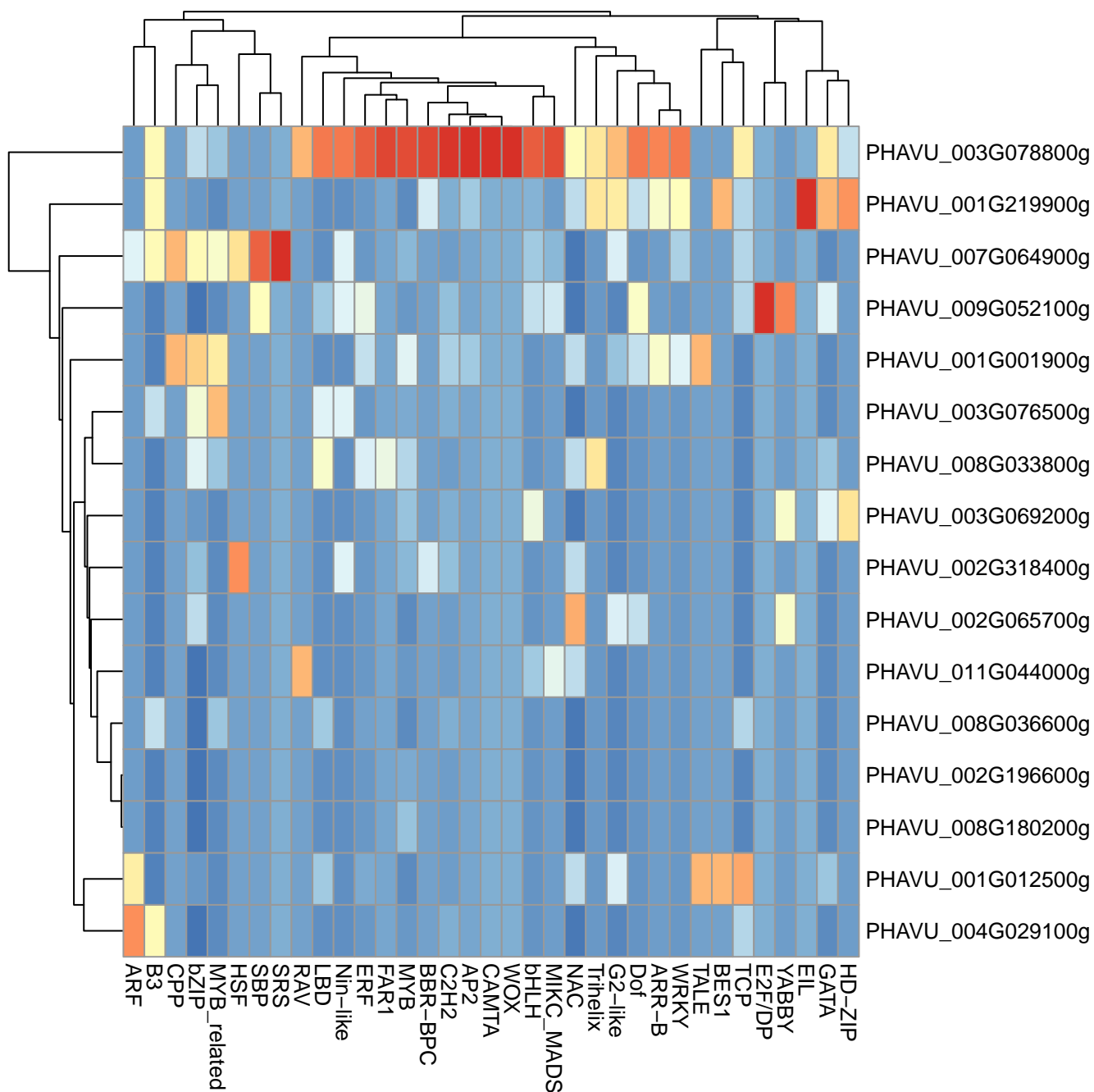


*Presence of Conserved Motifs  
on Gene Promoters*

## Heatmap of motif presence on gene promoters

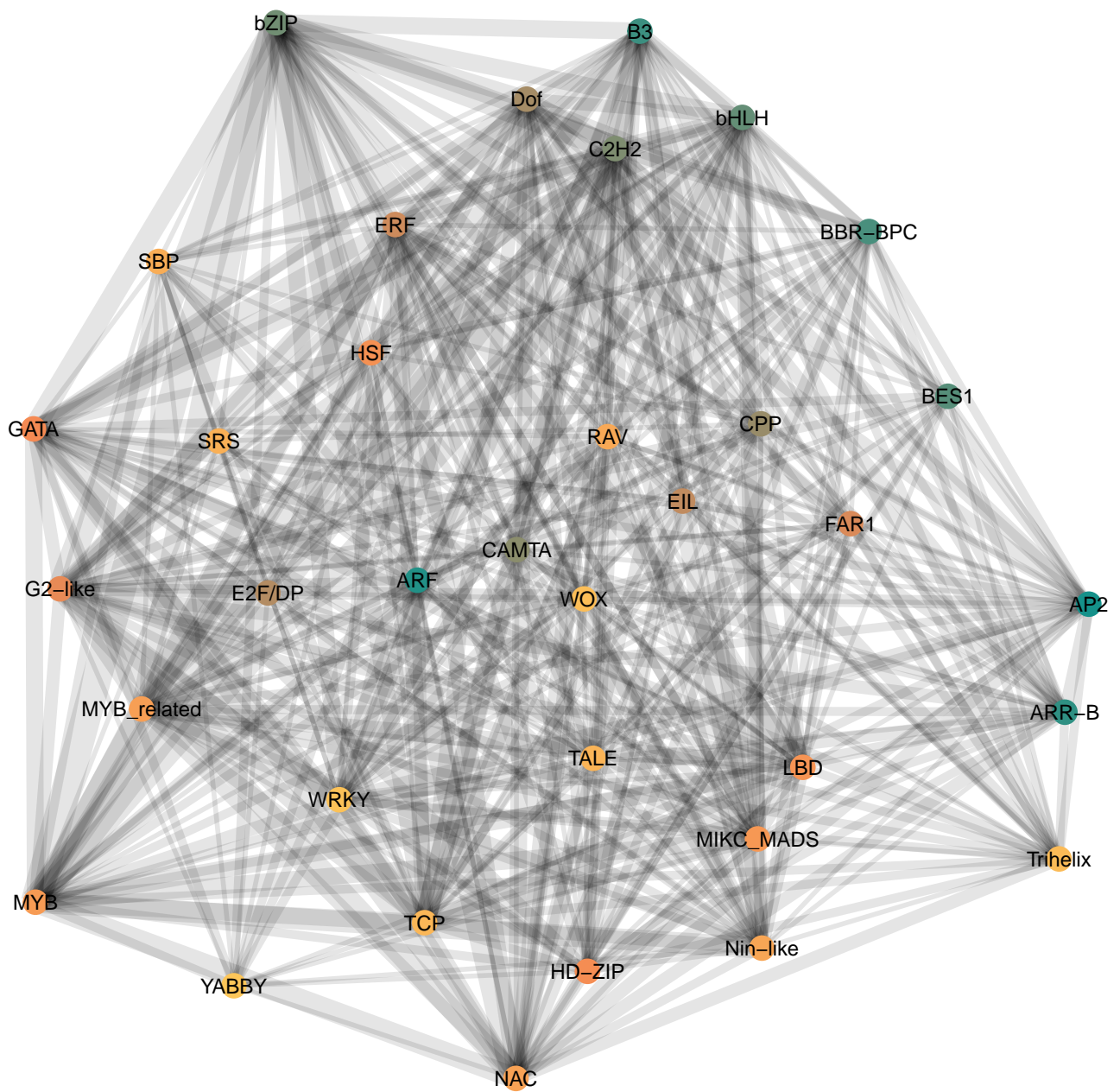
The heatmap shows the presence or absence of conserved motifs on gene promoters.  
Each row represents a gene, and each column represents motifs.  
Motifs are grouped by transcription factor family.  
Red boxes indicate relatively high number of motifs on a promoter.



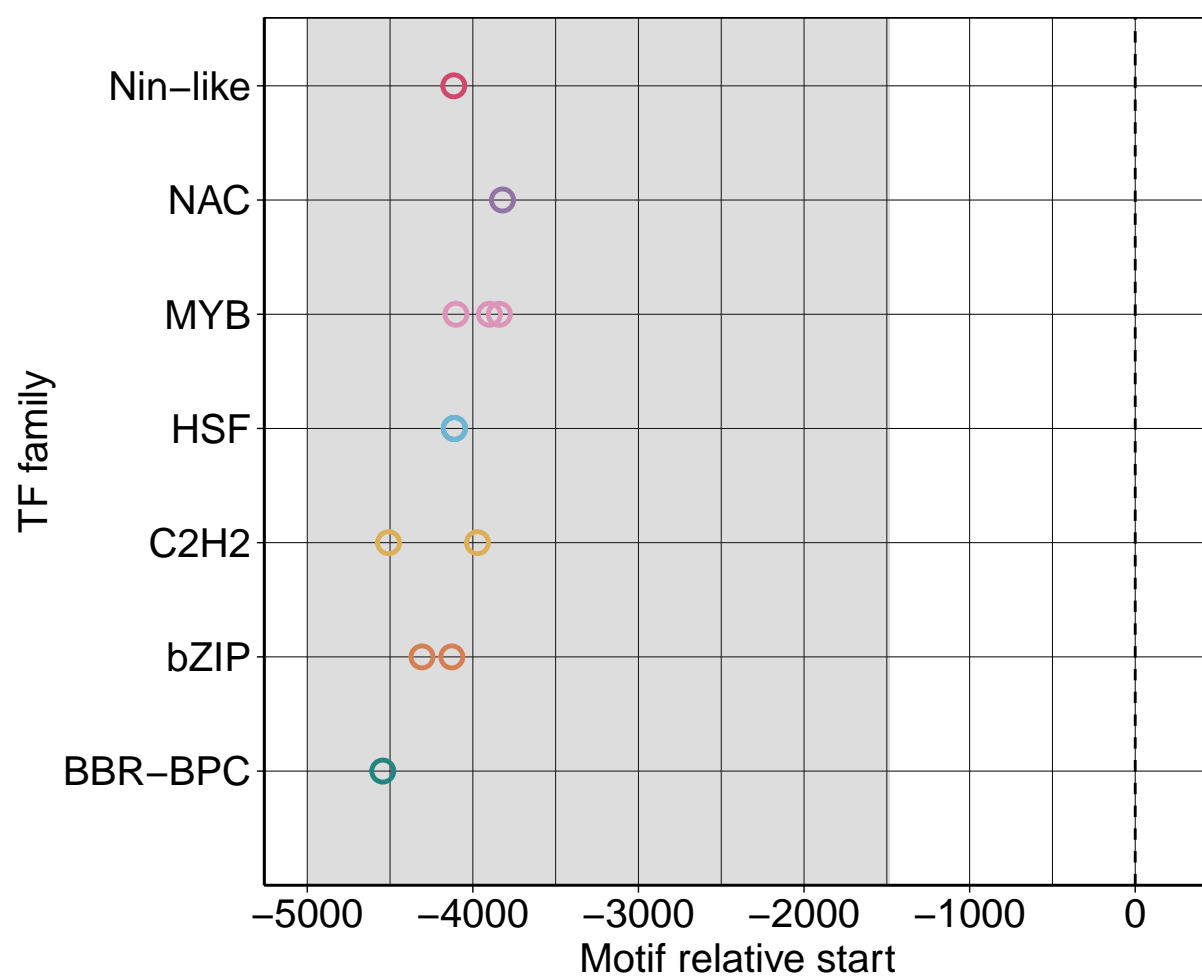
## Network plot of transcription factor families

