**Table S1:** The information of the identified *CmoMYB* genes.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene name** | **Gene ID** | **MYB****domain** | **PI** | **MW (kDa)** | **Chromosome Location** | **CDS****Length (bp)** | **Number of****Amino Acids (aa)** | **GRAVY** | **Subcellular Localization** |
| *CmoMYB1**CmoMYB2**CmoMYB3**CmoMYB4**CmoMYB5**CmoMYB6**CmoMYB7**CmoMYB8**CmoMYB9**CmoMYB10**CmoMYB11**CmoMYB12**CmoMYB13**CmoMYB14**CmoMYB15**CmoMYB16**CmoMYB17**CmoMYB18**CmoMYB19**CmoMYB20**CmoMYB21**CmoMYB22**CmoMYB23**CmoMYB24**CmoMYB25**CmoMYB26**CmoMYB27**CmoMYB28**CmoMYB29**CmoMYB30**CmoMYB31**CmoMYB32**CmoMYB33**CmoMYB34**CmoMYB35**CmoMYB36**CmoMYB37**CmoMYB38**CmoMYB39**CmoMYB40**CmoMYB41**CmoMYB42**CmoMYB43**CmoMYB44**CmoMYB45**CmoMYB46**CmoMYB47**CmoMYB48**CmoMYB49**CmoMYB50**CmoMYB51**CmoMYB52**CmoMYB53**CmoMYB54**CmoMYB55**CmoMYB56**CmoMYB57**CmoMYB58**CmoMYB59**CmoMYB60**CmoMYB61**CmoMYB62**CmoMYB63**CmoMYB64**CmoMYB65**CmoMYB66**CmoMYB67**CmoMYB68**CmoMYB69**CmoMYB70**CmoMYB71**CmoMYB72**CmoMYB73**CmoMYB74**CmoMYB75**CmoMYB76**CmoMYB77**CmoMYB78**CmoMYB79**CmoMYB80**CmoMYB81**CmoMYB82**CmoMYB83**CmoMYB84**CmoMYB85**CmoMYB86**CmoMYB87**CmoMYB88**CmoMYB89**CmoMYB90**CmoMYB91**CmoMYB92**CmoMYB93**CmoMYB94**CmoMYB95**CmoMYB96**CmoMYB97**CmoMYB98**CmoMYB99**CmoMYB100**CmoMYB101**CmoMYB102**CmoMYB103**CmoMYB104**CmoMYB105**CmoMYB106**CmoMYB107**CmoMYB108**CmoMYB109**CmoMYB110**CmoMYB111**CmoMYB112**CmoMYB113**CmoMYB114**CmoMYB115**CmoMYB116**CmoMYB117**CmoMYB118**CmoMYB119**CmoMYB120**CmoMYB121**CmoMYB122**CmoMYB123**CmoMYB124**CmoMYB125**CmoMYB126**CmoMYB127**CmoMYB128**CmoMYB129**CmoMYB130**CmoMYB131**CmoMYB132**CmoMYB133**CmoMYB134**CmoMYB135**CmoMYB136**CmoMYB137**CmoMYB138**CmoMYB139**CmoMYB140**CmoMYB141**CmoMYB142**CmoMYB143**CmoMYB144**CmoMYB145**CmoMYB146**CmoMYB147**CmoMYB148**CmoMYB149**CmoMYB150**CmoMYB151**CmoMYB152**CmoMYB153**CmoMYB154**CmoMYB155**CmoMYB156**CmoMYB157**CmoMYB158**CmoMYB159**CmoMYB160**CmoMYB161**CmoMYB162**CmoMYB163**CmoMYB164**CmoMYB165**CmoMYB166**CmoMYB167**CmoMYB168**CmoMYB169**CmoMYB170**CmoMYB171**CmoMYB172**CmoMYB173**CmoMYB174**CmoMYB175* | CmoCh20G007520.1CmoCh02G002520.1CmoCh11G017310.1CmoCh09G013230.1CmoCh01G008740.1CmoCh20G010400.1CmoCh19G007410.1CmoCh03G005180.1CmoCh07G002730.1CmoCh19G009880.1CmoCh13G007030.1CmoCh18G003180.1CmoCh15G002700.1CmoCh04G029050.1CmoCh03G008480.1CmoCh14G020890.1CmoCh06G011140.1CmoCh05G010620.1CmoCh10G012670.1CmoCh19G002380.1CmoCh15G012170.1CmoCh11G000750.1CmoCh02G016690.1CmoCh12G008720.1CmoCh18G001470.1CmoCh15G013710.1CmoCh14G008430.1CmoCh14G005780.1CmoCh01G003