php

home.blade.php

index.blade.php

layout.blade.php

tap.blade.php

welcome.blade.php

routes

api.php

auth.php

channels.php

20</div>

21|

22</div>

23</div>

24

25<style>

26

27.TF { color:#FFFF00; }

28.TR { color:#00FF00; }

29.PT { color:#00FF60; }

30

31</style>

32

33<div class="container">

34|<div class="row row-cols-6">

35@foreach (\$tap\_count as \$tap)

## Tap View

TapScan - v4

Undefined array key 0

TapScan - v4

+

←

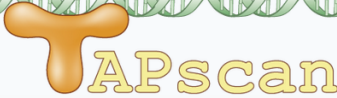

→

↻

🔒 0.0.0.0/tap/Dicer

📄

☆



TAPscan

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TAP Family: Dicer

Hier steht auch irgendeinkram drin

References:

1) Test 123483

2) Bienz, M. 2006. The PHD finger, a nuclear protein-interaction domain. Trends Biochem. Sci. 31(1):35-40 PubMed

3) Lang, D; Weiche, B; Timmerhaus, G; Richardt, S; Riano-Pachon, DM; Correa, LG; Reski, R; Mueller-Roeber, B; Rensing, SA. 2010. Genome-wide phylogenetic comparative analysis of plant transcriptional regulation: a timeline of loss, gain, expansion, and correlation with complexity. Genome Biol Evol. 2: 488-503 PubMed.

4) Bienz, M. 2006. The PHD finger, a nuclear protein-interaction domain. Trends Biochem. Sci. 31(1):35-40 PubMed

5) Lang, D; Weiche, B; Timmerhaus, G; Richardt, S; Riano-Pachon, DM; Correa, LG; Reski, R; Mueller-Roeber, B; Rensing, SA. 2010. Genome-wide phylogenetic comparative analysis of plant transcriptional regulation: a timeline of loss, gain, expansion, and correlation with complexity. Genome Biol Evol. 2: 488-503 PubMed.

Name:

Dicer

Class:

TF

Number of species containing the TAP:

2

Number of available proteins:

9571

Domain rules:

DEAD

Helicase\_C

Ribonuclease\_3

dsm

Piwi

TAP distribution:

Minimum	Maximum	Average	Median	Standard deviation
2	3	2.5	2.5	[2.3]

[Impressum](#) • [Datenschutzerklärung](#)

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General Information about this TAP.

Will bring an Error if no information was uploaded in to the database about this TAP.

🔒 0.0.0.0/tap/GIF

📄

☆

 /var/www/html/

ErrorException

Undefined array key 0

<http://0.0.0.0/tap/GIF>

# Species View

TapScan - v4   Undefined array key 0   TapScan - v4   +

0.0.0.0/species

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## TAPscan - Families

This is a list of all TAPs covered by the TAPscan web page. Clicking them will lead you to a list of species in which these TAP families occur. The number of proteins containing the respective TAP is written in brackets after its name.

The colour code corresponds to TAP classes: Transcriptional regulation is carried out by transcription associated proteins (TAPs), comprising transcription factors (TFs, binding in sequence-specific manner to cis-regulatory elements to enhance or repress transcription), transcriptional regulators (TRs, acting as part of the transcription core complex, via unspecific binding, protein-protein interaction or chromatin modification) and putative TAPs (PTs), the role of which needs to be determined.

- Archaeplastida
  - Chlorophyta
  - eudicots
    - rosids
    - asterids
    - stem rosids
      - Caryophyllales
        - Brassicaceae
          - Boechera stricta
          - Capsella grandiflora
          - Capsella rubella
          - Thellungiella halophila
          - Camelina sativa
          - Gossypium raimondii
          - Volyocaceae
          - Arabidopsis lyrata
          - Arabidopsis thaliana

## Tap Sequences View

TapScan - v4
Undefined array key 0
TapScan - v4
TapScan - v4
TapScan - v4

0.0.0.0/species/33/tap/sbp

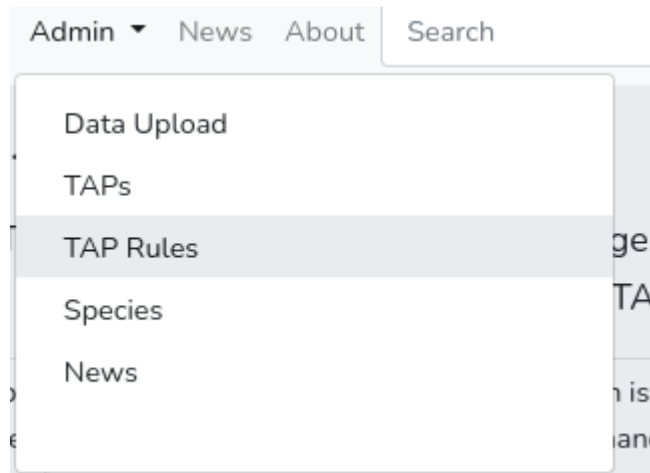
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## Table of Species Arabidopsis thaliana with TAP SBP

