

**Supplemental Data:** Log-fold change in expression levels of target genes found in the results of the exact test to determine

differential expression for each tissue type, root and leaf, and all three species; *Mentzelia filifolia*, *M. reverchonii*, and *M. speciosa*.

Values for log-fold changes (LogFC) show the direction and extent of the change of expression for each target gene. Values of LogFC with \* indicate values with corresponding significant *p*-values <0.05.

| Target Gene | <i>M.</i><br><i>filifolia</i><br>leaf | LogFC | <i>M.</i><br><i>filifolia</i><br>root | LogFC | <i>M.</i><br><i>reverchonii</i><br>leaf | LogFC  | <i>M.</i><br><i>reverchonii</i><br>root | LogFC | <i>M.</i><br><i>speciosa</i><br>leaf | LogFC | <i>M.</i><br><i>speciosa</i><br>root | LogFC  |
|-------------|---------------------------------------|-------|---------------------------------------|-------|-----------------------------------------|--------|-----------------------------------------|-------|--------------------------------------|-------|--------------------------------------|--------|
| 14333_ORYSJ | NF                                    | —     | NF                                    | —     | NF                                      | —      | NF                                      | —     | NF                                   | —     | NF                                   | —      |
| PSD8A_ARATH | 22463.0                               | —     | 66259.0                               | —     | 12249.0                                 | —      | 47360.0                                 | —     | 18856.0                              | —     | 64380.0                              | 1.36   |
| —           | 8305.0                                | —     | —                                     | —     | 51036.0                                 | -1.24  | 51649.0                                 | 0.62  | 31880.0                              | 0.32  | 66290.0                              | —      |
| —           | 27506.0                               | —     | —                                     | —     | 66230.0                                 | —      | 49806.0                                 | —     | 8982.0                               | —     | 74369.0                              | —      |
| —           | —                                     | —     | —                                     | —     | 26428.0                                 | -0.02  | 18766.0                                 | —     | 23097.0                              | -0.04 | 73950.0                              | 0.38   |
| —           | —                                     | —     | —                                     | —     | 28677.0                                 | *-1.40 | 44515.0                                 | —     | 38364.0                              | 0.56  | 75718.0                              | -0.08  |
| KCS12_ARATH | 59862.0                               | —     | NF                                    | —     | 35325.0                                 | -0.25  | 31896.0                                 | —     | 30958.0                              | -0.39 | NF                                   | —      |
| NCED3_ARATH | 37429.0                               | —     | 54725.0                               | —     | 78234.0                                 | *-2.97 | 48884.0                                 | *3.56 | 40341.0                              | -1.47 | 79148.0                              | 0.66   |
| ABAH3_ARATH | NF                                    | —     | NF                                    | —     | NF                                      | —      | NF                                      | —     | NF                                   | —     | NF                                   | —      |
| PYL4_ARATH  | NF                                    | —     | 64731.0                               | —     | 36918.0                                 | —      | 15804.0                                 | —     | 14619.0                              | —     | 40971.0                              | —      |
| —           | —                                     | —     | —                                     | —     | 38747.0                                 | —      | 21971.0                                 | —     | 19339.0                              | 0.63  | 42598.0                              | —      |
| —           | —                                     | —     | —                                     | —     | 43509.0                                 | —      | 24931.0                                 | -1.22 | 38723.0                              | 0.39  | 80026.0                              | —      |
| —           | —                                     | —     | —                                     | —     | 46098.0                                 | —      | 26662.0                                 | —     | —                                    | —     | —                                    | —      |
| —           | —                                     | —     | —                                     | —     | 51985.0                                 | —      | —                                       | —     | —                                    | —     | —                                    | —      |
| PYL5_ARATH  | NF                                    | —     | NF                                    | —     | 32554.0                                 | —      | 7019.0                                  | —     | 16691.0                              | —     | 62278.0                              | —      |
| PYL8_ARATH  | 15351.0                               | —     | 65443.0                               | 0.26  | 52581.0                                 | -1.07  | 36519.0                                 | —     | 21321.0                              | -0.79 | 56716.0                              | —      |
| —           | 51713.0                               | —     | 30869.0                               | —     | 56051.0                                 | —      | 40593.0                                 | —     | 33428.0                              | —     | 65307.0                              | —      |
| —           | 9070.0                                | —     | 31615.0                               | —     | 56561.0                                 | —      | 53179.0                                 | —     | 46297.0                              | —     | 68408.0                              | *-2.53 |
| —           | 22672.0                               | 0.33  | —                                     | —     | 69954.0                                 | —      | 55647.0                                 | —     | 12507.0                              | —     | 74099.0                              | —      |
| —           | 60472.0                               | 1.19  | —                                     | —     | 79678.0                                 | —      | 49611.0                                 | —     | 43435.0                              | 0.29  | 77705.0                              | —      |
| —           | —                                     | —     | —                                     | —     | 9053.0                                  | —      | 28605.0                                 | 1.26  | 26244.0                              | -0.06 | 86165.0                              | —      |
| —           | —                                     | —     | —                                     | —     | 51531.0                                 | -0.38  | 54711.0                                 | —     | 32619.0                              | 0.71  | 48696.0                              | -0.88  |
| —           | —                                     | —     | —                                     | —     | 56894.0                                 | 0.45   | 680.0                                   | —     | —                                    | —     | 61932.0                              | -1.01  |

|              |         |       |         |      |         |        |         |       |         |       |         |       |
|--------------|---------|-------|---------|------|---------|--------|---------|-------|---------|-------|---------|-------|
| —            | —       | —     | —       | —    | 61592.0 | —      | —       | —     | —       | —     | 43429.0 | —     |
| AI5L5_ARATH  | 1997.0  | —     | 20640.0 | 0.72 | 14599.0 | —      | 15949.0 | —     | 16488.0 | —     | 58616.0 | 0.18  |
| —            | 31329.0 | 0.40  | 27826.0 | —    | 17403.0 | -0.21  | 21743.0 | -0.28 | 32826.0 | —     | 60111.0 | —     |
| —            | 32392.0 | —     | 59294.0 | 0.64 | 36195.0 | —      | 38777.0 | —     | 33412.0 | -0.03 | 79315.0 | —     |
| —            | 60308.0 | -1.29 | 63349.0 | —    | 55221.0 | —      | 39414.0 | —     | 52576.0 | -1.79 | 79821.0 | —     |
| —            | —       | —     | —       | —    | 73585.0 | —      | 42416.0 | —     | 35463.0 | —     | 80601.0 | 0.32  |
| —            | —       | —     | —       | —    | 79680.0 | -0.44  | 47950.0 | —     | —       | —     | 85753.0 | —     |
| —            | —       | —     | —       | —    | 14790.0 | 0.80   | 52731.0 | —     | —       | —     | 71374.0 | —     |
| —            | —       | —     | —       | —    | —       | —      | 55548.0 | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | —       | —      | 33036.0 | —     | —       | —     | —       | —     |
| AGAL_ORYSJ   | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| Q39958_HELAN | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| PIP21_ARATH  | NF      | —     | NF      | —    | 51261.0 | *-3.86 | 21024.0 | —     | 16268.0 | —     | 66614.0 | —     |
| —            | —       | —     | —       | —    | 2192.0  | —      | —       | —     | 38156.0 | —     | 62374.0 | —     |
| —            | —       | —     | —       | —    | 13245.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 22082.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 24320.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 4169.0  | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 17427.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 75869.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 9599.0  | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 57346.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 61247.0 | 1.33   | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —    | 71024.0 | —      | —       | —     | —       | —     | —       | —     |
| SPE1_ARATH   | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| RQL1_ARATH   | 27256.0 | —     | 52877.0 | —    | 1732.0  | —      | 41198.0 | —     | 29034.0 | —     | 81069.0 | —     |
| —            | 26364.0 | —     | 28967.0 | —    | 60935.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | 31648.0 | —    | 79488.0 | —      | —       | —     | —       | —     | —       | —     |
| RQL5_ARATH   | NF      | —     | NF      | —    | 15530.0 | —      | NF      | —     | 37859.0 | —     | 55195.0 | —     |
| —            | —       | —     | —       | —    | 50086.0 | —      | —       | —     | —       | —     | 83738.0 | —     |
| —            | —       | —     | —       | —    | 79234.0 | —      | —       | —     | —       | —     | —       | —     |
| SUV3M_ORYSJ  | 34806.0 | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| ARFG_ARATH   | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| BIG_ARATH    | 20176.0 | —     | 27359.0 | —    | 21102.0 | —      | 19408.0 | —     | 30289.0 | -0.60 | 34102.0 | —     |
| —            | 21773.0 | -0.24 | 28837.0 | 0.63 | 21538.0 | —      | 29644.0 | —     | 40436.0 | -0.01 | 48303.0 | *1.71 |
| —            | 48276.0 | 0.84  | 33816.0 | 0.33 | 75461.0 | -1.19  | 13916.0 | —     | 7679.0  | —     | 53644.0 | *1.91 |
| —            | 57508.0 | —     | 33972.0 | 0.11 | 32151.0 | —      | —       | —     | —       | —     | 28180.0 | —     |
| —            | 57508.1 | —     | 49773.0 | —    | —       | —      | —       | —     | —       | —     | —       | —     |
| —            | 59018.0 | —     | 58797.0 | 0.53 | —       | —      | —       | —     | —       | —     | —       | —     |

