**Table S23**. Putative transcription factors and transcriptional regulators

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Family** | **Domain** | **PF#** | | **ID** |
| **TRANSCRIPTION FACTORS** | | | | |
| **AP2-EREBP (6)** | AP2 | PF00847.13 | CCMP1779\_10810-mRNA-1 | |
|  | AP2 | PF00847.13 | CCMP1779\_7582-mRNA-1 | |
|  | AP2 | PF00847.13 | CCMP1779\_11218-mRNA-1 | |
|  | AP2 | PF00847.13 | CCMP1779\_5575-mRNA-1 | |
|  | AP2 | PF00847.13 | CCMP1779\_6908-mRNA-1 | |
|  | AP2 | PF00847.13 | CCMP1779\_4174-mRNA-1 | |
| **bHLH (6)** | HLH | PF00010.19 | CCMP1779\_1117-mRNA-1 | |
|  | HLH | PF00010.19 | CCMP1779\_841-mRNA-1 | |
|  | HLH | PF00010.19 | CCMP1779\_1117-mRNA-1 | |
|  | HLH | PF00010.19 | CCMP1779\_5887-mRNA-1 | |
|  | HLH | PF00010.19 | CCMP1779\_9983-mRNA-1 | |
|  | HLH | PF00010.19 | CCMP1779\_1600-mRNA-1 | |
| **BSD (1)** | BSD | PF03909.10 | CCMP1779\_3614-mRNA-1 | |
| **bZIP (8)** | bZIP\_1 & bZIP\_2 | PF00170.14 | snap\_masked-nanno\_1035-abinit-gene-0.56-mRNA-11 | |
|  | bZIP\_1 & bZIP\_2 | PF00170.14 | CCMP1779\_10112-mRNA-1 | |
|  | bZIP\_1 & bZIP\_2 | PF00170.14 | CCMP1779\_10986-mRNA-1 | |
|  | bZIP\_1 & bZIP\_2 | PF00170.14 | CCMP1779\_6318-mRNA-1 | |
|  | bZIP\_1 & bZIP\_2 | PF00170.14 | CCMP1779\_10268-mRNA-1 | |
|  | bZIP\_1 & bZIP\_2 | PF00170.14 | CCMP1779\_10512-mRNA-1 | |
|  | bZIP\_1 & bZIP\_2 | PF00170.14 | CCMP1779\_10447-mRNA-1 | |
|  | bZIP\_2 | PF07716.8 | CCMP1779\_5385-mRNA-1 | |
| **C2H2 (1)** | zf-C2H2 | PF00096.19 | CCMP1779\_4418-mRNA-1 | |
| **C3H (4)** | zf-CCCH | PF00642.17 | CCMP1779\_9066-mRNA-1 | |
|  | zf-CCCH | PF00642.17 | CCMP1779\_3417-mRNA-1 | |
|  | zf-CCCH | PF00642.17 | CCMP1779\_11131-mRNA-1 | |
|  | zf-CCCH | PF00642.17 | CCMP1779\_2132-mRNA-1 | |
| **CCAAT (10)** | CBFB\_NFYA | PF02045.8 | CCMP1779\_4505-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_10692-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_10337-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_11634-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_3419-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_1612-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_7528-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_10337-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_5926-mRNA-1 | |
|  | CBFD\_NFYB\_HMF | PF00808.16 | CCMP1779\_197-mRNA-1 | |
| **CPP (4)** | CXC | PF03638.8 | CCMP1779\_7252-mRNA-1 | |
|  | CXC | PF03638.8 | CCMP1779\_7741-mRNA-1 | |
|  | CXC | PF03638.8 | CCMP1779\_10961-mRNA-1 | |
|  | CXC | PF03638.8 | CCMP1779\_1125-mRNA-1 | |
| **E2F-DP (3)** | E2F\_TDP | PF02319.13 | CCMP1779\_11267-mRNA-1 | |
|  | E2F\_TDP | PF02319.13 | CCMP1779\_11267-mRNA-1 | |
|  | E2F\_TDP | PF02319.13 | CCMP1779\_3316-mRNA-1 | |
| **FHA (12)** | FHA | PF00498.19 | CCMP1779\_10364-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_5309-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_5580-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_1474-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_4898-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_2684-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_4063-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_8961-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_5552-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_927-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_49-mRNA-1 | |
|  | FHA | PF00498.19 | CCMP1779\_10201-mRNA-1 | |
| **HSF (4)** | HSF\_DNA-bind | PF00447.10 | CCMP1779\_10669-mRNA-1 | |
|  | HSF\_DNA-bind | PF00447.10 | CCMP1779\_10518-mRNA-1 | |
|  | HSF\_DNA-bind | PF00447.10 | CCMP1779\_7703-mRNA-1 | |
|  | HSF\_DNA-bind | PF00447.10 | CCMP1779\_6661-mRNA-1 | |
| **LFY (1)** | FLO\_LFY | PF01698.9 | CCMP1779\_7745-mRNA-1 | |
| **mTERF (4)** | mTERF | PF02536.7 | CCMP1779\_11895-mRNA-1 | |
|  | mTERF | PF02536.7 | CCMP1779\_11964-mRNA-1 | |
|  | mTERF | PF02536.7 | CCMP1779\_8337-mRNA-1 | |
|  | mTERF | PF02536.7 | CCMP1779\_2960-mRNA-1 | |
| **MYB (17)** | Myb\_DNA-binding | PF00249.24 | CCMP1779\_5656-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_9716-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_7538-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_5043-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_10103-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_6319-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_10103-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_7733-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_6952-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_11879-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_3822-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_5907-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_3344-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_11942-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_7356-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_2770-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_6210-mRNA-1 | |