The network plot shows the relationships between transcription factor families based on their co-occurrence on gene promoters.

Nodes represent transcription factor families,  
and edges represent co-occurrence.

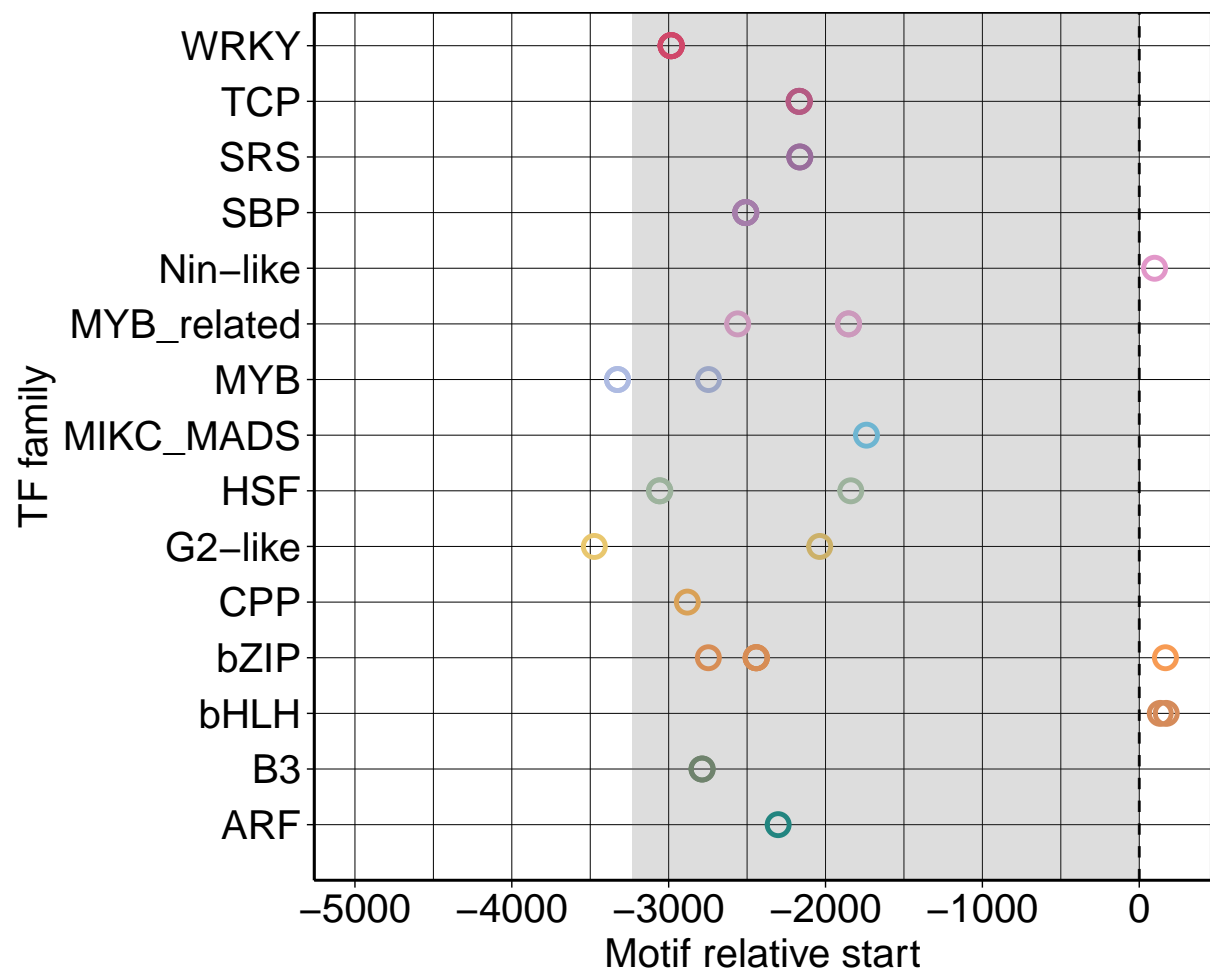


# PHAVU\_002G318400g



TF.family	Motifs.count	Binomial.statistics	Gene
BBR-BPC	1	0.14444448957	PHAVU_002G318400g
bZIP	2	0.1344271335	PHAVU_002G318400g
C2H2	2	0.2410077107	PHAVU_002G318400g
HSF	4	0.0000932139	PHAVU_002G318400g
MYB	3	0.1724719316	PHAVU_002G318400g
NAC	1	0.5623914541	PHAVU_002G318400g
Nin-like	1	0.1382754097	PHAVU_002G318400g