|                  |         |        |         |       |         |        |         |       |         |       |         |
|------------------|---------|--------|---------|-------|---------|--------|---------|-------|---------|-------|---------|
| —                | 40523.0 | *-1.53 | 63926.0 | —     | —       | —      | —       | —     | —       | —     | —       |
| —                | 32488.0 | -0.44  | 65540.0 | —     | —       | —      | —       | —     | —       | —     | —       |
| —                | —       | —      | 66590.0 | —     | —       | —      | —       | —     | —       | —     | —       |
| AUX1_ARATH       | 41000.0 | 0.13   | 48388.0 | —     | 22458.0 | -0.44  | 19406.0 | -1.19 | 19013.0 | 1.09  | 49241.0 |
| —                | 56453.0 | -1.08  | 59761.0 | 1.89  | 23034.0 | —      | 24315.0 | —     | 24409.0 | —     | 67389.0 |
| —                | —       | —      | 67537.0 | 1.47  | 42284.0 | —      | 44098.0 | -2.11 | 38423.0 | —     | 73976.0 |
| —                | —       | —      | —       | —     | 59703.0 | *-1.69 | 46672.0 | —     | 43511.0 | —     | 81710.0 |
| —                | —       | —      | —       | —     | 60652.0 | -0.42  | 57621.0 | —     | 52709.0 | —     | 91781.0 |
| —                | —       | —      | —       | —     | 51426.0 | —      | 14507.0 | —     | —       | —     | 60027.0 |
| —                | —       | —      | —       | —     | —       | —      | 12132.0 | —     | —       | —     | —       |
| Q6IVL3_GOSHI     | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      |
| CDPKN_ARATH      | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      |
| CB22_ARATH       | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      |
| CB3_ARATH        | 33647.0 | 0.88   | 29531.0 | —     | 28158.0 | —      | 11689.0 | —     | 21075.0 | —     | 50686.0 |
| CA4_ARATH        | 40546.0 | *-1.89 | 12301.0 | —     | 43886.0 | —      | NF      | —     | NF      | —     | 8266.0  |
| —                | 40113.0 | *-1.70 | 20719.0 | —     | 9244.0  | —      | —       | —     | —       | —     | 42550.0 |
| —                | 28496.0 | —      | —       | —     | 63696.0 | 1.01   | —       | —     | —       | —     | 45962.0 |
| —                | —       | —      | —       | —     | 13901.0 | —      | —       | —     | —       | —     | 47470.0 |
| —                | —       | —      | —       | —     | —       | —      | —       | —     | —       | —     | 60006.0 |
| —                | —       | —      | —       | —     | —       | —      | —       | —     | —       | —     | 88113.0 |
| CSP2_ARATH       | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      |
| DRE1A_ARATH      | 20891.0 | —      | 69584.0 | —     | NF      | —      | NF      | —     | NF      | —     | NF      |
| DRE1B_ARATH      | 31625.0 | —      | 31046.0 | —     | NF      | —      | NF      | —     | NF      | —     | NF      |
| —                | —       | —      | 39486.0 | —     | —       | —      | —       | —     | —       | —     | —       |
| —                | 3975.0  | —      | 46882.0 | —     | —       | —      | —       | —     | —       | —     | —       |
| —                | —       | —      | 46882.0 | —     | —       | —      | —       | —     | —       | —     | —       |
| DRE1C_ARATH      | NF      | —      | NF      | —     | 49962.0 | —      | 2184.0  | —     | 26626.0 | —     | 35024.0 |
| —                | —       | —      | —       | —     | —       | —      | 4186.0  | —     | 40833.0 | -1.07 | 48587.0 |
| DRE2A_ARATH      | NF      | —      | 32555.0 | —     | 57685.0 | —      | 37216.0 | —     | 53037.0 | —     | 65485.0 |
| —                | —       | —      | 48161.0 | —     | 68844.0 | —      | 1348.0  | —     | 40862.0 | *2.21 | 51543.0 |
| —                | —       | —      | —       | —     | 36498.0 | —      | 2488.0  | —     | 53836.0 | *1.99 | 90226.0 |
| COR47_ARATH      | 42834.0 | *2.10  | 27118.0 | 0.87  | 3433.0  | —      | NF      | —     | 45038.0 | —     | 49053.0 |
| —                | —       | —      | 60204.0 | —     | NF      | —      | —       | —     | —       | —     | —       |
| RZF1_ARATH       | 27763.1 | —      | 35403.0 | —     | 19813.0 | —      | NF      | —     | NF      | —     | NF      |
| SDIR1_ARATH      | 56824.0 | *-1.96 | 35045.0 | -0.27 | 20889.0 | —      | 55882.0 | —     | 30086.0 | —     | 43117.0 |
| —                | 20382.0 | —      | 44788.0 | 0.39  | 60311.0 | —      | 1710.0  | —     | 33144.0 | —     | 65865.0 |
| —                | 43020.0 | -0.84  | 48693.0 | —     | 66070.0 | —      | 35587.0 | —     | 10214.0 | —     | 31466.0 |
| —                | —       | —      | —       | —     | 18538.0 | —      | 29054.0 | —     | —       | —     | 29667.0 |
| A0A1S2Z179_CICAR | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      |