920.1CmoCh14G009510.1CmoCh14G006260.1CmoCh20G009160.1CmoCh15G014530.1CmoCh02G015660.1CmoCh15G007700.1CmoCh14G016310.1CmoCh14G007130.1CmoCh06G015520.1CmoCh11G012520.1CmoCh01G003060.1CmoCh10G001040.1CmoCh02G000100.1CmoCh14G012830.1CmoCh20G003020.1CmoCh08G010590.1CmoCh06G007010.1CmoCh19G001010.1CmoCh13G008960.1CmoCh17G001630.1CmoCh06G013300.1CmoCh14G004790.1CmoCh03G002010.1CmoCh12G010150.1CmoCh04G028930.1CmoCh10G001800.1CmoCh07G000100.1CmoCh06G000480.1CmoCh14G018510.1CmoCh08G002890.1CmoCh14G006020.1CmoCh01G005450.1CmoCh13G011860.1CmoCh04G023920.1CmoCh03G009230.1CmoCh02G001360.1CmoCh01G000450.1CmoCh09G003180.1CmoCh01G008230.1CmoCh07G006280.1CmoCh01G002350.1CmoCh02G014200.1CmoCh11G010480.1CmoCh14G010210.1CmoCh02G012850.1CmoCh19G009840.1CmoCh11G001610.1CmoCh02G014610.1CmoCh14G012670.1CmoCh17G009280.1CmoCh20G000840.1CmoCh05G001200.1CmoCh01G018180.1CmoCh12G005570.1CmoCh15G003560.1CmoCh04G029420.1CmoCh11G004090.1CmoCh14G006720.1CmoCh12G012230.1CmoCh04G026110.1CmoCh05G012980.1CmoCh11G018940.1CmoCh02G010780.1CmoCh06G003880.1CmoCh19G009420.1CmoCh04G028290.1CmoCh15G007040.1CmoCh11G016850.1CmoCh05G008320.1CmoCh04G010390.1CmoCh11G006820.1CmoCh11G019240.1CmoCh13G002400.1CmoCh17G003460.1CmoCh11G019280.1CmoCh08G012310.1CmoCh17G009910.1CmoCh06G015690.1CmoCh01G005960.1CmoCh13G010630.1CmoCh06G003950.1CmoCh08G004800.1CmoCh11G002830.1CmoCh14G018970.1CmoCh01G005970.1CmoCh15G005500.1CmoCh01G002810.1CmoCh10G004430.1CmoCh02G017900.1CmoCh14G016090.1CmoCh16G010140.1CmoCh13G001580.1CmoCh04G003730.1CmoCh16G002280.1CmoCh17G005000.1CmoCh08G010240.1CmoCh01G018660.1CmoCh04G001420.1CmoCh20G009820.1CmoCh05G001630.1CmoCh02G008330.1CmoCh12G005160.1CmoCh16G003650.1CmoCh11G000920.1CmoCh15G003580.1CmoCh02G005070.1CmoCh04G028270.1CmoCh07G010800.1CmoCh14G001400.1CmoCh07G006920.1CmoCh04G005040.1CmoCh03G003930.1CmoCh06G002970.1CmoCh12G004570.1CmoCh01G019250.1CmoCh01G016480.1CmoCh05G006280.1CmoCh12G002160.1CmoCh09G002010.1CmoCh13G012040.1CmoCh09G005440.1CmoCh10G001270.1CmoCh13G000650.1CmoCh01G005140.1CmoCh06G000610.1CmoCh18G011620.1CmoCh04G017460.1CmoCh14G004630.1CmoCh04G025320.1CmoCh20G005930.1CmoCh14G008130.1CmoCh09G010810.1CmoCh14G009690.1CmoCh01G007870.1CmoCh20G004650.1CmoCh01G004180.1CmoCh20G010680.1CmoCh02G006370.1CmoCh04G017190.1CmoCh18G011890.1CmoCh15G006410.1CmoCh15G011000.1CmoCh02G011270.1CmoCh10G003440.1CmoCh11G009940.1CmoCh10G010750.1 