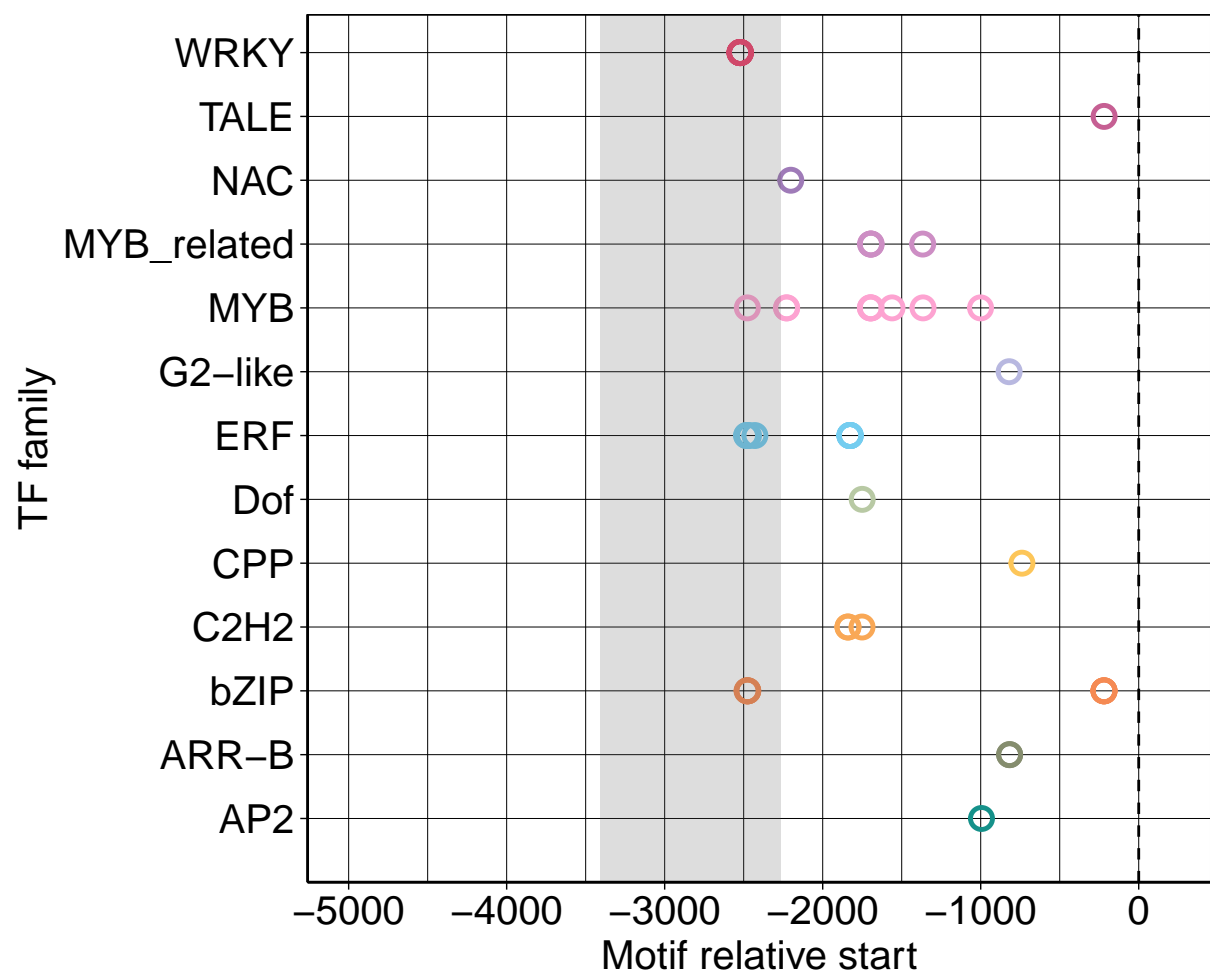
# PHAVU\_007G064900g





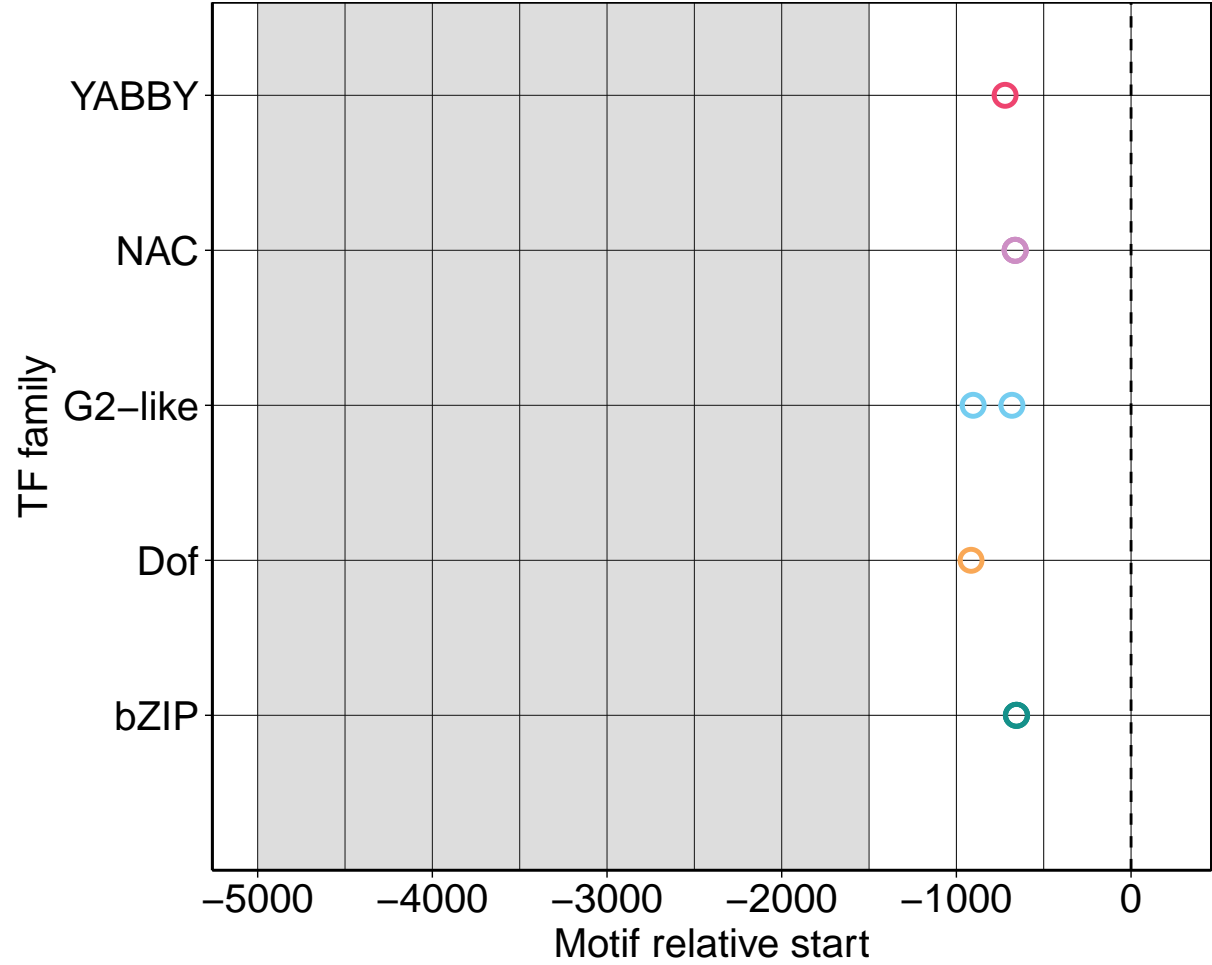
TF.family	Motifs.count	Binomial.statistics	Gene
ARF	1	0.4070182797	PHAVU_007G064900g
B3	2	0.2337011816	PHAVU_007G064900g
bHLH	2	0.7383666298	PHAVU_007G064900g
bZIP	6	0.0085061630	PHAVU_007G064900g
CPP	1	0.3139134735	PHAVU_007G064900g
G2-like	2	0.2566068140	PHAVU_007G064900g
HSF	3	0.0334807693	PHAVU_007G064900g
MIKC_MADS	1	0.6706708979	PHAVU_007G064900g
MYB	3	0.7862143470	PHAVU_007G064900g
MYB_related	3	0.1484153585	PHAVU_007G064900g
Nin-like	1	0.3393749026	PHAVU_007G064900g
SBP	4	0.0001559477	PHAVU_007G064900g
SRS	2	0.0024544560	PHAVU_007G064900g
TCP	3	0.2542251276	PHAVU_007G064900g
WRKY	5	0.0383312267	PHAVU_007G064900g

# PHAVU\_001G001900g



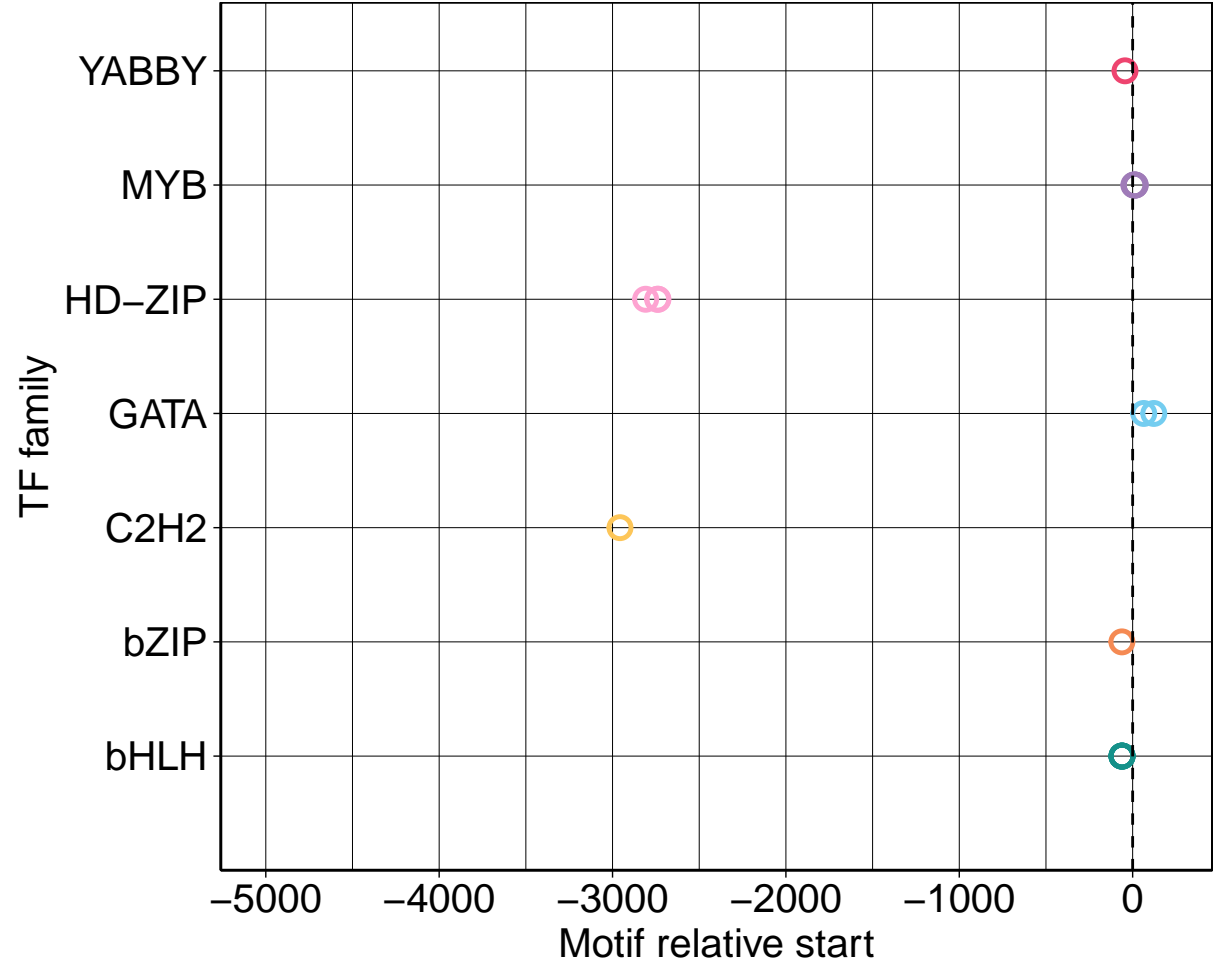
TF.family	Motifs.count	Binomial.statistics	Gene
AP2	1	0.5511962778	PHAVU_001G001900g
ARR-B	2	0.0125292784	PHAVU_001G001900g
bZIP	8	0.0019483503	PHAVU_001G001900g
C2H2	3	0.6607291178	PHAVU_001G001900g
CPP	1	0.3830792939	PHAVU_001G001900g
Dof	1	0.8239391309	PHAVU_001G001900g
ERF	9	0.6040631862	PHAVU_001G001900g
G2-like	1	0.7196988523	PHAVU_001G001900g
MYB	9	0.0708931591	PHAVU_001G001900g
MYB_related	4	0.0916358536	PHAVU_001G001900g
NAC	1	0.9477407044	PHAVU_001G001900g
TALE	1	0.1193363660	PHAVU_001G001900g
WRKY	9	0.0005820015	PHAVU_001G001900g

