

Table SIII. Gene Ontology enrichment analysis results of the turquoise module.

ID	Description	Gene Ratio	Bg Ratio	P-value	p.adjust	q-value	geneID	Count
GO:0019838	growth factor binding	22/816	137/17632	3.22x10 <sup>-7</sup>	0.0003	0.0002	94/7010/9365/948/8425/7049/2615/83888/2690/8692/8839/3977/3791/5155/51232/1843/347252/3491/2263/9180/1490/3655	22
GO:0050839	cell adhesion molecule binding	42/816	486/17632	7.78x10 <sup>-5</sup>	0.0207	0.0189	1003/29091/2013/5797/3384/1001/7450/8425/10606/28969/79026/56924/2023/3898/8727/9748/9414/8839/9124/3791/7082/255743/9052/1012/83700/56061/3417/93663/2810/6376/6709/3491/4430/5214/3913/1490/5756/57488/25975/3655/1004/83872	42
GO:0019199	transmembrane receptor protein kinase activity	13/816	81/17632	8.25x10 <sup>-5</sup>	0.0207	0.0189	1945/94/7010/8425/25928/7049/3791/51232/4919/4486/2263/2049/3815	13
GO:0001540	amyloid-beta binding	11/816	61/17632	9.78x10 <sup>-5</sup>	0.0207	0.0189	177/2890/9452/154/948/1410/8322/8685/3949/25825/590	11
GO:0003705	RNA polymerase II distal enhancer binding	15/816	108/17632	0.0001	0.0224	0.0205	2294/64321/83595/389136/9839/51804/4211/3202/6495/3159/2627/10736/2295/60468/4223	15
GO:0061134	peptidase regulator activity	23/816	220/17632	0.0002	0.0248	0.0226	9806/857/80760/6622/1469/4118/2719/1470/7078/26577/114769/1472/710/2621/5627/27344/51232/10653/871/7076/2192/22900/58189	23
GO:0043178	alcohol binding	12/816	79/17632	0.0003	0.0248	0.0226	150696/857/1382/5334/7225/3708/134429/1071/5950/23228/116362/26031	12
GO:0004857	enzyme inhibitor activity	33/816	371/17632	0.0003	0.0248	0.0226	9806/80760/6622/1469/26472/11142/9353/9467/94274/2719/8692/9535/1470/7078/51657/114769/1472/710/2621/1028/55450/5627/8850/27344/306/51232/10653/871/7076/2810/3315/58189/5577	33
GO:0005539	glycosaminoglycan binding	23/816	222/17632	0.0003	0.0248	0.0226	9806/10894/9037/8425/7049/6403/9353/8692/3026/6368/50512/4023/8839/26577/5549/4316/340419/84870/3491/2263/6649/1490/89797	23
GO:0098631	cell adhesion mediator activity	10/816	59/17632	0.0003	0.0288	0.0264	54538/29091/27255/23114/9124/3672/133418/128434/152330/91624	10
GO:0050431	transforming growth factor beta binding	6/816	22/17632	0.0004	0.0290	0.0265	94/948/8425/7049/2615/8692	6
GO:0098632	cell-cell adhesion mediator activity	9/816	50/17632	0.0004	0.0290	0.0265	54538/29091/27255/23114/9124/133418/128434/152330/91624	9
GO:0070412	R-SMAD binding	6/816	23/17632	0.0005	0.0290	0.0265	28984/4091/9839/27063/2353/93649	6
GO:0001228	DNA-binding transcription activator activity, RNA polymerase II-specific	37/816	449/17632	0.0005	0.0290	0.0265	2034/2078/6943/2294/64321/2118/148327/4005/84969/9314/2313/9839/51804/4211/23462/79977/3202/6495/1879/55897/4781/3726/1958/9592/3159/5325/4212/10736/2353/7022/3169/2295/346389/54345/93649/4692/4223	37
GO:0004860	protein kinase inhibitor activity	10/816	62/17632	0.0005	0.0290	0.0265	11142/9467/8692/9535/1028/55450/8850/2810/3315/5577	10
GO:0042277	peptide binding	26/816	285/17632	0.0008	0.0402	0.0368	177/4311/1910/2890/11015/9452/154/948/1410/10266/8322/29953/3133/2690/8685/7433/5480/3949/25825/590/909/5468/5295/4883/10267/79711	26

GO:0005201	extracellular matrix structural constituent	17/816	155/17632	0.0008	0.0402	0.0368	79812/7450/8425/131873/4239/255743/64856/22915/4969/5549/2192/256076/10216/3913/3908/4256/83872	17
GO:0019210	kinase inhibitor activity	10/816	66/17632	0.0009	0.0402	0.0368	11142/9467/8692/9535/1028/55450/8850/2810/3315/5577	10
GO:0000982	transcription factor activity, RNA polymerase II proximal promoter sequence-specific DNA binding	36/816	447/17632	0.0009	0.0408	0.0373	2034/2078/6943/2118/84969/9314/2023/6926/6909/2313/51804/4211/23462/138151/3202/6495/1879/55897/4781/5468/3726/1958/2308/4212/10736/2353/7022/3169/54345/7025/53335/7764/93649/4692/84619/4223	36
GO:0005518	collagen binding	10/816	67/17632	0.0010	0.0408	0.0373	9806/147372/7450/4321/26577/3672/8404/5155/871/4092	10
GO:0045296	cadherin binding	28/816	323/17632	0.0011	0.0446	0.0408	1003/29091/5797/1001/10606/28969/79026/56924/2023/3898/8727/9748/9414/9124/7082/9052/1012/56061/3417/93663/2810/6709/4430/5214/5756/57488/3655/1004	28
GO:0003779	actin binding	34/816	421/17632	0.0012	0.0460	0.0421	7134/11170/63876/10391/10529/6622/7111/6532/22885/1073/85358/3983/57477/6275/8727/9535/55612/130271/10810/7225/634/51361/4628/23136/171024/11346/6709/1264/91624/92241/25802/4430/5756/6876	34

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