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8.288.599.038.678.799.158.945.825.675.346.46.265.986.726.055.745.28.956.866.676.016.677.068.416.795.676.319.65.724.618.626.096.526.086.46.958.416.356.28.176.285.17.054.928.635.766.986.076.039.015.697.598.338.076.026.316.928.996.265.757.198.055.969.856.327.78.048.666.65.228.76.015.466.086.169.226.087.155.598.438.528.329.095.36.156.426.37.055.76.328.738.288.966.755.675.49.165.886.665.598.98.939.339.5910.045.95.198.588.768.975.66.68.696.545.667.136.766.196.126.516.086.565.35.449.358.186.679.446.229.28.995.939.055.326.495.148.58.75.635.369.1310.269.275.75.375.139.219.545.36.765.6310.619.468.856.759.889.075.189.3110.245.5611.0410.519.4910.3510.117.247.619.879.396.916.056.395.12 | 28.6986427.269127.6115130.7935631.3041224.7419624.8982539.1535341.9665237.6001734.8713234.5189438.1253554.9032438.7207733.7738135.5466526.6811841.5133534.6868926.322638.7460932.1194829.7507436.7964528.3326127.6221428.9814728.3039235.2599331.0230734.4416426.449730.5760530.9369530.6626530.0231830.5971246.1915796.9376441.2539536.8848738.3165138.0542328.3226941.451527.4090941.8689629.083534.4169630.8576232.9157827.0486532.2814144.0316236.7492931.741830.3453530.3915734.3052730.6652790.2767236.3963522.5659327.6809522.6304732.7599131.1089135.7071735.54326.4520135.0479336.5339632.5774228.9745228.3719736.7780750.177735.7250641.6999337.9096265.2884736.0865424.3181823.6087436.5339123.3893727.7169761.0256229.5709844.0868225.608638.0354746.9958624.2571429.8652323.7509724.233355.3736430.1678230.6090634.3917211.0225710.1226211.0818629.9738233.3688689.7414854.750827.6571529.4259332.0795531.9781425.09232102.5628929.1307840.4536873.758632.5411234.5691227.6673135.8795435.8910734.6058911.2719631.7687230.6752831.4065776.6680651.6755529.1418325.992451.7145549.3986532.0267549.2913140.5472160.484333.2031519.2113940.9456161.4538328.39324.63737105.35635105.17986111.8286625.3581126.96823113.8050328.6871147.9196619.3219233.52849100.6907636.1174429.3093133.362353.9903842.9769527.5561320.5998815.7471112.4956443.8763224.8169924.8419572.3888851.3002936.460769.833289.80311112.917284.93156114.86167 | Chr20: 3778404...3779972(+)Chr02: 1190454...1200490(-)Chr16: 1397496...12247767(+)Chr34: 3985446...11980609(-)Chr52: 6573396...4719053(+)Chr70: 9161346...9498130(-)Chr88: 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(-)Chr1312:187729896...8835258(+)Chr1330:190317846...809565(-)Chr1348:192905796...8595392(+)Chr1366:195493746...10631344(-)Chr1384:198081696...8273525(+)Chr1402:200669646...438929(-)Chr1420:203257596...514184(+)Chr1438:205845546...13337723(-)Chr1456:208433496...3431048(+)Chr1474:211021446...1670819(-)Chr1492:213609396...20840133(+)Chr1510:216197346...2017012(-)Chr1528:218785296...3419449(+)Chr1546:221373246...10916265(-)Chr1564:223961196...19045480(+)Chr1582:226549146...10079521(-)Chr1600:229137096