No.	ID	TAP 1	TAP 2	Sequence
1	ARATH_AT2 G33810.1	SBP	-	MSMRRSKAEGKRLRELSEEEEEDETEDETFEEEALEKKQKKGATSSGVCQVESCTADMSKAKYQHKR HKVCQHAKAPHVRISGLHQRFCQCSRFBALSEFDEAKRRCRRRLAGHNERRRKSTTD
2	ARATH_AT2 G42200.1	SBP	-	MEMSGNSGPGHGPQAEESGSSSTESSFSGGLMFGQKIYFDDGGGSGSSSSGGRNRRVRGGSGQSG QIPRCQVEGGMDLTNAKYYSRHRVCGVHSKTPKVTVAGIEQFCQCSRFBHLEFDEKRSRRCRRRLAG HNERRRPQPASLSVLAARYGRIAPSLYENGDAAGMNGSFLNGQIEGWPSRRLDTRVMRRPVSPPSWQIN PMNVFSQSGVGGGGTSFSSPEIMDTKLESYKIGDSCNALSLSNPHQPHDNNNNNNNNNNNTWRA SSGFGPMTVTMAQPPAPSPHQVLPNPVVFKDNDNDMSPLNLGRYTEPNQCISGTAAGFEFLSDHH HQSRRQYMEDENTRAYDSSSHHTNWSL
3	ARATH_AT2 G47070.1	SBP	-	MEARIDEGGEAQFYGSGVGRSVEWLDNDWKWDGDLFLATQTRGRQFFPLGNSSNSSSSCSDEGNDKK RRAVAIQDGTNGALTNLNGESDGLFPAKTKSGAVCQVENCEADLSKVDYHRRHKVCEMHSAKATSATVG GILQRFQCCSRFBHLEFDEKRSRRCRRRLAGHNRKRTKNPEPGANGNPSDDHSSNYLLTLKLSNMHN HTGDQLMSHLKSLVSHAGEQLGKNLVELLLQGGSGQSLNIGNSALLGIEQAPQEELEKQFSARQDGTATE NRSEKQVKMNDFDLNDIYDSDTDVERSPPPTNPATSSLDYPSWVHQSSPPQTSRNSDSASDQSPSSSSE DAQMRTGRVFKLGKEPNEFPIVLRGQILDWLSHSPTDMESYIRPGCIVLTYLRQAETAWEELSDDLGFLSG KLLDLSDDPLTWGTYWYVRVQNQLAFVYNGQVVVDTSLSKSRDYSHIISVCLPAIAATEKAQFTVKGMNLR QRGTRLLCSVEGKYLIQETTHDSTTREDDDFKDNSEIVECVNFSFCDMPILSGRGFMIEDQGLSSFFPLFVLE DDVCSEIRILETTLEFTGDSAKQAMDIFHEIGWLLHRSKLGESDPNGVFLPIRFQWLFIEFSMDREWCVAI RKLLNMFFDGAVGFESSSNATLSLCLLHRAVRKNSKPMVEMLLRIPYKQQRNSLFRPDAAGPAGLPLHI AAGKDGSVDLDALEDPANVMGAEAWKTCRDSTGTPTEDYARLGRHFSYIHUQRKINKKSTTEOHVAVVNPV SFSREQKEPKSGPMASALEITQIPCKLCHKLVYGTTRRSVAYRPAMLSMVAJAAVCVCVALLFKSCPEVLY VFQFFRWELLDYGTG

## Admin

If you login you have access to the admin interface.



specific binding, protein-protein interaction or chroma

You can Upload Data here and look up other information.

## Upload

### Upload Data to Databases

Please fill the database in the correct order.

Note: Since there is a performance bottleneck, the first TAPs migration should be run with the accompanied script. If you want to update TAPs in the future you can use this Upload function.

Import species

Import rules

Import tap

Import tapinfo

First time please upload the files from top to bottom.

## TAPs / TAP rules

Gives you an overview of all the data that is in the database. You can look up what rules apply and which TAPs are in the database.

<input type="text" value="Search by: TAP 1"/>		<input type="text" value="20"/>
⬆ TAP 1	⬆ TAP 2	Rule
ABI3/VP1	Auxin_resp	should not
ABI3/VP1	B3	should
ABI3/VP1	WRKY	should not
ABI3/VP1	AP2	should not
ADA2	zz-ADA2	should
ADA2	Myb_DNA-binding	should
Alfin-like	Alfin-like	should
Alfin-like	Homeobox	should not
Alfin-like	zf-TAZ	should not
Alfin-like	PHD	should not
ALOG	ALOG	should
AP2	CRF	should not

## Species / News

Here you can also look up information - but you can also change settings in the database if maybe the species name changes.

### Edit Species: Actinidia chinensis

Name:

TaxID



Also add new News Site also. This is done by the little icon buttons on the right:



Show/Edit/Delete

For the News you can create news directly on the website:

<input type="text" value="Search by: Name"/>		<input type="text" value="20"/>	<input type="button" value="Create"/>
Name	⬆ Created at	⬆ Updated at	Actions
test	18/04/2023 19:06	18/04/2023 19:06	<input type="button" value="Show"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Showing results 1 to 1 on 1			