|             |         |       |         |       |         |        |         |       |                     |       |         |       |
|-------------|---------|-------|---------|-------|---------|--------|---------|-------|---------------------|-------|---------|-------|
| SINA3_ARATH | 51265.0 | -0.26 | 26018.0 | —     | 33582.0 | 0.41   | 42684.0 | -0.52 | 43359.0             | 0.19  | 87037.0 | -0.73 |
| —           | 32570.0 | -0.01 | 34484.0 | —     | 18831.0 | -0.58  | 46118.0 | 0.69  | 43690.0             | -0.17 | 77433.0 | -0.84 |
| —           | 47711.0 | -1.47 | 53934.0 | 0.34  | —       | —      | —       | —     | —                   | —     | —       | —     |
| —           | —       | —     | 60529.0 | 0.55  | —       | —      | —       | —     | —                   | —     | —       | —     |
| ELP1_ARATH  | 39468.0 | -0.21 | 29575.0 | 0.43  | 51648.0 | —      | 52021.0 | —     | Cluster-<br>20592.0 | —     | 44084.0 | —     |
| —           | 9730.0  | —     | —       | —     | 42238.1 | 0.17   | 52021.2 | -0.40 | Cluster-<br>43395.0 | -0.13 | 82243.0 | -1.38 |
| —           | 35892.0 | -0.10 | —       | —     | 42238.0 | —      | 52021.1 | —     | —                   | —     | 38666.0 | —     |
| —           | 62044.0 | -0.36 | —       | —     | —       | —      | —       | —     | —                   | —     | —       | —     |
| ABI4_ARATH  | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF                  | —     | NF      | —     |
| WIN1_ARATH  | NF      | —     | 45954.0 | —     | 28899.0 | —      | 1632.0  | —     | 50935.0             | —     | NF      | —     |
| —           | —       | —     | —       | —     | 3476.0  | —      | 19788.0 | —     | 25222.0             | —     | —       | —     |
| ALFC7_ARATH | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF                  | —     | NF      | —     |
| GOLS3_ARATH | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF                  | —     | NF      | —     |
| GSTFA_ARATH | NF      | —     | 41497.0 | —     | NF      | —      | NF      | —     | NF                  | —     | NF      | —     |
| GSTUJ_ARATH | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF                  | —     | NF      | —     |
| HPR1_ARATH  | 17372.0 | —     | 36501.0 | —     | 73490.0 | —      | 364.0   | —     | 9949.0              | —     | 86714.0 | —     |
| —           | 60671.0 | —     | 57114.0 | —     | 56851.0 | —      | —       | —     | 35920.0             | —     | —       | —     |
| GLPK_ARATH  | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF                  | —     | 48301.0 | —     |
| GLYR1_ARATH | 35836.0 | —     | 37301.0 | —     | 63668.0 | —      | 57557.0 | —     | 39568.0             | -0.67 | 81750.0 | —     |
| —           | —       | —     | —       | —     | 1141.0  | —      | 31059.0 | —     | 8548.0              | —     | 56776.0 | —     |
| —           | —       | —     | —       | —     | 13446.0 | —      | —       | —     | 13094.0             | —     | 5765.0  | —     |
| —           | —       | —     | —       | —     | 46780.0 | 0.01   | —       | —     | —                   | —     | 64278.0 | —     |
| —           | —       | —     | —       | —     | 52601.0 | —      | —       | —     | —                   | —     | —       | —     |
| SLAC1_ARATH | 7432.0  | —     | NF      | —     | 63580.0 | *-2.65 | 25632.0 | —     | 35818.0             | 0.87  | NF      | —     |
| AHK1_ARATH  | 28013.0 | —     | 41916.0 | —     | 24650.0 | —      | 18000.0 | —     | 46685.0             | —     | 77788.0 | —     |
| —           | 63284.0 | -0.20 | 4422.0  | —     | 49294.1 | —      | 40232.0 | —     | 19410.0             | 0.04  | 81623.0 | —     |
| —           | —       | —     | —       | —     | 24650.1 | -0.98  | —       | —     | —                   | —     | 6718.0  | —     |
| AHK3_ARATH  | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF                  | —     | NF      | —     |
| AHK4_ARATH  | 37288.0 | 1.64  | 19175.0 | —     | 59014.0 | 1.17   | 32554.0 | -1.41 | 23810.0             | -0.56 | 74833.0 | -0.59 |
| —           | 40197.0 | —     | 41092.0 | 1.63  | —       | —      | —       | —     | —                   | —     | —       | —     |
| —           | 56831.0 | 1.46  | 44187.0 | 1.74  | —       | —      | —       | —     | —                   | —     | —       | —     |
| —           | 39205.0 | —     | —       | —     | —       | —      | —       | —     | —                   | —     | —       | —     |
| AHP5_ARATH  | 33135.0 | 0.44  | 44232.0 | 0.31  | 3642.0  | —      | NF      | —     | 16727.0             | —     | 42384.0 | —     |
| —           | 30617.0 | 0.06  | 67132.0 | -0.79 | —       | —      | —       | —     | —                   | —     | —       | —     |
| YUC6_ARATH  | NF      | —     | NF      | —     | 45456.0 | —      | 41005.0 | —     | 50129.0             | —     | 22995.0 | —     |
| —           | —       | —     | —       | —     | 8311.0  | —      | —       | —     | 9948.0              | —     | —       | —     |
| —           | —       | —     | —       | —     | 54283.0 | —      | —       | —     | —                   | —     | —       | —     |

|              |         |       |         |        |         |       |         |      |         |       |         |       |
|--------------|---------|-------|---------|--------|---------|-------|---------|------|---------|-------|---------|-------|
| B6UH99_MAIZE | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| Q9M0X3_ARATH | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| F4JQF1_ARATH | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| LEA46_ARATH  | 6646.0  | —     | 11690.0 | —      | 11294.0 | —     | NF      | —    | NF      | —     | 78366.0 | —     |
| —            | 6725.0  | —     | 52317.0 | 1.09   | —       | —     | —       | —    | —       | —     | —       | —     |
| —            | 32615.0 | —     | 10766.0 | —      | —       | —     | —       | —    | —       | —     | —       | —     |
| LEA41_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| LACS2_ARATH  | 37578.0 | 0.74  | 44475.0 | —      | 74518.0 | —     | 9880.0  | —    | 23105.0 | —     | NF      | —     |
| —            | —       | —     | —       | —      | 63173.0 | —     | —       | —    | —       | —     | —       | —     |
| MED25_ARATH  | 40951.0 | -1.21 | 62487.0 | 0.49   | 40206.0 | —     | 37187.0 | —    | 38565.0 | —     | 29020.0 | —     |
| VDAC3_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PUMP1_ARATH  | 62786.0 | —     | 48804.0 | —      | 33421.0 | —     | 22483.0 | —    | 13619.0 | —     | 57109.0 | —     |
| —            | 8716.0  | —     | 55602.0 | —      | 54638.0 | —     | 36943.0 | —    | 30795.0 | 0.35  | 46907.0 | —     |
| —            | 43319.0 | 0.28  | 65832.0 | -0.04  | 27543.0 | -0.13 | 41493.0 | 1.18 | —       | —     | 48231.1 | 0.27  |
| M2K1_ARATH   | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| MP3K2_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| NAC52_ARATH  | NF      | —     | NF      | —      | 52816.0 | -0.10 | 52054.0 | —    | 35797.0 | 0.78  | 33176.0 | *2.00 |
| —            | —       | —     | —       | —      | —       | —     | 559.0   | —    | 46290.0 | 0.97  | 80639.0 | —     |
| NAC40_ARATH  | 37788.0 | —     | NF      | —      | 23175.0 | -0.58 | 14773.0 | —    | 43811.0 | -1.12 | 86643.0 | 1.00  |
| —            | —       | —     | —       | —      | —       | —     | 43581.0 | 0.82 | —       | —     | —       | —     |
| NAC48_ORYSJ  | 56568.0 | 0.42  | 32595.0 | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| NAC53_ARATH  | 27987.0 | -1.47 | 53278.0 | 0.20   | 43602.0 | —     | 25392.0 | —    | 24549.0 | -0.88 | 67740.0 | —     |
| —            | —       | —     | —       | —      | 75638.0 | -1.12 | 46806.0 | 0.06 | 47866.0 | -0.03 | 70886.0 | -0.14 |
| NAC62_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| NAC56_ARATH  | 28107.0 | —     | 48011.0 | *2.90  | 18762.0 | —     | 29455.0 | —    | 15242.0 | —     | 56652.0 | —     |
| —            | 51001.0 | 0.00  | —       | —      | 48643.0 | —     | 49666.0 | —    | 50239.0 | —     | —       | —     |
| —            | —       | —     | —       | —      | 57201.0 | —     | —       | —    | —       | —     | —       | —     |
| NDUS1_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| AKRC9_ARATH  | 10817.0 | —     | 29343.0 | -0.22  | 2082.0  | —     | 23710.0 | —    | 44077.0 | —     | 37016.0 | —     |
| —            | 44870.0 | 0.68  | 39628.0 | —      | 46868.0 | —     | 52521.0 | —    | 28509.0 | 0.71  | 85265.0 | —     |
| —            | —       | —     | —       | —      | 63167.0 | -0.11 | 37228.0 | —    | —       | —     | 87849.0 | —     |
| —            | —       | —     | —       | —      | —       | —     | —       | —    | —       | —     | 69958.0 | 1.53  |
| NPC4_ARATH   | NF      | —     | NF      | —      | 73777.0 | —     | 35738.0 | 1.57 | 14807.0 | —     | 66947.0 | 0.00  |
| —            | —       | —     | —       | —      | 63382.0 | —     | 49197.0 | —    | 16543.0 | —     | 87126.0 | —     |
| Q5U9M2_ORYSJ | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| Q0J265_ORYSJ | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PER33_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PER34_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PGL1A_ARATH  | 41556.0 | —     | 34846.0 | *-3.47 | 14163.0 | 0.72  | 54107.0 | —    | 37867.0 | 0.64  | 88780.0 | —     |