...13163957(+)Chr1618:231725046...6570042(-)Chr1636:234312996...1896786(+)Chr1654:236900946...8654672(-)Chr1672:239488896...20252139(+)Chr1690:242076846...3426846(-)Chr1708:244664796...11948048(+)Chr1726:247252746...5074123(-)Chr1744:249840696...5184444(+)Chr1762:252428646...3275052(-)Chr1780:255016596...13343765(+)Chr1798:257604546...1941426(-)Chr1816:260192496...2091372(+)Chr1834:262780446...13358412(-)Chr1852:265368396...7798610(+)Chr1870:267956346...8565909(-)Chr1888:270544296...11060541(+)Chr1906:273132246...3028819(-)Chr1924:275720196...8837139(+)Chr1942:278308146...1929379(-)Chr1960:280896096...2966721(+)Chr1978:283484046...1375700(-)Chr1996:286071996...14164946(+)Chr2014:288659946...3025159(-)Chr2032:291247896...2638282(+)Chr2050:293835846...1332856(-)Chr2068:296423796...2007834(+)Chr2086:299011746...10188627(-)Chr2104:301599696...12784062(+)Chr2122:304187646...6996329(-)Chr2140:306775596...1010945(+)Chr2158:309363546...1818597(-)Chr2176:311951496...1007875(+)Chr2194:314539446...4222097(-)Chr2212:317127396...6673985(+)Chr2230:319715346...13542671(-)Chr2248:322303296...735966(+)Chr2266:324891246...5511833(-)Chr2284:327479196...702772(+)Chr2302:330067146...5071099(-)Chr2320:332655096...3171734(+)Chr2338:335243046...1672821(-)Chr2356:337830996...452379(+)Chr2374:340418946...1684817(-)Chr2392:343006896...2786572(+)Chr2410:345594846...20244220(-)Chr2428:348182796...5613336(+)Chr2446:350770746...620533(-)Chr2464:353358696...3129232(+)Chr2482:355946646...2512575(-)Chr2500:358534596...4798757(+)Chr2518:361122546...1484673(-)Chr2536:363710496...2799560(+)Chr2554:366298446...13777073(-)Chr2572:368886396...12501271(+)Chr2590:371474346...3166061(-)Chr2608:374062296...1428370(+)Chr2626:376650246...917645(-)Chr2644:379238196...9461901(+)Chr2662:381826146...2596047(-)Chr2680:384414096...582704(+)Chr2698:387002046...402901(-)Chr2716:389589996...2471014(+)Chr2734:392177946...388065(-)Chr2752:394765896...11814214(+)Chr2770:397353846...8819112(-)Chr2788:399941796...2234627(+)Chr2806:402529746...18606095(-)Chr2824:405117696...2928897(+)Chr2842:407705646...4194953(-)Chr2860:410293596...5878844(+)Chr2878:412881546...5172834(-)Chr2896:415469496...4136971(+)Chr2914:418057446...2156170(-)Chr2932:420645396...2048710(+)Chr2950:423233346...9896484(-)Chr2968:425821296...3967135(+)Chr2986:428409246...8713018(-)Chr3004:430997196...11947227(+)Chr3022:433585146...3116263(-)Chr3040:436173096...7382314(+)Chr3058:438761046...6840854(-)Chr3076:441348996...1561143(+)Chr3094:443936946...5327518(-)Chr3112:446524896...5808034(+) 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