PHAVU\_002G065700g



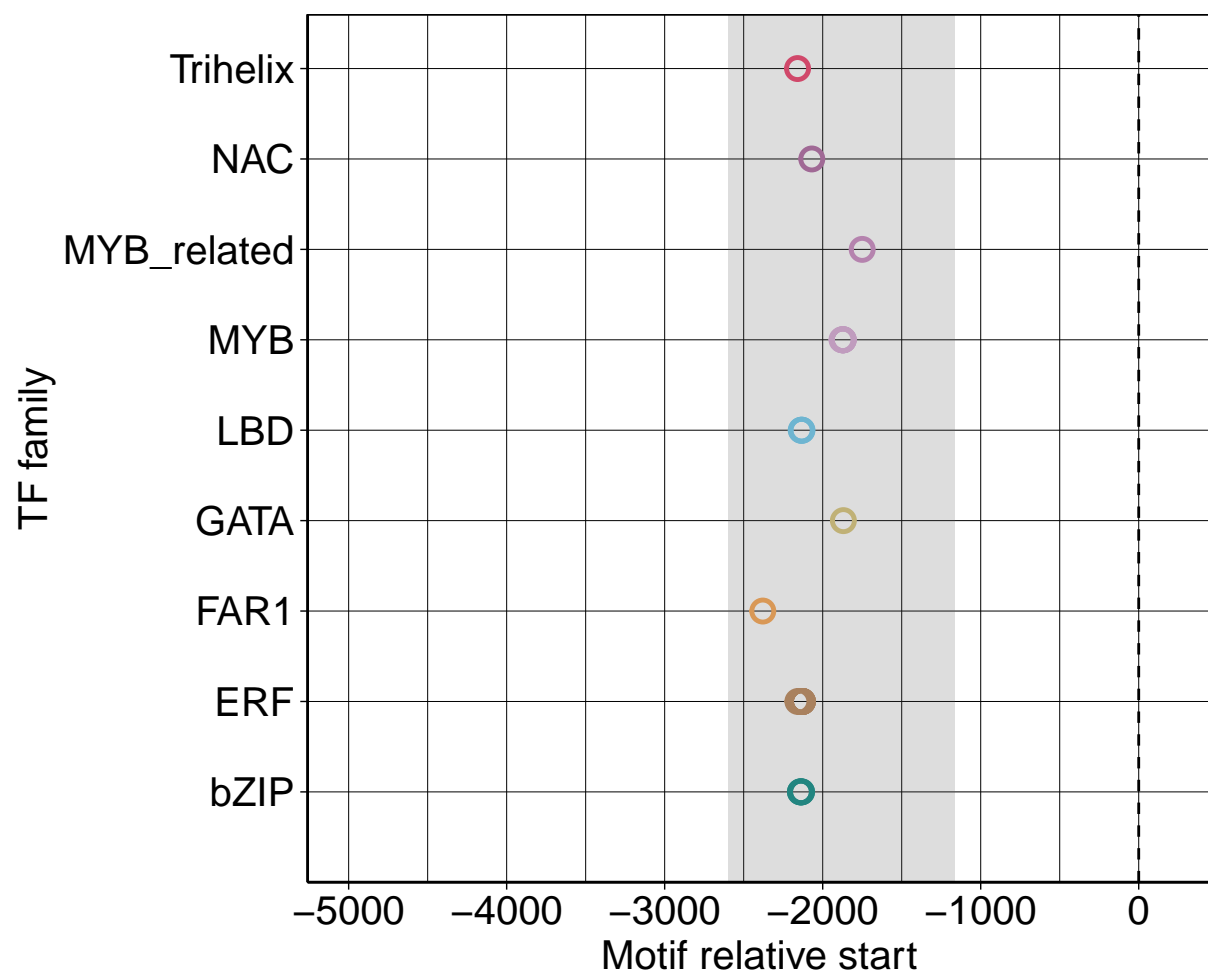
TF.family	Motifs.count	Binomial.statistics	Gene
bZIP	3	0.009244319	PHAVU_002G065700g
Dof	1	0.293466810	PHAVU_002G065700g
G2-like	2	0.024826884	PHAVU_002G065700g
NAC	3	0.016665056	PHAVU_002G065700g
YABBY	1	0.060548621	PHAVU_002G065700g

PHAVU\_003G069200g



TF.family	Motifs.count	Binomial.statistics	Gene
bHLH	5	0.003967637	PHAVU_003G069200g
bZIP	1	0.552266710	PHAVU_003G069200g
C2H2	1	0.692948317	PHAVU_003G069200g
GATA	2	0.082073374	PHAVU_003G069200g
HD-ZIP	3	0.007776773	PHAVU_003G069200g
MYB	4	0.092762637	PHAVU_003G069200g
YABBY	1	0.100737830	PHAVU_003G069200g