|              |         |       |         |       |         |        |         |       |         |       |         |       |
|--------------|---------|-------|---------|-------|---------|--------|---------|-------|---------|-------|---------|-------|
| —            | 45791.0 | 0.46  | 47604.0 | —     | —       | —      | —       | —     | —       | —     | —       |       |
| RFS5_ARATH   | 33272.0 | 1.14  | 29161.0 | -1.07 | 76965.0 | *-1.81 | 42554.0 | —     | 31224.0 | 0.25  | 24183.0 | —     |
| ABI5_ARATH   | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| AB1K1_ARATH  | NF      | —     | NF      | —     | 18052.0 | 0.63   | 18851.0 | —     | 21916.0 | 0.59  | 85765.0 | —     |
| DTX43_ARATH  | 38777.0 | -0.51 | 31816.0 | 1.31  | 74815.0 | —      | 53199.0 | —     | NF      | —     | 35781.0 | 0.36  |
| ERD15_ARATH  | 51610.0 | —     | 56471.0 | 0.83  | 49900.0 | —      | 11294.0 | —     | 12794.0 | —     | NF      | —     |
| —            | 45143.0 | *2.03 | 23659.0 | —     | 53720.0 | —      | 21884.0 | —     | —       | —     | —       | —     |
| —            | —       | —     | —       | —     | 54119.0 | —      | 33027.0 | —     | —       | —     | —       | —     |
| MET1_ARATH   | 11490.0 | —     | 35467.0 | —     | 53131.0 | —      | 3381.0  | —     | 42413.0 | —     | 52721.0 | —     |
| —            | 4644.0  | —     | 47231.0 | —     | 67555.0 | —      | 1241.0  | —     | 8864.0  | —     | 64336.0 | —     |
| —            | 59675.0 | 1.68  | 62256.0 | —     | 77088.0 | —      | —       | —     | —       | —     | —       | —     |
| —            | —       | —     | 62817.0 | —     | —       | —      | —       | —     | —       | —     | —       | —     |
| Q7XJ04_ORYSJ | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| PPOX1_ARATH  | NF      | —     | NF      | —     | 3876.0  | —      | NF      | —     | NF      | —     | 61957.0 | —     |
| KPYC_SOLTU   | 21152.0 | —     | 46855.0 | 0.17  | 15938.0 | 0.73   | 20924.0 | —     | 20212.0 | —     | 34022.0 | —     |
| —            | 59308.0 | 0.50  | 13113.0 | —     | 54391.0 | 0.03   | 51040.0 | —     | 49462.0 | 0.29  | 41166.0 | —     |
| —            | 33594.0 | -0.04 | 54144.0 | -0.41 | 44621.0 | 0.59   | 36848.0 | —     | 36745.0 | 0.34  | 61364.0 | -0.25 |
| —            | —       | —     | 69874.0 | —     | —       | —      | 53550.0 | —     | 26476.0 | 0.14  | 50495.0 | 0.85  |
| SCAB1_ARATH  | 52232.0 | -0.37 | 64162.0 | -1.26 | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| SDHA1_ARATH  | 5306.0  | —     | 29476.0 | —     | 2363.0  | —      | 11223.0 | —     | 44543.0 | —     | 40732.0 | 0.43  |
| —            | 20705.0 | —     | 50151.0 | 0.07  | 28329.0 | -0.08  | 31139.0 | —     | 32086.0 | -0.44 | 73750.0 | —     |
| —            | 27994.0 | —     | 54037.0 | —     | 60915.0 | —      | 39401.0 | —     | 50388.0 | 0.48  | 76700.0 | 0.79  |
| —            | 32538.0 | -0.46 | 49108.0 | —     | 17720.0 | -0.79  | 45717.0 | —     | —       | —     | 82501.0 | 0.42  |
| —            | —       | —     | —       | —     | 71899.0 | 0.18   | 34920.0 | —     | —       | —     | 41179.0 | —     |
| SUC1_ARATH   | NF      | —     | 53.0    | —     | 63389.0 | —      | NF      | —     | 14608.0 | —     | NF      | —     |
| STP2_ARATH   | NF      | —     | NF      | —     | 23059.0 | —      | NF      | —     | 16902.0 | —     | 8031.0  | —     |
| MYB96_ARATH  | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| PUB13_ARATH  | 48555.0 | —     | 62220.0 | —     | 37304.1 | 0.21   | 44478.1 | —     | 35577.0 | 0.51  | 37121.1 | 0.97  |
| —            | 50250.0 | 0.22  | 33008.0 | -0.73 | 59676.0 | -0.04  | 39001.0 | 0.90  | 53555.0 | -0.37 | 68441.0 | -0.13 |
| 14333_ORYSJ  | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| PSD8A_ARATH  | 22463.0 | —     | 66259.0 | —     | 12249.0 | —      | 47360.0 | —     | 18856.0 | —     | 64380.0 | 1.36  |
| —            | 8305.0  | —     | —       | —     | 51036.0 | -1.24  | 51649.0 | 0.62  | 31880.0 | 0.32  | 66290.0 | —     |
| —            | 27506.0 | —     | —       | —     | 66230.0 | —      | 49806.0 | —     | 8982.0  | —     | 74369.0 | —     |
| —            | —       | —     | —       | —     | 26428.0 | -0.02  | 18766.0 | —     | 23097.0 | -0.04 | 73950.0 | 0.38  |
| —            | —       | —     | —       | —     | 28677.0 | *-1.40 | 44515.0 | —     | 38364.0 | 0.56  | 75718.0 | -0.08 |
| KCS12_ARATH  | 59862.0 | —     | NF      | —     | 35325.0 | -0.25  | 31896.0 | —     | 30958.0 | -0.39 | NF      | —     |
| NCED3_ARATH  | 37429.0 | —     | 54725.0 | —     | 78234.0 | *-2.97 | 48884.0 | *3.56 | 40341.0 | -1.47 | 79148.0 | 0.66  |
| ABA3_ARATH   | NF      | —     | NF      | —     | NF      | —      | NF      | —     | NF      | —     | NF      | —     |
| PYL4_ARATH   | NF      | —     | 64731.0 | —     | 36918.0 | —      | 15804.0 | —     | 14619.0 | —     | 40971.0 | —     |