| **MYB-related (12)** | Myb\_DNA-binding | PF00249.24 | CCMP1779\_5047-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_10304-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_5384-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_2459-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_3609-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_6384-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_2331-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_11780-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_6076-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_9814-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_3496-mRNA-1 | |
|  | Myb\_DNA-binding | PF00249.24 | CCMP1779\_2129-mRNA-1 | |
| **Sigma70-like (5)** | Sigma70\_r2 & Sigma70\_r4 | PF04542.7 | CCMP1779\_5163-mRNA-1 | |
|  | Sigma70\_r2 | PF04542.7 | CCMP1779\_10506-mRNA-1 | |
|  | Sigma70\_r2 | PF04542.7 | CCMP1779\_8411-mRNA-1 | |
|  | Sigma70\_r2 & Sigma70\_r4 | PF04542.7 | CCMP1779\_5163-mRNA-1 | |
|  | Sigma70\_r2 | PF04542.7 | CCMP1779\_8114-mRNA-1 | |
|  | Sigma70\_r2 & Sigma70\_r3 | PF04542.7 | CCMP1779\_1521-mRNA-1 | |
| **TAZ (2)** | zf-TAZ | PF02135.9 | CCMP1779\_6432-mRNA-1 | |
|  | zf-TAZ | PF02135.9 | CCMP1779\_298-mRNA-2 | |
| **TIG (2)** | TIG | PF01833.17 | CCMP1779\_11906-mRNA-1 | |
|  | TIG | PF01833.17 | CCMP1779\_11619-mRNA-1 | |
| **Tub (3)** | Tub | PF01167.11 | CCMP1779\_4350-mRNA-1 | |
|  | Tub | PF01167.11 | CCMP1779\_279-mRNA-1 | |
|  | Tub | PF01167.11 | CCMP1779\_279-mRNA-1 | |
| **Zn-clus (9)** | Zn\_clus | PF00172.11 | CCMP1779\_4311-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_2380-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_10368-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_4023-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_747-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_8711-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_8712-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_7006-mRNA-1 | |
|  | Zn\_clus | PF00172.11 | CCMP1779\_10456-mRNA-1 | |
| **TRANSCRIPTIONAL REGULATORS** | | | | |
| **GNAT (21)** | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_9273-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_6048-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_5286-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_9314-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_2709-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_1641-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_10759-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_1663-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_5094-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_11751-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_2433-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_7749-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_319-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_11616-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_3987-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_9314-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_3433-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_3337-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_5587-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_10255-mRNA-1 |
|  | Acetyltransf\_1 | PF00583.17 | | CCMP1779\_8927-mRNA-1 |
| **HMG (9)** | HMG\_box | PF00505.12 | | CCMP1779\_4336-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_10709-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_9684-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_10709-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_7887-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_10477-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_8679-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_6026-mRNA-1 |
|  | HMG\_box | PF00505.12 | | CCMP1779\_1523-mRNA-1 |
| **IWS1 (5)** | Med26 | PF08711.4 | | CCMP1779\_6574-mRNA-1 |
|  | Med26 | PF08711.4 | | CCMP1779\_10080-mRNA-1 |
|  | Med26 | PF08711.4 | | CCMP1779\_5876-mRNA-1 |
|  | Med26 | PF08711.4 | | CCMP1779\_7879-mRNA-1 |