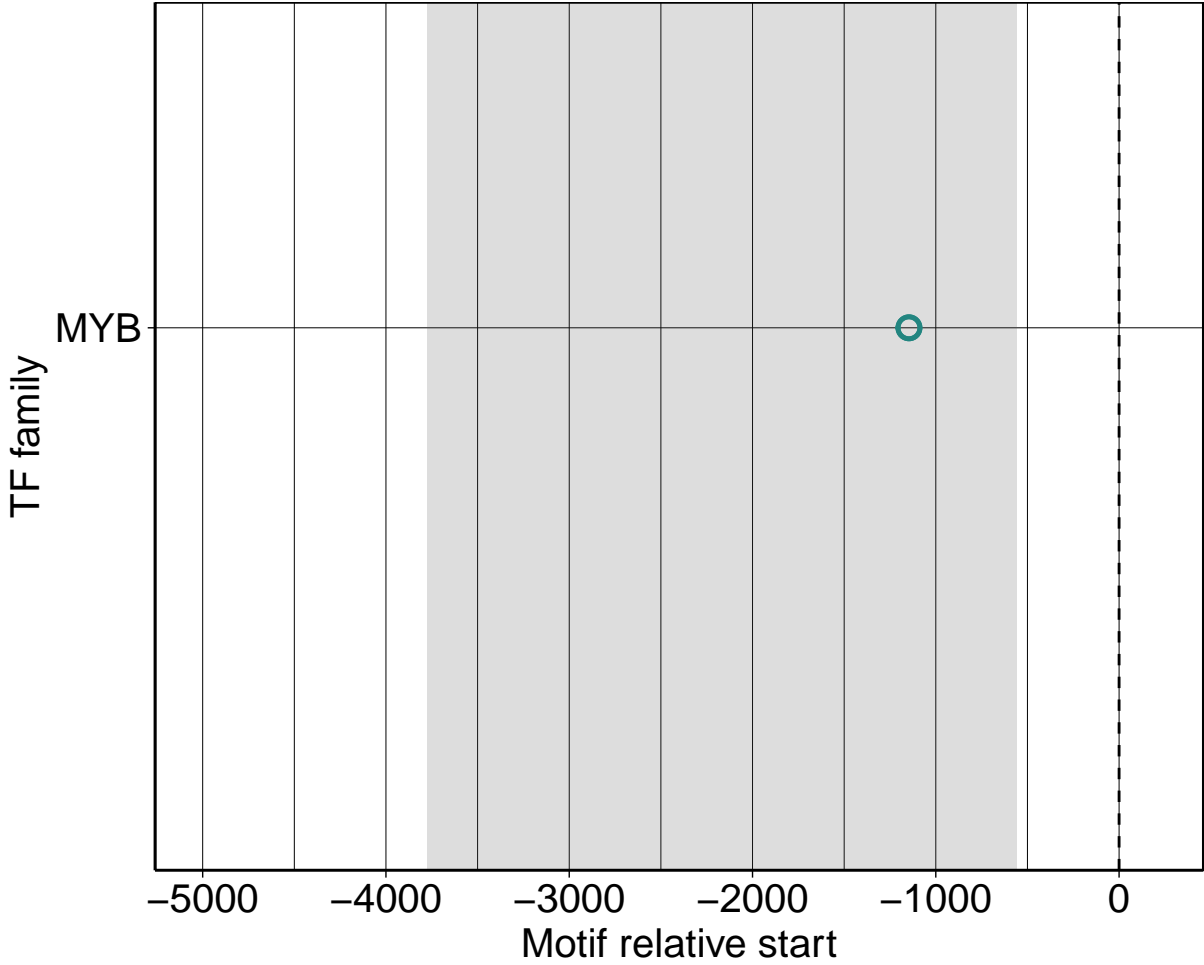
PHAVU\_008G033800g





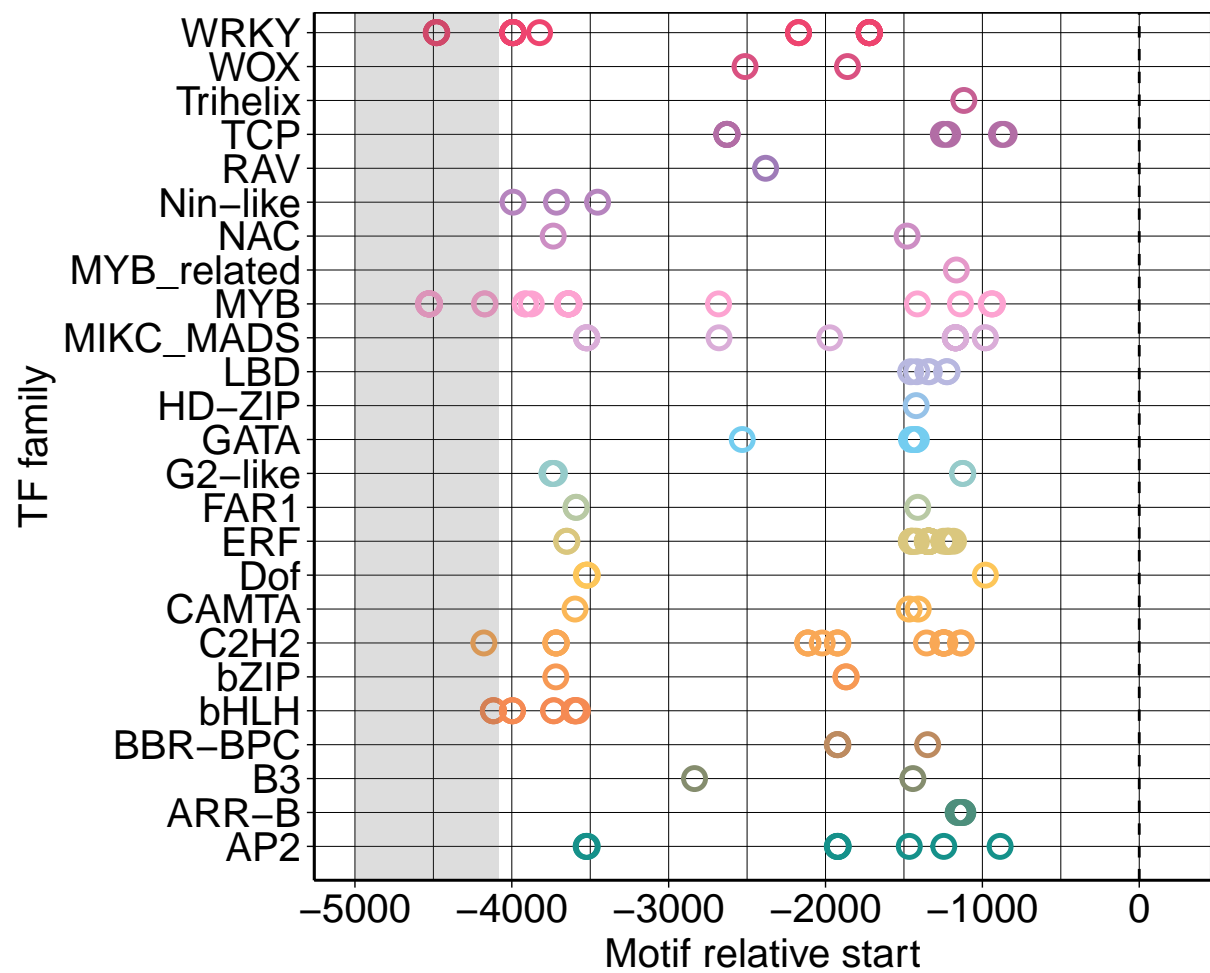
TF.family	Motifs.count	Binomial.statistics	Gene
bZIP	4	0.04294770	PHAVU_008G033800g
ERF	11	0.01185825	PHAVU_008G033800g
FAR1	1	0.13706295	PHAVU_008G033800g
GATA	1	0.56457869	PHAVU_008G033800g
LBD	3	0.02209318	PHAVU_008G033800g
MYB	6	0.07447207	PHAVU_008G033800g
MYB_related	1	0.63600650	PHAVU_008G033800g
NAC	1	0.81947604	PHAVU_008G033800g
Trihelix	1	0.33633667	PHAVU_008G033800g

PHAVU\_002G196600g



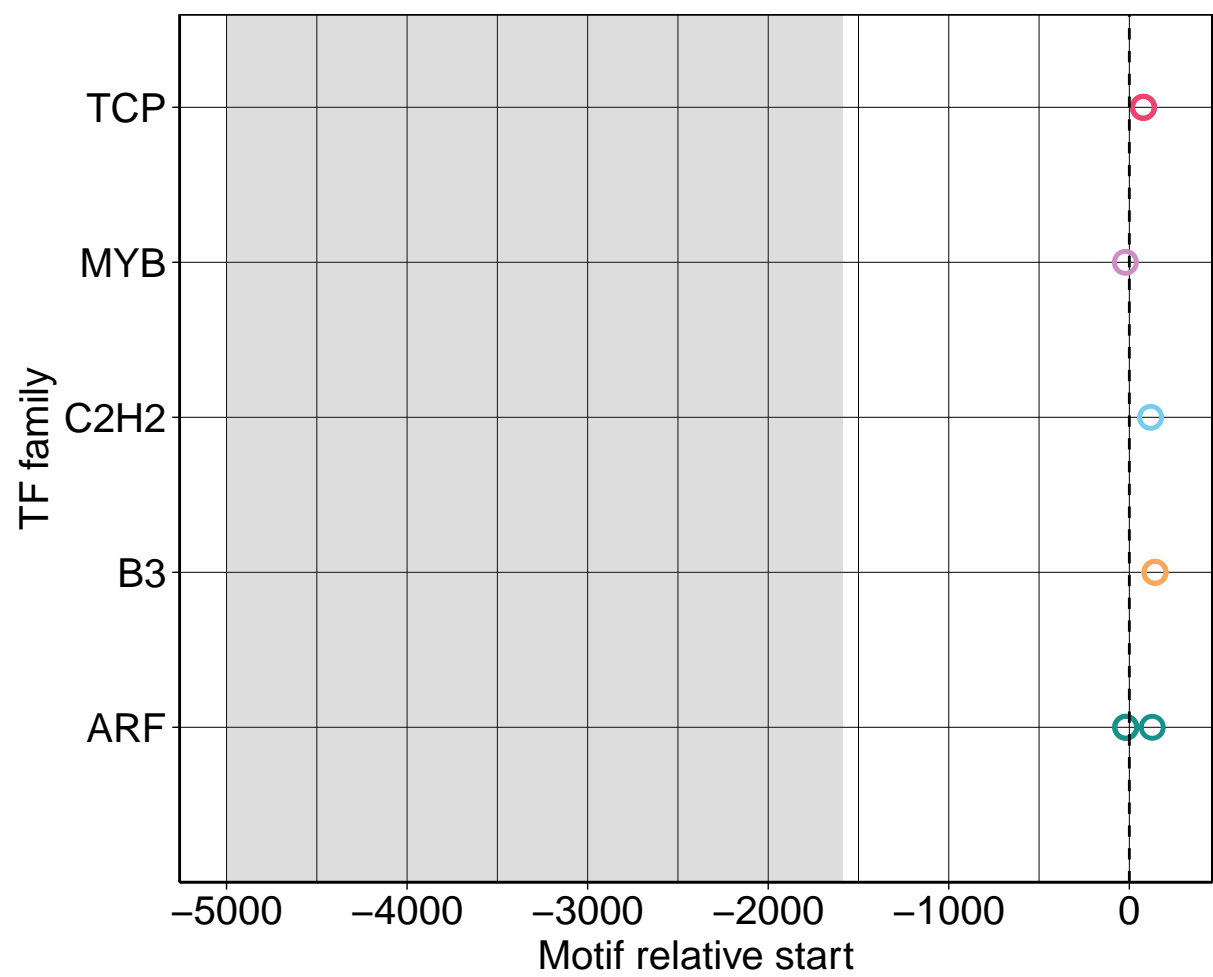
TF.family	Motifs.count	Binomial.statistics	Gene
MYB	2	0.01082762	PHAVU_002G196600g

# PHAVU\_003G078800g



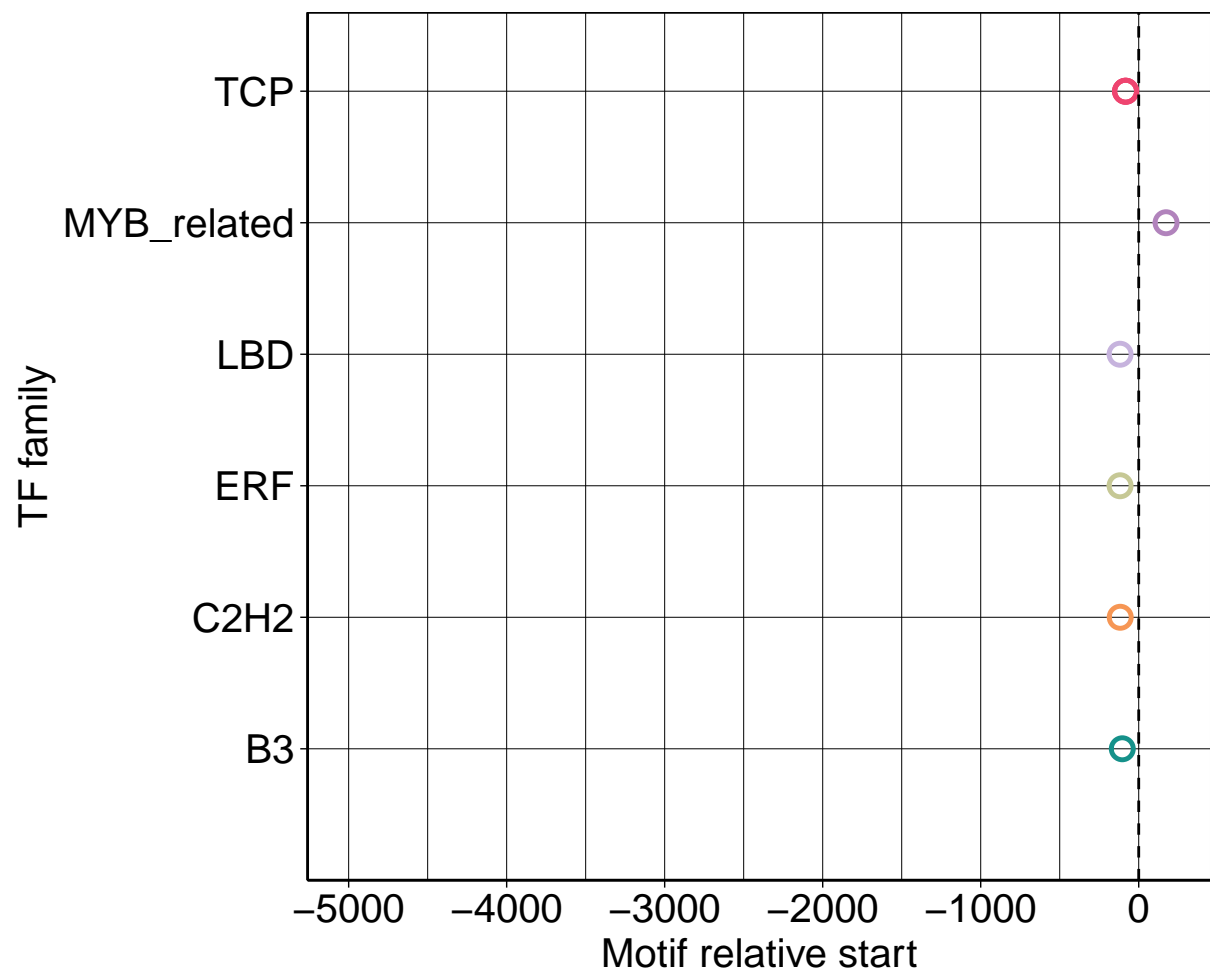
TF.family	Motifs.count	Binomial.statistics	Gene
AP2	10	2.312287e-03	PHAVU_003G078800g
ARR-B	4	6.086959e-03	PHAVU_003G078800g
B3	2	9.608145e-01	PHAVU_003G078800g
BBR-BPC	4	2.099855e-01	PHAVU_003G078800g
bHLH	13	6.484062e-01	PHAVU_003G078800g
bZIP	3	9.971694e-01	PHAVU_003G078800g
C2H2	22	2.854156e-02	PHAVU_003G078800g
CAMTA	3	8.150365e-02	PHAVU_003G078800g
Dof	4	9.331265e-01	PHAVU_003G078800g
ERF	38	6.344688e-01	PHAVU_003G078800g
FAR1	3	9.411847e-02	PHAVU_003G078800g
G2-like	5	6.172919e-01	PHAVU_003G078800g
GATA	4	8.518858e-01	PHAVU_003G078800g
HD-ZIP	1	9.948584e-01	PHAVU_003G078800g
LBD	6	2.822547e-01	PHAVU_003G078800g
MIKC_MADS	16	3.701959e-04	PHAVU_003G078800g
MYB	28	1.127898e-01	PHAVU_003G078800g
MYB_related	1	9.993814e-01	PHAVU_003G078800g
NAC	2	9.999490e-01	PHAVU_003G078800g
Nin-like	3	3.887650e-01	PHAVU_003G078800g
RAV	1	6.070469e-01	PHAVU_003G078800g
TCP	8	7.381951e-01	PHAVU_003G078800g
Trihelix	1	9.500682e-01	PHAVU_003G078800g
WOX	2	4.623267e-01	PHAVU_003G078800g
WRKY	28	1.535407e-06	PHAVU_003G078800g