|              |         |       |         |      |         |        |         |       |         |       |         |        |
|--------------|---------|-------|---------|------|---------|--------|---------|-------|---------|-------|---------|--------|
| —            | —       | —     | —       | —    | 38747.0 | —      | 21971.0 | —     | 19339.0 | 0.63  | 42598.0 | —      |
| —            | —       | —     | —       | —    | 43509.0 | —      | 24931.0 | -1.22 | 38723.0 | 0.39  | 80026.0 | —      |
| —            | —       | —     | —       | —    | 46098.0 | —      | 26662.0 | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 51985.0 | —      | —       | —     | —       | —     | —       | —      |
| PYL5_ARATH   | NF      | —     | NF      | —    | 32554.0 | —      | 7019.0  | —     | 16691.0 | —     | 62278.0 | —      |
| PYL8_ARATH   | 15351.0 | —     | 65443.0 | 0.26 | 52581.0 | -1.07  | 36519.0 | —     | 21321.0 | -0.79 | 56716.0 | —      |
| —            | 51713.0 | —     | 30869.0 | —    | 56051.0 | —      | 40593.0 | —     | 33428.0 | —     | 65307.0 | —      |
| —            | 9070.0  | —     | 31615.0 | —    | 56561.0 | —      | 53179.0 | —     | 46297.0 | —     | 68408.0 | *-2.53 |
| —            | 22672.0 | 0.33  | —       | —    | 69954.0 | —      | 55647.0 | —     | 12507.0 | —     | 74099.0 | —      |
| —            | 60472.0 | 1.19  | —       | —    | 79678.0 | —      | 49611.0 | —     | 43435.0 | 0.29  | 77705.0 | —      |
| —            | —       | —     | —       | —    | 9053.0  | —      | 28605.0 | 1.26  | 26244.0 | -0.06 | 86165.0 | —      |
| —            | —       | —     | —       | —    | 51531.0 | -0.38  | 54711.0 | —     | 32619.0 | 0.71  | 48696.0 | -0.88  |
| —            | —       | —     | —       | —    | 56894.0 | 0.45   | 680.0   | —     | —       | —     | 61932.0 | -1.01  |
| —            | —       | —     | —       | —    | 61592.0 | —      | —       | —     | —       | —     | 43429.0 | —      |
| AI5L5_ARATH  | 1997.0  | —     | 20640.0 | 0.72 | 14599.0 | —      | 15949.0 | —     | 16488.0 | —     | 58616.0 | 0.18   |
| —            | 31329.0 | 0.40  | 27826.0 | —    | 17403.0 | -0.21  | 21743.0 | -0.28 | 32826.0 | —     | 60111.0 | —      |
| —            | 32392.0 | —     | 59294.0 | 0.64 | 36195.0 | —      | 38777.0 | —     | 33412.0 | -0.03 | 79315.0 | —      |
| —            | 60308.0 | -1.29 | 63349.0 | —    | 55221.0 | —      | 39414.0 | —     | 52576.0 | -1.79 | 79821.0 | —      |
| —            | —       | —     | —       | —    | 73585.0 | —      | 42416.0 | —     | 35463.0 | —     | 80601.0 | 0.32   |
| —            | —       | —     | —       | —    | 79680.0 | -0.44  | 47950.0 | —     | —       | —     | 85753.0 | —      |
| —            | —       | —     | —       | —    | 14790.0 | 0.80   | 52731.0 | —     | —       | —     | 71374.0 | —      |
| —            | —       | —     | —       | —    | —       | —      | 55548.0 | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | —       | —      | 33036.0 | —     | —       | —     | —       | —      |
| AGAL_ORYSJ   | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —      |
| Q39958_HELAN | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —      |
| PIP21_ARATH  | NF      | —     | NF      | —    | 51261.0 | *-3.86 | 21024.0 | —     | 16268.0 | —     | 66614.0 | —      |
| —            | —       | —     | —       | —    | 2192.0  | —      | —       | —     | 38156.0 | —     | 62374.0 | —      |
| —            | —       | —     | —       | —    | 13245.0 | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 22082.0 | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 24320.0 | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 4169.0  | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 17427.0 | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 75869.0 | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 9599.0  | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 57346.0 | —      | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 61247.0 | 1.33   | —       | —     | —       | —     | —       | —      |
| —            | —       | —     | —       | —    | 71024.0 | —      | —       | —     | —       | —     | —       | —      |
| SPE1_ARATH   | NF      | —     | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      | —      |
| RQL1_ARATH   | 27256.0 | —     | 52877.0 | —    | 1732.0  | —      | 41198.0 | —     | 29034.0 | —     | 81069.0 | —      |

|              |         |        |         |      |         |        |         |       |         |       |         |
|--------------|---------|--------|---------|------|---------|--------|---------|-------|---------|-------|---------|
| —            | 26364.0 | —      | 28967.0 | —    | 60935.0 | —      | —       | —     | —       | —     | —       |
| —            | —       | —      | 31648.0 | —    | 79488.0 | —      | —       | —     | —       | —     | —       |
| RQL5_ARATH   | NF      | —      | NF      | —    | 15530.0 | —      | NF      | —     | 37859.0 | —     | 55195.0 |
| —            | —       | —      | —       | —    | 50086.0 | —      | —       | —     | —       | —     | 83738.0 |
| —            | —       | —      | —       | —    | 79234.0 | —      | —       | —     | —       | —     | —       |
| SUV3M_ORYSJ  | 34806.0 | —      | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| ARFG_ARATH   | NF      | —      | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| BIG_ARATH    | 20176.0 | —      | 27359.0 | —    | 21102.0 | —      | 19408.0 | —     | 30289.0 | -0.60 | 34102.0 |
| —            | 21773.0 | -0.24  | 28837.0 | 0.63 | 21538.0 | —      | 29644.0 | —     | 40436.0 | -0.01 | 48303.0 |
| —            | 48276.0 | 0.84   | 33816.0 | 0.33 | 75461.0 | -1.19  | 13916.0 | —     | 7679.0  | —     | 53644.0 |
| —            | 57508.0 | —      | 33972.0 | 0.11 | 32151.0 | —      | —       | —     | —       | —     | 28180.0 |
| —            | 57508.1 | —      | 49773.0 | —    | —       | —      | —       | —     | —       | —     | —       |
| —            | 59018.0 | —      | 58797.0 | 0.53 | —       | —      | —       | —     | —       | —     | —       |
| —            | 40523.0 | *-1.53 | 63926.0 | —    | —       | —      | —       | —     | —       | —     | —       |
| —            | 32488.0 | -0.44  | 65540.0 | —    | —       | —      | —       | —     | —       | —     | —       |
| —            | —       | —      | 66590.0 | —    | —       | —      | —       | —     | —       | —     | —       |
| AUX1_ARATH   | 41000.0 | 0.13   | 48388.0 | —    | 22458.0 | -0.44  | 19406.0 | -1.19 | 19013.0 | 1.09  | 49241.0 |
| —            | 56453.0 | -1.08  | 59761.0 | 1.89 | 23034.0 | —      | 24315.0 | —     | 24409.0 | —     | 67389.0 |
| —            | —       | —      | 67537.0 | 1.47 | 42284.0 | —      | 44098.0 | -2.11 | 38423.0 | —     | 73976.0 |
| —            | —       | —      | —       | —    | 59703.0 | *-1.69 | 46672.0 | —     | 43511.0 | —     | 81710.0 |
| —            | —       | —      | —       | —    | 60652.0 | -0.42  | 57621.0 | —     | 52709.0 | —     | 91781.0 |
| —            | —       | —      | —       | —    | 51426.0 | —      | 14507.0 | —     | —       | —     | 60027.0 |
| —            | —       | —      | —       | —    | —       | —      | 12132.0 | —     | —       | —     | —       |
| Q6IVL3_GOSHI | NF      | —      | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| CDPKN_ARATH  | NF      | —      | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| CB22_ARATH   | NF      | —      | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| CB3_ARATH    | 33647.0 | 0.88   | 29531.0 | —    | 28158.0 | —      | 11689.0 | —     | 21075.0 | —     | 50686.0 |
| CA4_ARATH    | 40546.0 | *-1.89 | 12301.0 | —    | 43886.0 | —      | NF      | —     | NF      | —     | 8266.0  |
| —            | 40113.0 | *-1.70 | 20719.0 | —    | 9244.0  | —      | —       | —     | —       | —     | 42550.0 |
| —            | 28496.0 | —      | —       | —    | 63696.0 | 1.01   | —       | —     | —       | —     | 45962.0 |
| —            | —       | —      | —       | —    | 13901.0 | —      | —       | —     | —       | —     | 47470.0 |
| —            | —       | —      | —       | —    | —       | —      | —       | —     | —       | —     | 60006.0 |
| —            | —       | —      | —       | —    | —       | —      | —       | —     | —       | —     | 88113.0 |
| CSP2_ARATH   | NF      | —      | NF      | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| DRE1A_ARATH  | 20891.0 | —      | 69584.0 | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| DRE1B_ARATH  | 31625.0 | —      | 31046.0 | —    | NF      | —      | NF      | —     | NF      | —     | NF      |
| —            | —       | —      | 39486.0 | —    | —       | —      | —       | —     | —       | —     | —       |
| —            | 3975.0  | —      | 46882.0 | —    | —       | —      | —       | —     | —       | —     | —       |
| —            | —       | —      | 46882.0 | —    | —       | —      | —       | —     | —       | —     | —       |

