**Table S8.** List of genes related to starch biosynthesis in common buckwheat.

|  |  |  |
| --- | --- | --- |
| **Gene** | **Gene ID** | **Arabidopsis homologous** |
| SUS | Fes\_sc0000045.1.g000030.aua.1 | AT3G43190.1 |
|  | Fes\_sc0000621.1.g000004.aua.1 | AT1G73370.1 |
|  | Fes\_sc0001405.1.g000001.aua.1 | AT5G20830.2 |
|  | Fes\_sc0002952.1.g000003.aua.1 | AT3G43190.1 |
|  | Fes\_sc0003515.1.g000010.aua.1 | AT5G37180.1 |
|  | Fes\_sc0006080.1.g000001.aua.1 | AT4G02280.1 |
|  | Fes\_sc0006117.1.g000007.aua.1 | AT1G73370.1 |
|  | Fes\_sc0007558.1.g000005.aua.1 | AT4G02280.1 |
|  | Fes\_sc0023486.1.g000001.aua.1 | AT4G02280.1 |
|  | Fes\_sc0028227.1.g000001.aua.1 | AT1G73370.1 |
|  | Fes\_sc0030170.1.g000001.aua.1 | AT3G43190.1 | |
|  | Fes\_sc0052588.1.g000001.aua.1 | AT5G49190.1 |
|  | Fes\_sc0053143.1.g000001.aua.1 | AT4G02280.1 |
|  | Fes\_sc0058621.1.g000001.aua.1 | AT5G20830.2 |
|  | Fes\_sc0086881.1.g000001.aua.1 | AT4G02280.1 |
|  | Fes\_sc0115341.1.g000001.aua.1 | AT5G37180.1 |
|  | Fes\_sc0140861.1.g000001.aua.1 | AT1G73370.1 |
|  | Fes\_sc0142039.1.g000001.aua.1 | AT4G02280.1 |
|  | Fes\_sc0142668.1.g000001.aua.1 | AT1G73370.1 |
|  | Fes\_sc0247613.1.g000001.aua.1 | AT3G43190.1 |
|  | Fes\_sc0248879.1.g000001.aua.1 | AT3G43190.1 |
|  | Fes\_sc0293886.1.g000001.aua.1 | AT3G43190.1 |
|  | Fes\_sc0327288.1.g000001.aua.1 | AT5G37180.1 |
|  | Fes\_sc0333276.1.g000001.aua.1 | AT1G73370.1 |
|  | Fes\_sc0388210.1.g000001.aua.1 | AT5G49190.1 |
| UGPase | Fes\_sc0002411.1.g000014.aua.1 | AT5G17310.2 |
|  | Fes\_sc0003773.1.g000005.aua.1 | AT3G56040.1 |
|  | Fes\_sc0005131.1.g000007.aua.1 | AT5G17310.2 |
| AGPase | Fes\_sc0000048.1.g000020.aua.1 | AT1G27680.1 |
|  | Fes\_sc0000081.1.g000017.aua.1 | AT5G48300.1 |
|  | Fes\_sc0000388.1.g000020.aua.1 | AT1G74910.2 |
|  | Fes\_sc0006664.1.g000002.aua.1 | AT1G05610.1 |
|  | Fes\_sc0012290.1.g000004.aua.1 | AT5G19220.1 |
|  | Fes\_sc0015426.1.g000003.aua.1 | AT1G74910.2 |
|  | Fes\_sc0034411.1.g000001.aua.1 | AT5G48300.1 |
|  | Fes\_sc0045323.1.g000001.aua.1 | AT5G48300.1 |
|  | Fes\_sc0051732.1.g000001.aua.1 | AT1G74910.2 |
|  | Fes\_sc0073054.1.g000001.aua.1 | AT5G19220.1 |
|  | Fes\_sc0131145.1.g000001.aua.1 | AT1G74910.2 |
|  | Fes\_sc0167260.1.g000001.aua.1 | AT1G74910.2 |
|  | Fes\_sc0232932.1.g000001.aua.1 | AT5G48300.1 |
|  | Fes\_sc0233354.1.g000001.aua.1 | AT5G48300.1 |
| GBSS | Fes\_sc0004292.1.g000004.aua.1 | AT1G32900.1 |
|  | Fes\_sc0073997.1.g000001.aua.1 | AT1G32900.1 |
|  | Fes\_sc0078760.1.g000001.aua.1 | AT1G32900.1 |
|  | Fes\_sc0098294.1.g000001.aua.1 | AT1G32900.1 |
|  | Fes\_sc0098658.1.g000001.aua.1 | AT1G32900.1 |
|  | Fes\_sc0133745.1.g000001.aua.1 | AT1G32900.1 |
|  | Fes\_sc0271790.1.g000001.aua.1 | AT1G32900.1 |
|  | Fes\_sc0386817.1.g000001.aua.1 | AT1G32900.1 |
| SS | Fes\_sc0000004.1.g000005.auf.1 | AT1G11720.1 |
|  | Fes\_sc0000009.1.g000056.aua.1 | AT3G01180.1 |
|  | Fes\_sc0000323.1.g000009.aua.1 | AT4G18240.1 |
|  | Fes\_sc0002320.1.g000001.aua.1 | AT3G01180.1 |
|  | Fes\_sc0006379.1.g000006.aua.1 | AT4G18240.1 |
|  | Fes\_sc0002932.1.g000007.aua.1 | AT1G11720.2 |
|  | Fes\_sc0003053.1.g000007.aua.1 | AT4G18240.1 |
|  | Fes\_sc0007201.1.g000005.aua.1 | AT4G18240.1 |
|  | Fes\_sc0009001.1.g000003.aua.1 | AT3G01180.1 |
|  | Fes\_sc0010153.1.g000004.aua.1 | AT3G01180.1 |
|  | Fes\_sc0014975.1.g000001.aua.1 | AT4G18240.1 |
|  | Fes\_sc0016687.1.g000004.aua.1 | AT3G01180.1 |
|  | Fes\_sc0022979.1.g000002.aua.1 | AT1G11720.2 |
|  | Fes\_sc0023853.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0043189.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0047546.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0057099.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0069832.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0076921.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0080173.1.g000001.aua.1 | AT4G18240.1 |
|  | Fes\_sc0088523.1.g000001.aua.1 | AT3G01180.1 |
|  | Fes\_sc0094105.1.g000001.aua.1 | AT4G18240.1 |
|  | Fes\_sc0099955.1.g000001.aua.1 | AT1G11720.2 |
|  | Fes\_sc0127949.1.g000001.aua.1 | AT4G18240.1 |
| SBE | Fes\_sc0000127.1.g000022.aua.1 | AT5G03650.1 |
|  | Fes\_sc0001814.1.g000004.ana.1 | AT5G03650.1 |
|  | Fes\_sc0003492.1.g000005.aua.1 | AT5G03650.1 |
|  | Fes\_sc0007590.1.g000001.aua.1 | AT5G03650.1 |
| DBE | Fes\_sc0000287.1.g000005.aua.1 | AT4G31770.1 |
|  | Fes\_sc0000335.1.g000007.aua.1 | AT1G03310.1 |
|  | Fes\_sc0001905.1.g000005.aua.1 | AT1G03310.1 |