PHAVU\_004G029100g



TF.family	Motifs.count	Binomial.statistics	Gene
ARF	3	0.0002638255	PHAVU_004G029100g
B3	2	0.0219853149	PHAVU_004G029100g
C2H2	1	0.5007021510	PHAVU_004G029100g
MYB	1	0.6667198472	PHAVU_004G029100g
TCP	3	0.0085360082	PHAVU_004G029100g

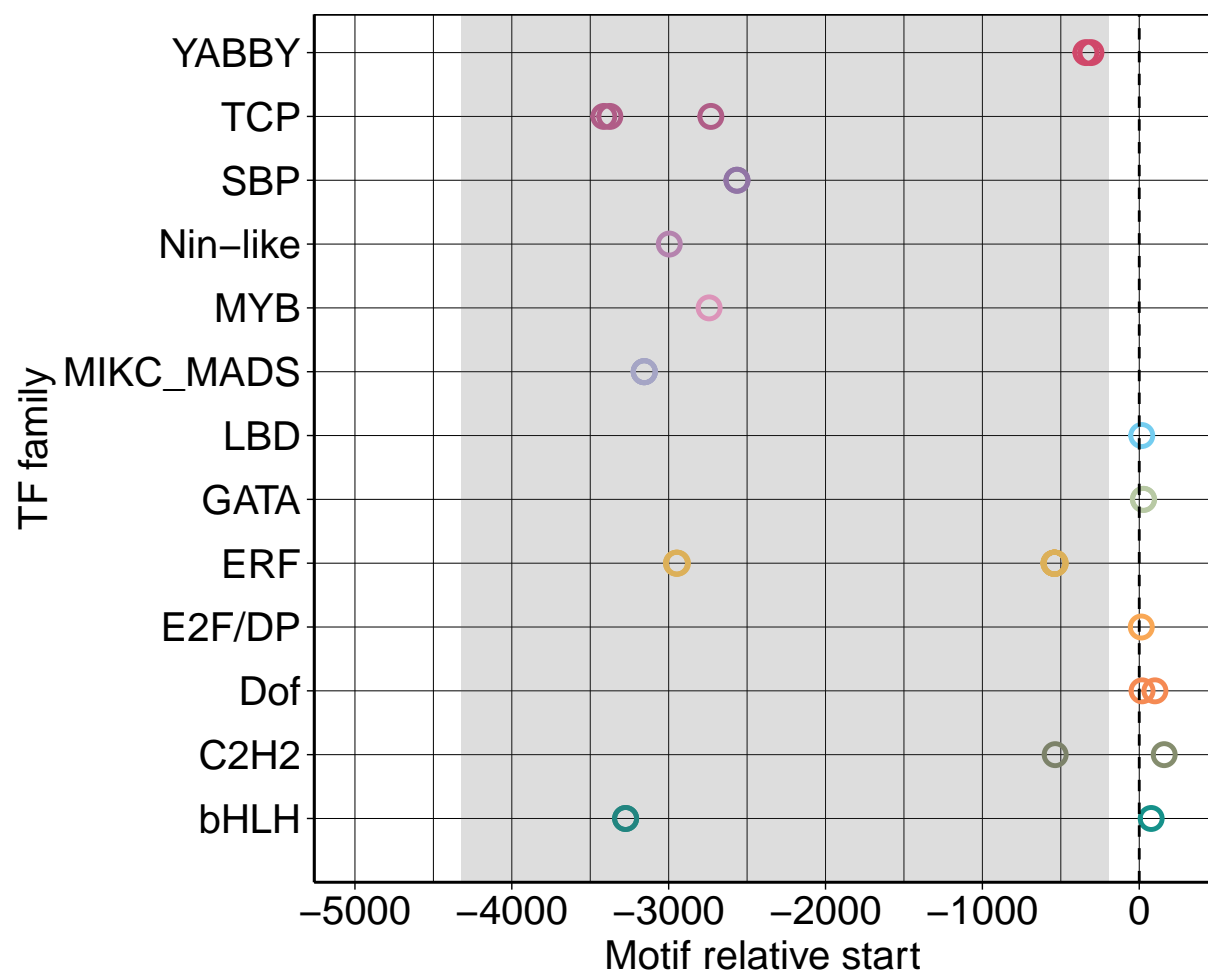
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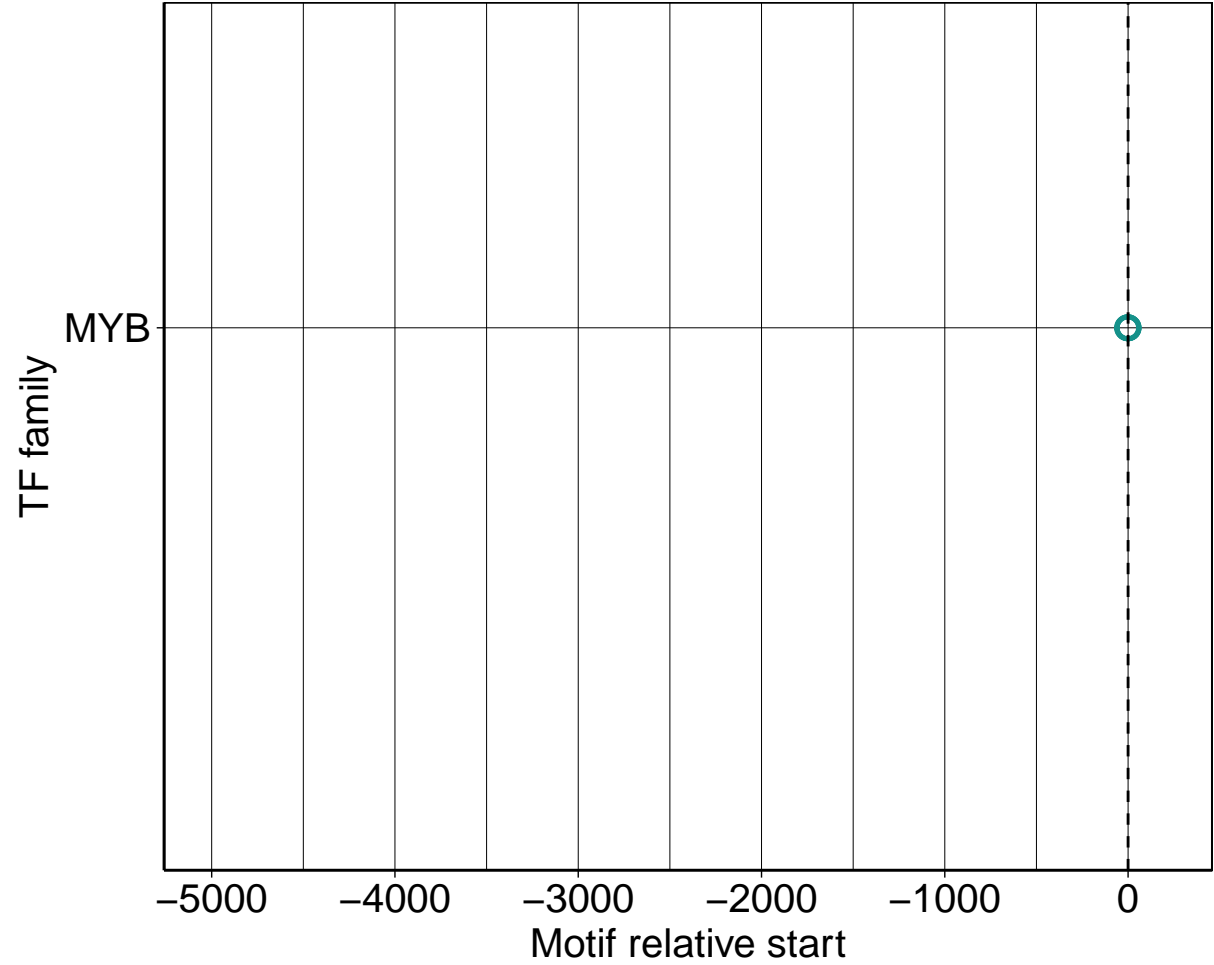
TF.family	Motifs.count	Binomial.statistics	Gene
B3	1	0.173489242	PHAVU_008G036600g
C2H2	1	0.426296161	PHAVU_008G036600g
ERF	1	0.808229689	PHAVU_008G036600g
LBD	1	0.155083982	PHAVU_008G036600g
MYB_related	1	0.243302357	PHAVU_008G036600g
TCP	3	0.004261775	PHAVU_008G036600g