|                  |         |        |         |       |         |        |         |       |                 |       |         |       |
|------------------|---------|--------|---------|-------|---------|--------|---------|-------|-----------------|-------|---------|-------|
| DRE1C_ARATH      | NF      | —      | NF      | —     | 49962.0 | —      | 2184.0  | —     | 26626.0         | —     | 35024.0 | —     |
| —                | —       | —      | —       | —     | —       | —      | 4186.0  | —     | 40833.0         | -1.07 | 48587.0 | 1.09  |
| DRE2A_ARATH      | NF      | —      | 32555.0 | —     | 57685.0 | —      | 37216.0 | —     | 53037.0         | —     | 65485.0 | —     |
| —                | —       | —      | 48161.0 | —     | 68844.0 | —      | 1348.0  | —     | 40862.0         | *2.21 | 51543.0 | —     |
| —                | —       | —      | —       | —     | 36498.0 | —      | 2488.0  | —     | 53836.0         | *1.99 | 90226.0 | -0.41 |
| COR47_ARATH      | 42834.0 | *2.10  | 27118.0 | 0.87  | 3433.0  | —      | NF      | —     | 45038.0         | —     | 49053.0 | —     |
| —                | —       | —      | 60204.0 | —     | NF      | —      | —       | —     | —               | —     | —       | —     |
| RZF1_ARATH       | 27763.1 | —      | 35403.0 | —     | 19813.0 | —      | NF      | —     | NF              | —     | NF      | —     |
| SDIR1_ARATH      | 56824.0 | *-1.96 | 35045.0 | -0.27 | 20889.0 | —      | 55882.0 | —     | 30086.0         | —     | 43117.0 | —     |
| —                | 20382.0 | —      | 44788.0 | 0.39  | 60311.0 | —      | 1710.0  | —     | 33144.0         | —     | 65865.0 | —     |
| —                | 43020.0 | -0.84  | 48693.0 | —     | 66070.0 | —      | 35587.0 | —     | 10214.0         | —     | 31466.0 | —     |
| —                | —       | —      | —       | —     | 18538.0 | —      | 29054.0 | —     | —               | —     | 29667.0 | —     |
| A0A1S2Z179_CICAR | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF              | —     | NF      | —     |
| SINA3_ARATH      | 51265.0 | -0.26  | 26018.0 | —     | 33582.0 | 0.41   | 42684.0 | -0.52 | 43359.0         | 0.19  | 87037.0 | -0.73 |
| —                | 32570.0 | -0.01  | 34484.0 | —     | 18831.0 | -0.58  | 46118.0 | 0.69  | 43690.0         | -0.17 | 77433.0 | -0.84 |
| —                | 47711.0 | -1.47  | 53934.0 | 0.34  | —       | —      | —       | —     | —               | —     | —       | —     |
| —                | —       | —      | 60529.0 | 0.55  | —       | —      | —       | —     | —               | —     | —       | —     |
| ELP1_ARATH       | 39468.0 | -0.21  | 29575.0 | 0.43  | 51648.0 | —      | 52021.0 | —     | Cluster-20592.0 | —     | 44084.0 | —     |
| —                | 9730.0  | —      | —       | —     | 42238.1 | 0.17   | 52021.2 | -0.40 | Cluster-43395.0 | -0.13 | 82243.0 | -1.38 |
| —                | 35892.0 | -0.10  | —       | —     | 42238.0 | —      | 52021.1 | —     | —               | —     | 38666.0 | —     |
| —                | 62044.0 | -0.36  | —       | —     | —       | —      | —       | —     | —               | —     | —       | —     |
| ABI4_ARATH       | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF              | —     | NF      | —     |
| WIN1_ARATH       | NF      | —      | 45954.0 | —     | 28899.0 | —      | 1632.0  | —     | 50935.0         | —     | NF      | —     |
| —                | —       | —      | —       | —     | 3476.0  | —      | 19788.0 | —     | 25222.0         | —     | —       | —     |
| ALFC7_ARATH      | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF              | —     | NF      | —     |
| GOLS3_ARATH      | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF              | —     | NF      | —     |
| GSTFA_ARATH      | NF      | —      | 41497.0 | —     | NF      | —      | NF      | —     | NF              | —     | NF      | —     |
| GSTUJ_ARATH      | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF              | —     | NF      | —     |
| HPR1_ARATH       | 17372.0 | —      | 36501.0 | —     | 73490.0 | —      | 364.0   | —     | 9949.0          | —     | 86714.0 | —     |
| —                | 60671.0 | —      | 57114.0 | —     | 56851.0 | —      | —       | —     | 35920.0         | —     | —       | —     |
| GLPK_ARATH       | NF      | —      | NF      | —     | NF      | —      | NF      | —     | NF              | —     | 48301.0 | —     |
| GLYR1_ARATH      | 35836.0 | —      | 37301.0 | —     | 63668.0 | —      | 57557.0 | —     | 39568.0         | -0.67 | 81750.0 | —     |
| —                | —       | —      | —       | —     | 1141.0  | —      | 31059.0 | —     | 8548.0          | —     | 56776.0 | —     |
| —                | —       | —      | —       | —     | 13446.0 | —      | —       | —     | 13094.0         | —     | 5765.0  | —     |
| —                | —       | —      | —       | —     | 46780.0 | 0.01   | —       | —     | —               | —     | 64278.0 | —     |
| —                | —       | —      | —       | —     | 52601.0 | —      | —       | —     | —               | —     | —       | —     |
| SLAC1_ARATH      | 7432.0  | —      | NF      | —     | 63580.0 | *-2.65 | 25632.0 | —     | 35818.0         | 0.87  | NF      | —     |