|  | Med26 | PF08711.4 | | CCMP1779\_936-mRNA-1 |
| **Jumonji (7)** | JmjC | PF02373.15 | | CCMP1779\_2861-mRNA-1 |
|  | JmjC | PF02373.15 | | CCMP1779\_6636-mRNA-1 |
|  | JmjC & JmjN | PF02373.15 | | CCMP1779\_1872-mRNA-1 |
|  | JmjC | PF02373.15 | | CCMP1779\_2998-mRNA-1 |
|  | JmjC | PF02373.15 | | CCMP1779\_3078-mRNA-1 |
|  | JmjC & JmjN | PF02373.15 | | CCMP1779\_8742-mRNA-1 |
|  | JmjN | PF02375.10 | | CCMP1779\_3082-mRNA-1 |
| **MED6 (1)** | Med6 | PF04934.7 | | CCMP1779\_859-mRNA-1 |
| **PHD (14)** | PHD | PF00628.22 | | CCMP1779\_7595-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_6575-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_5003-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_4733-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_10758-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_5699-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_3127-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_10304-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_444-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_621-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_1367-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_239-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_34-mRNA-1 |
|  | PHD | PF00628.22 | | CCMP1779\_4655-mRNA-1 |
| **Rcd1-like (1)** | Rcd1 | PF04078.6 | | CCMP1779\_6941-mRNA-1 |
| **SET (15)** | SET | PF00856.21 | | CCMP1779\_9932-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_4870-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_10404-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_9619-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_9932-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_10920-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_7213-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_7423-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_10920-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_620-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_7328-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_3578-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_8516-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_2174-mRNA-1 |
|  | SET | PF00856.21 | | CCMP1779\_4387-mRNA-1 |
| **SNF2 (27)** | SNF2\_N | PF00176.16 | | CCMP1779\_5791-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_5046-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_386-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_7577-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_7826-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_4163-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_558-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_5892-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_8560-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_10795-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | augustus\_masked-nanno\_727-abinit-gene-0.12-mRNA-1 1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_2033-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_4550-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_3081-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_5237-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_9684-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_4234-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_7254-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_9976-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_9187-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_11503-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_1832-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_2443-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_9187-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_9187-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_4210-mRNA-1 |
|  | SNF2\_N | PF00176.16 | | CCMP1779\_241-mRNA-1 |
| **SOH1 (2)** | Med31 | PF05669.5 | | CCMP1779\_2467-mRNA-1 |
|  | Med31 | PF05669.5 | | CCMP1779\_2467-mRNA-1 |
| **SWI/SNF-BAF60b (2)** | SWIB | PF02201.11 | | CCMP1779\_5044-mRNA-1 |
|  | SWIB | PF02201.11 | | CCMP1779\_10286-mRNA-1 |
| **SWI/SNF-SWI3 (1)** | SWIRM | PF04433.10 | | CCMP1779\_9651-mRNA-1 |
| **TRAF (4)** | BTB | PF00651.24 | | CCMP1779\_6768-mRNA-1 |
|  | BTB | PF00651.24 | | CCMP1779\_7977-mRNA-1 |
|  | BTB | PF00651.24 | | CCMP1779\_1712-mRNA-1 |
|  | BTB | PF00651.24 | | CCMP1779\_9947-mRNA-1 |

1 this gene model is from augustus or snap gene annotation and was found superior to the final maker annotation after manual examination