PHAVU\_009G052100g



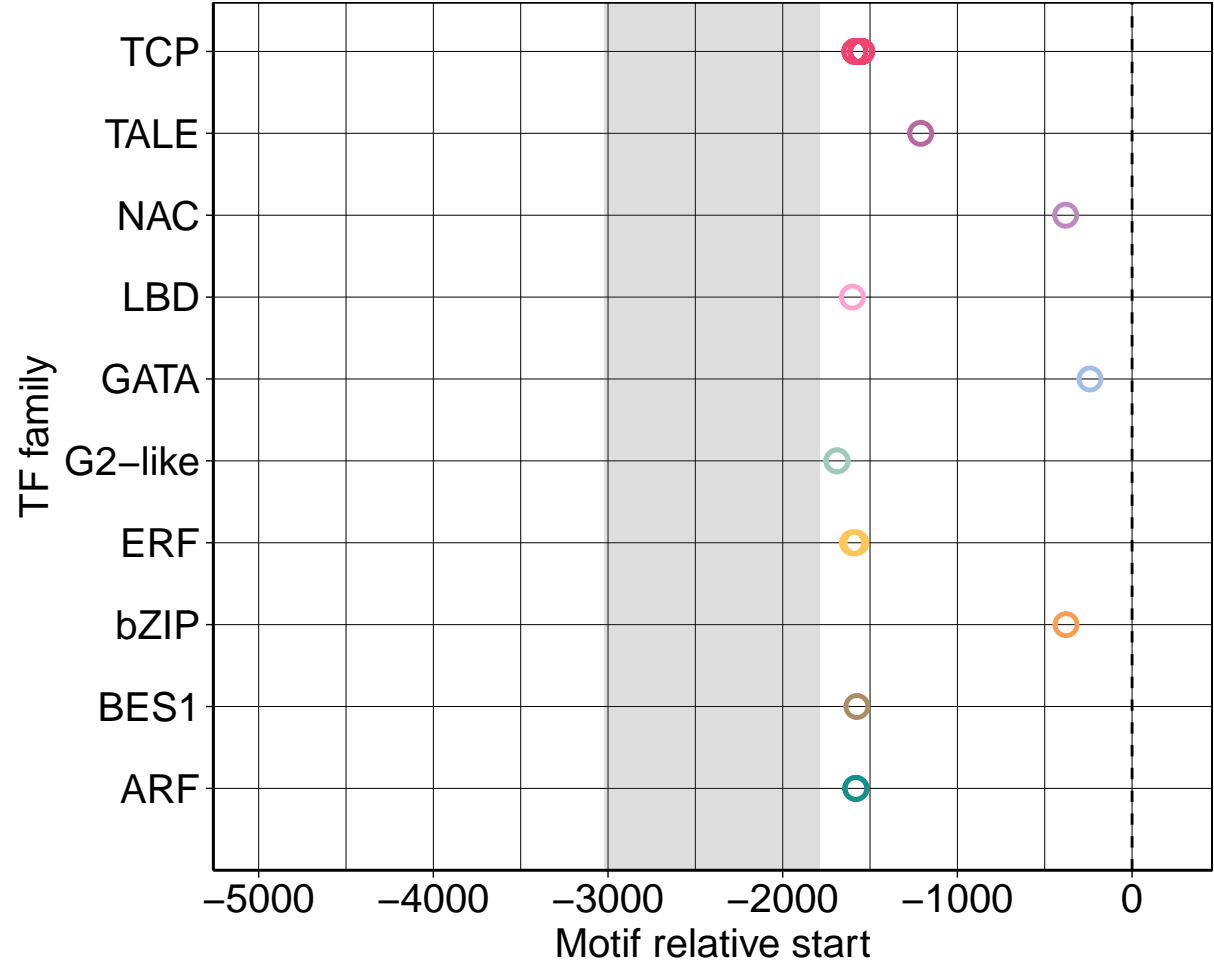
TF.family	Motifs.count	Binomial.statistics	Gene
bHLH	3	0.463090290	PHAVU_009G052100g
C2H2	2	0.733413440	PHAVU_009G052100g
Dof	2	0.374072279	PHAVU_009G052100g
E2F/DP	1	0.124538261	PHAVU_009G052100g
ERF	14	0.006461023	PHAVU_009G052100g
GATA	2	0.291810698	PHAVU_009G052100g
LBD	1	0.550877997	PHAVU_009G052100g
MIKC_MADS	4	0.021467250	PHAVU_009G052100g
MYB	1	0.984629927	PHAVU_009G052100g
Nin-like	1	0.332315022	PHAVU_009G052100g
SBP	2	0.028596879	PHAVU_009G052100g
TCP	3	0.242067524	PHAVU_009G052100g
YABBY	2	0.023496494	PHAVU_009G052100g

PHAVU\_008G180200g



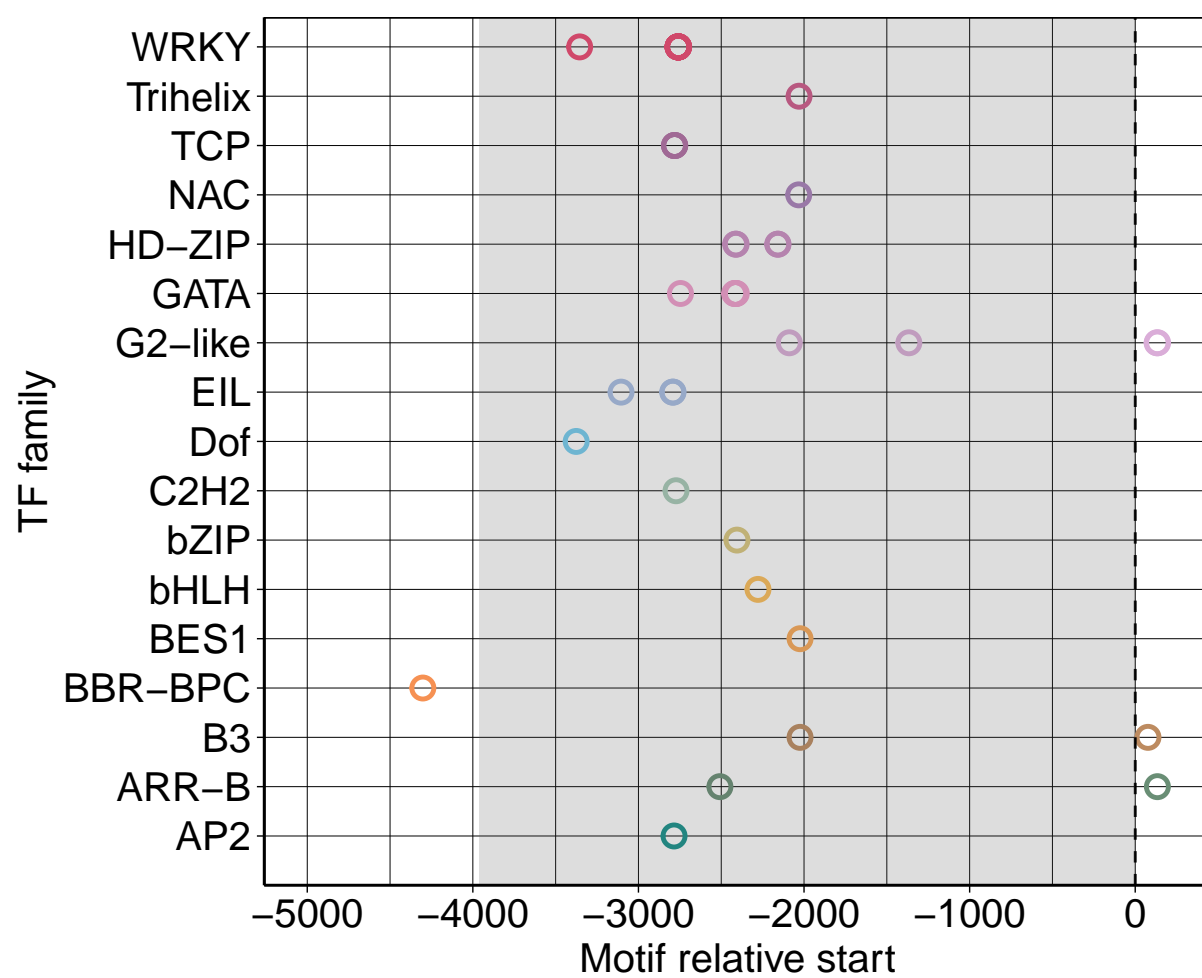
TF.family	Motifs.count	Binomial.statistics	Gene
MYB	4	0.0001172373	PHAVU_008G180200g

PHAVU\_001G012500g



TF.family	Motifs.count	Binomial.statistics	Gene
ARF	2	3.725093e-02	PHAVU_001G012500g
BES1	1	2.211945e-01	PHAVU_001G012500g
bZIP	1	6.628294e-01	PHAVU_001G012500g
ERF	2	9.456113e-01	PHAVU_001G012500g
G2-like	2	1.128292e-01	PHAVU_001G012500g
GATA	1	4.828482e-01	PHAVU_001G012500g
LBD	1	3.839883e-01	PHAVU_001G012500g
NAC	1	7.427501e-01	PHAVU_001G012500g
TALE	1	5.678081e-02	PHAVU_001G012500g
TCP	11	1.208380e-09	PHAVU_001G012500g