|              |         |       |         |       |         |       |         |       |         |       |         |       |
|--------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| AHK1_ARATH   | 28013.0 | —     | 41916.0 | —     | 24650.0 | —     | 18000.0 | —     | 46685.0 | —     | 77788.0 | —     |
| —            | 63284.0 | -0.20 | 4422.0  | —     | 49294.1 | —     | 40232.0 | —     | 19410.0 | 0.04  | 81623.0 | —     |
| —            | —       | —     | —       | —     | 24650.1 | -0.98 | —       | —     | —       | —     | 6718.0  | —     |
| AHK3_ARATH   | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| AHK4_ARATH   | 37288.0 | 1.64  | 19175.0 | —     | 59014.0 | 1.17  | 32554.0 | -1.41 | 23810.0 | -0.56 | 74833.0 | -0.59 |
| —            | 40197.0 | —     | 41092.0 | 1.63  | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 56831.0 | 1.46  | 44187.0 | 1.74  | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 39205.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| AHP5_ARATH   | 33135.0 | 0.44  | 44232.0 | 0.31  | 3642.0  | —     | NF      | —     | 16727.0 | —     | 42384.0 | —     |
| —            | 30617.0 | 0.06  | 67132.0 | -0.79 | —       | —     | —       | —     | —       | —     | —       | —     |
| YUC6_ARATH   | NF      | —     | NF      | —     | 45456.0 | —     | 41005.0 | —     | 50129.0 | —     | 22995.0 | —     |
| —            | —       | —     | —       | —     | 8311.0  | —     | —       | —     | 9948.0  | —     | —       | —     |
| —            | —       | —     | —       | —     | 54283.0 | —     | —       | —     | —       | —     | —       | —     |
| B6UH99_MAIZE | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| Q9M0X3_ARATH | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| F4JQF1_ARATH | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| LEA46_ARATH  | 6646.0  | —     | 11690.0 | —     | 11294.0 | —     | NF      | —     | NF      | —     | 78366.0 | —     |
| —            | 6725.0  | —     | 52317.0 | 1.09  | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 32615.0 | —     | 10766.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| LEA41_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| LACS2_ARATH  | 37578.0 | 0.74  | 44475.0 | —     | 74518.0 | —     | 9880.0  | —     | 23105.0 | —     | NF      | —     |
| —            | —       | —     | —       | —     | 63173.0 | —     | —       | —     | —       | —     | —       | —     |
| MED25_ARATH  | 40951.0 | -1.21 | 62487.0 | 0.49  | 40206.0 | —     | 37187.0 | —     | 38565.0 | —     | 29020.0 | —     |
| VDAC3_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| PUMP1_ARATH  | 62786.0 | —     | 48804.0 | —     | 33421.0 | —     | 22483.0 | —     | 13619.0 | —     | 57109.0 | —     |
| —            | 8716.0  | —     | 55602.0 | —     | 54638.0 | —     | 36943.0 | —     | 30795.0 | 0.35  | 46907.0 | —     |
| —            | 43319.0 | 0.28  | 65832.0 | -0.04 | 27543.0 | -0.13 | 41493.0 | 1.18  | —       | —     | 48231.1 | 0.27  |
| M2K1_ARATH   | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| MP3K2_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| NAC52_ARATH  | NF      | —     | NF      | —     | 52816.0 | -0.10 | 52054.0 | —     | 35797.0 | 0.78  | 33176.0 | *2.00 |
| —            | —       | —     | —       | —     | —       | —     | 559.0   | —     | 46290.0 | 0.97  | 80639.0 | —     |
| NAC40_ARATH  | 37788.0 | —     | NF      | —     | 23175.0 | -0.58 | 14773.0 | —     | 43811.0 | -1.12 | 86643.0 | 1.00  |
| —            | —       | —     | —       | —     | —       | —     | 43581.0 | 0.82  | —       | —     | —       | —     |
| NAC48_ORYSJ  | 56568.0 | 0.42  | 32595.0 | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| NAC53_ARATH  | 27987.0 | -1.47 | 53278.0 | 0.20  | 43602.0 | —     | 25392.0 | —     | 24549.0 | -0.88 | 67740.0 | —     |
| —            | —       | —     | —       | —     | 75638.0 | -1.12 | 46806.0 | 0.06  | 47866.0 | -0.03 | 70886.0 | -0.14 |
| NAC62_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| NAC56_ARATH  | 28107.0 | —     | 48011.0 | *2.90 | 18762.0 | —     | 29455.0 | —     | 15242.0 | —     | 56652.0 | —     |
| —            | 51001.0 | 0.00  | —       | —     | 48643.0 | —     | 49666.0 | —     | 50239.0 | —     | —       | —     |

|              |         |       |         |        |         |        |         |      |         |       |         |       |
|--------------|---------|-------|---------|--------|---------|--------|---------|------|---------|-------|---------|-------|
| —            | —       | —     | —       | —      | 57201.0 | —      | —       | —    | —       | —     | —       | —     |
| NDUS1_ARATH  | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| AKRC9_ARATH  | 10817.0 | —     | 29343.0 | -0.22  | 2082.0  | —      | 23710.0 | —    | 44077.0 | —     | 37016.0 | —     |
| —            | 44870.0 | 0.68  | 39628.0 | —      | 46868.0 | —      | 52521.0 | —    | 28509.0 | 0.71  | 85265.0 | —     |
| —            | —       | —     | —       | —      | 63167.0 | -0.11  | 37228.0 | —    | —       | —     | 87849.0 | —     |
| —            | —       | —     | —       | —      | —       | —      | —       | —    | —       | —     | 69958.0 | 1.53  |
| NPC4_ARATH   | NF      | —     | NF      | —      | 73777.0 | —      | 35738.0 | 1.57 | 14807.0 | —     | 66947.0 | 0.00  |
| —            | —       | —     | —       | —      | 63382.0 | —      | 49197.0 | —    | 16543.0 | —     | 87126.0 | —     |
| Q5U9M2_ORYSJ | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| Q0J265_ORYSJ | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| PER33_ARATH  | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| PER34_ARATH  | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| PGL1A_ARATH  | 41556.0 | —     | 34846.0 | *-3.47 | 14163.0 | 0.72   | 54107.0 | —    | 37867.0 | 0.64  | 88780.0 | —     |
| —            | 45791.0 | 0.46  | 47604.0 | —      | —       | —      | —       | —    | —       | —     | —       | —     |
| RFS5_ARATH   | 33272.0 | 1.14  | 29161.0 | -1.07  | 76965.0 | *-1.81 | 42554.0 | —    | 31224.0 | 0.25  | 24183.0 | —     |
| ABI5_ARATH   | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| AB1K1_ARATH  | NF      | —     | NF      | —      | 18052.0 | 0.63   | 18851.0 | —    | 21916.0 | 0.59  | 85765.0 | —     |
| DTX43_ARATH  | 38777.0 | -0.51 | 31816.0 | 1.31   | 74815.0 | —      | 53199.0 | —    | NF      | —     | 35781.0 | 0.36  |
| ERD15_ARATH  | 51610.0 | —     | 56471.0 | 0.83   | 49900.0 | —      | 11294.0 | —    | 12794.0 | —     | NF      | —     |
| —            | 45143.0 | *2.03 | 23659.0 | —      | 53720.0 | —      | 21884.0 | —    | —       | —     | —       | —     |
| —            | —       | —     | —       | —      | 54119.0 | —      | 33027.0 | —    | —       | —     | —       | —     |
| MET1_ARATH   | 11490.0 | —     | 35467.0 | —      | 53131.0 | —      | 3381.0  | —    | 42413.0 | —     | 52721.0 | —     |
| —            | 4644.0  | —     | 47231.0 | —      | 67555.0 | —      | 1241.0  | —    | 8864.0  | —     | 64336.0 | —     |
| —            | 59675.0 | 1.68  | 62256.0 | —      | 77088.0 | —      | —       | —    | —       | —     | —       | —     |
| —            | —       | —     | 62817.0 | —      | —       | —      | —       | —    | —       | —     | —       | —     |
| Q7XJ04_ORYSJ | NF      | —     | NF      | —      | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| PPOX1_ARATH  | NF      | —     | NF      | —      | 3876.0  | —      | NF      | —    | NF      | —     | 61957.0 | —     |
| KPYC_SOLTU   | 21152.0 | —     | 46855.0 | 0.17   | 15938.0 | 0.73   | 20924.0 | —    | 20212.0 | —     | 34022.0 | —     |
| —            | 59308.0 | 0.50  | 13113.0 | —      | 54391.0 | 0.03   | 51040.0 | —    | 49462.0 | 0.29  | 41166.0 | —     |
| —            | 33594.0 | -0.04 | 54144.0 | -0.41  | 44621.0 | 0.59   | 36848.0 | —    | 36745.0 | 0.34  | 61364.0 | -0.25 |
| —            | —       | —     | 69874.0 | —      | —       | —      | 53550.0 | —    | 26476.0 | 0.14  | 50495.0 | 0.85  |
| SCAB1_ARATH  | 52232.0 | -0.37 | 64162.0 | -1.26  | NF      | —      | NF      | —    | NF      | —     | NF      | —     |
| SDHA1_ARATH  | 5306.0  | —     | 29476.0 | —      | 2363.0  | —      | 11223.0 | —    | 44543.0 | —     | 40732.0 | 0.43  |
| —            | 20705.0 | —     | 50151.0 | 0.07   | 28329.0 | -0.08  | 31139.0 | —    | 32086.0 | -0.44 | 73750.0 | —     |
| —            | 27994.0 | —     | 54037.0 | —      | 60915.0 | —      | 39401.0 | —    | 50388.0 | 0.48  | 76700.0 | 0.79  |
| —            | 32538.0 | -0.46 | 49108.0 | —      | 17720.0 | -0.79  | 45717.0 | —    | —       | —     | 82501.0 | 0.42  |
| —            | —       | —     | —       | —      | 71899.0 | 0.18   | 34920.0 | —    | —       | —     | 41179.0 | —     |
| SUC1_ARATH   | NF      | —     | 53.0    | —      | 63389.0 | —      | NF      | —    | 14608.0 | —     | NF      | —     |
| STP2_ARATH   | NF      | —     | NF      | —      | 23059.0 | —      | NF      | —    | 16902.0 | —     | 8031.0  | —     |