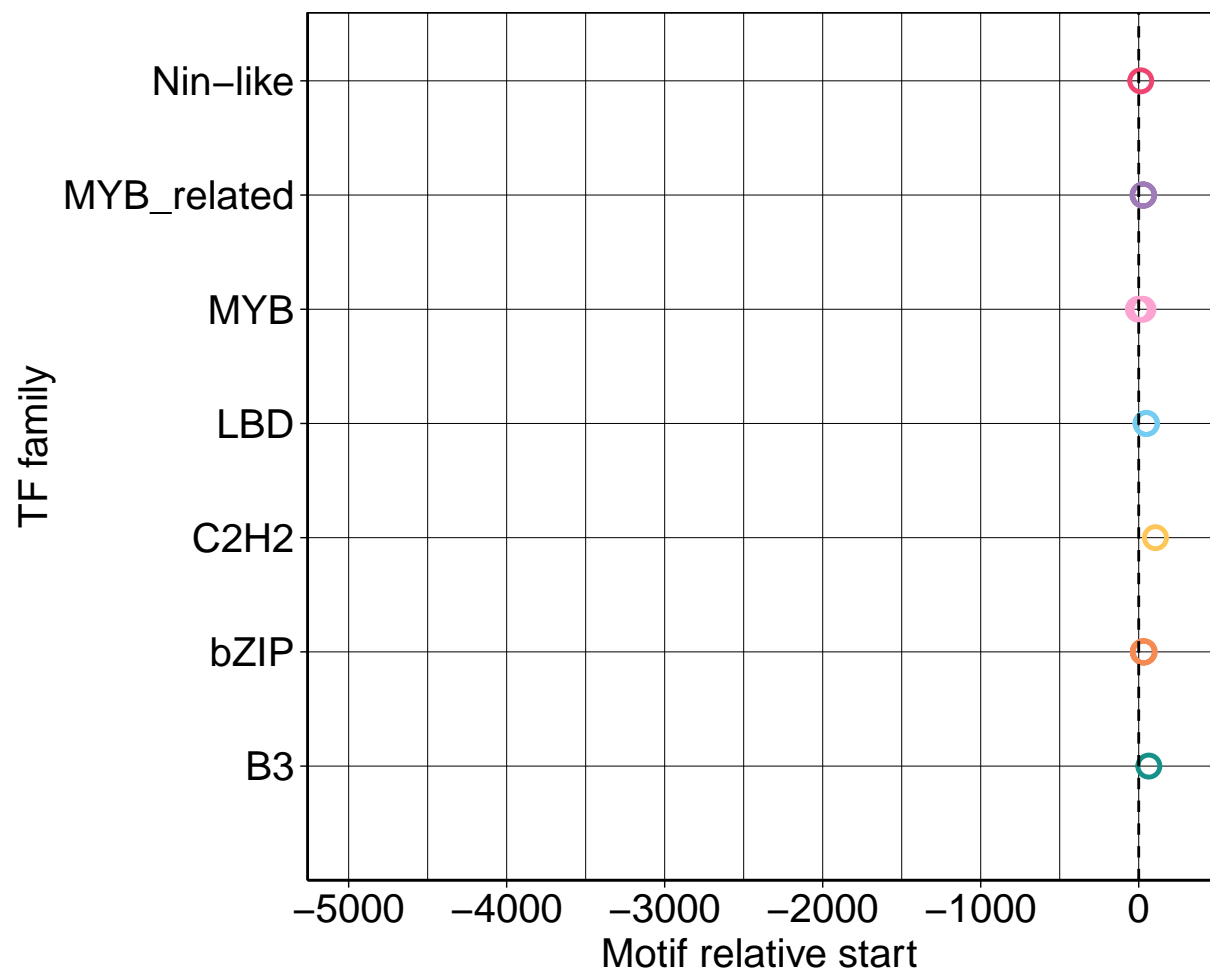
# PHAVU\_001G219900g





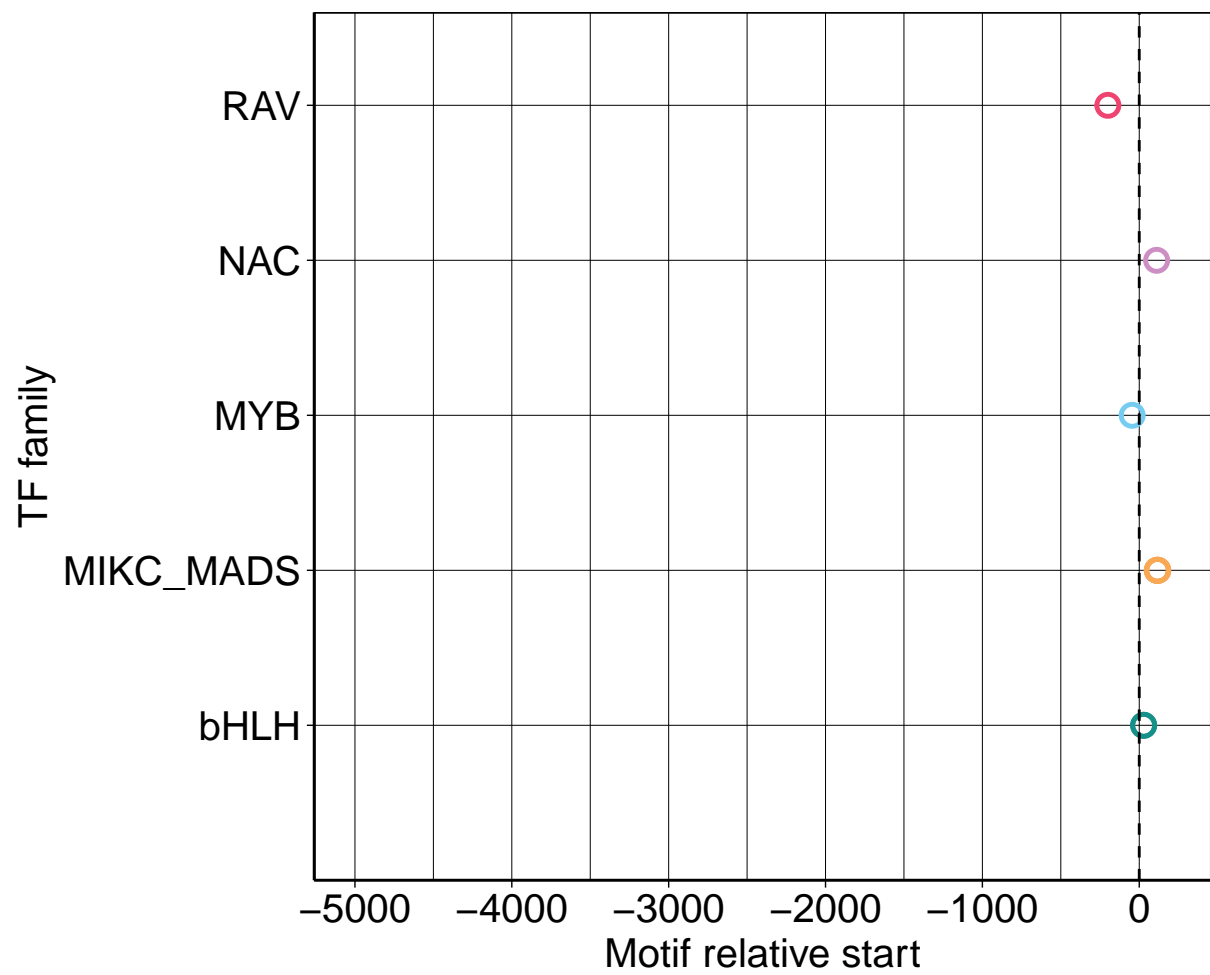
TF.family	Motifs.count	Binomial.statistics	Gene
AP2	1	5.290953e-01	PHAVU_001G219900g
ARR-B	2	1.113042e-02	PHAVU_001G219900g
B3	2	3.036939e-01	PHAVU_001G219900g
BBR-BPC	1	4.076931e-01	PHAVU_001G219900g
BES1	1	4.000189e-01	PHAVU_001G219900g
bHLH	1	9.596930e-01	PHAVU_001G219900g
bZIP	1	8.915646e-01	PHAVU_001G219900g
C2H2	1	9.617800e-01	PHAVU_001G219900g
Dof	1	8.046007e-01	PHAVU_001G219900g
EIL	3	4.103402e-04	PHAVU_001G219900g
G2-like	4	3.015825e-02	PHAVU_001G219900g
GATA	5	1.032280e-02	PHAVU_001G219900g
HD-ZIP	4	2.807111e-02	PHAVU_001G219900g
NAC	1	9.376159e-01	PHAVU_001G219900g
TCP	3	3.531752e-01	PHAVU_001G219900g
Trihelix	1	4.854440e-01	PHAVU_001G219900g
WRKY	15	3.030204e-09	PHAVU_001G219900g

# PHAVU\_003G076500g



TF.family	Motifs.count	Binomial.statistics	Gene
B3	1	0.3329581459	PHAVU_003G076500g
bZIP	5	0.0008131161	PHAVU_003G076500g
C2H2	1	0.6929483173	PHAVU_003G076500g
LBD	2	0.0480289990	PHAVU_003G076500g
MYB	2	0.5406169588	PHAVU_003G076500g
MYB_related	5	0.0002063421	PHAVU_003G076500g
Nin-like	1	0.1653221742	PHAVU_003G076500g

PHAVU\_011G044000g



TF.family	Motifs.count	Binomial.statistics	Gene
bHLH	2	1.379410e-01	PHAVU_011G044000g
MIKC_MADS	5	3.907226e-06	PHAVU_011G044000g
MYB	1	6.667198e-01	PHAVU_011G044000g
NAC	1	4.458431e-01	PHAVU_011G044000g
RAV	1	4.310314e-02	PHAVU_011G044000g