|             |         |       |         |       |         |       |         |       |         |       |         |        |
|-------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--------|
| MYB96_ARATH | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —      |
| PUB13_ARATH | 48555.0 | —     | 62220.0 | —     | 37304.1 | 0.21  | 44478.1 | —     | 35577.0 | 0.51  | 37121.1 | 0.97   |
| —           | 50250.0 | 0.22  | 33008.0 | -0.73 | 59676.0 | -0.04 | 39001.0 | 0.90  | 53555.0 | -0.37 | 68441.0 | -0.13  |
| 14333_ORYSJ | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —      |
| PSD8A_ARATH | 22463.0 | —     | 66259.0 | —     | 12249.0 | —     | 47360.0 | —     | 18856.0 | —     | 64380.0 | 1.36   |
| —           | 8305.0  | —     | —       | —     | 51036.0 | -1.24 | 51649.0 | 0.62  | 31880.0 | 0.32  | 66290.0 | —      |
| —           | 27506.0 | —     | —       | —     | 66230.0 | —     | 49806.0 | —     | 8982.0  | —     | 74369.0 | —      |
| —           | —       | —     | —       | —     | 26428.0 | -0.02 | 18766.0 | —     | 23097.0 | -0.04 | 73950.0 | 0.38   |
| —           | —       | —     | —       | —     | 28677.0 | 1.40  | 44515.0 | —     | 38364.0 | 0.56  | 75718.0 | -0.08  |
| KCS12_ARATH | 59862.0 | —     | NF      | —     | 35325.0 | -0.25 | 31896.0 | —     | 30958.0 | -0.39 | NF      | —      |
| —           | —       | —     | —       | —     | —       | —     | —       | —     | —       | —     | —       | —      |
| NCED3_ARATH | 37429.0 | —     | 54725.0 | —     | 78234.0 | 2.97  | 48884.0 | *3.56 | 40341.0 | -1.47 | 79148.0 | 0.66   |
| ABAH3_ARATH | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —      |
| PYL4_ARATH  | NF      | —     | 64731.0 | —     | 36918.0 | —     | 15804.0 | —     | 14619.0 | —     | 40971.0 | —      |
| —           | —       | —     | —       | —     | 38747.0 | —     | 21971.0 | —     | 19339.0 | 0.63  | 42598.0 | —      |
| —           | —       | —     | —       | —     | 43509.0 | —     | 24931.0 | -1.22 | 38723.0 | 0.39  | 80026.0 | —      |
| —           | —       | —     | —       | —     | 46098.0 | —     | 26662.0 | —     | —       | —     | —       | —      |
| —           | —       | —     | —       | —     | 51985.0 | —     | —       | —     | —       | —     | —       | —      |
| PYL5_ARATH  | NF      | —     | NF      | —     | 32554.0 | —     | 7019.0  | —     | 16691.0 | —     | 62278.0 | —      |
| PYL8_ARATH  | 15351.0 | —     | 65443.0 | 0.26  | 52581.0 | -1.07 | 36519.0 | —     | 21321.0 | -0.79 | 56716.0 | —      |
| —           | 51713.0 | —     | 30869.0 | —     | 56051.0 | —     | 40593.0 | —     | 33428.0 | —     | 65307.0 | —      |
| —           | 9070.0  | —     | 31615.0 | —     | 56561.0 | —     | 53179.0 | —     | 46297.0 | —     | 68408.0 | *-2.53 |
| —           | 22672.0 | 0.33  | —       | —     | 69954.0 | —     | 55647.0 | —     | 12507.0 | —     | 74099.0 | —      |
| —           | 60472.0 | 1.19  | —       | —     | 79678.0 | —     | 49611.0 | —     | 43435.0 | 0.29  | 77705.0 | —      |
| —           | —       | —     | —       | —     | 9053.0  | —     | 28605.0 | 1.26  | 26244.0 | -0.06 | 86165.0 | —      |
| —           | —       | —     | —       | —     | 51531.0 | -0.38 | 54711.0 | —     | 32619.0 | 0.71  | 48696.0 | -0.88  |
| —           | —       | —     | —       | —     | 56894.0 | 0.45  | 680.0   | —     | —       | —     | 61932.0 | -1.01  |
| —           | —       | —     | —       | —     | 61592.0 | —     | —       | —     | —       | —     | 43429.0 | —      |
| AI5L5_ARATH | 1997.0  | —     | 20640.0 | 0.72  | 14599.0 | —     | 15949.0 | —     | 16488.0 | —     | 58616.0 | 0.18   |
| —           | 31329.0 | 0.40  | 27826.0 | —     | 17403.0 | -0.21 | 21743.0 | -0.28 | 32826.0 | —     | 60111.0 | —      |
| —           | 32392.0 | —     | 59294.0 | 0.64  | 36195.0 | —     | 38777.0 | —     | 33412.0 | -0.03 | 79315.0 | —      |
| —           | 60308.0 | -1.29 | 63349.0 | —     | 55221.0 | —     | 39414.0 | —     | 52576.0 | -1.79 | 79821.0 | —      |
| —           | —       | —     | —       | —     | 73585.0 | —     | 42416.0 | —     | 35463.0 | —     | 80601.0 | 0.32   |
| —           | —       | —     | —       | —     | 79680.0 | -0.44 | 47950.0 | —     | —       | —     | 85753.0 | —      |
| —           | —       | —     | —       | —     | 14790.0 | 0.80  | 52731.0 | —     | —       | —     | 71374.0 | —      |
| —           | —       | —     | —       | —     | —       | —     | 55548.0 | —     | —       | —     | —       | —      |
| —           | —       | —     | —       | —     | —       | —     | 33036.0 | —     | —       | —     | —       | —      |
| AGAL_ORYSJ  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —      |

|              |         |        |         |      |         |       |         |       |         |       |         |       |
|--------------|---------|--------|---------|------|---------|-------|---------|-------|---------|-------|---------|-------|
| Q39958_HELAN | NF      | —      | NF      | —    | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
|              |         |        |         |      |         | *_    |         |       |         |       |         |       |
| PIP21_ARATH  | NF      | —      | NF      | —    | 51261.0 | 3.86  | 21024.0 | —     | 16268.0 | —     | 66614.0 | —     |
| —            | —       | —      | —       | —    | 2192.0  | —     | —       | —     | 38156.0 | —     | 62374.0 | —     |
| —            | —       | —      | —       | —    | 13245.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 22082.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 24320.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 4169.0  | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 17427.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 75869.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 9599.0  | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 57346.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 61247.0 | 1.33  | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | —       | —    | 71024.0 | —     | —       | —     | —       | —     | —       | —     |
| SPE1_ARATH   | NF      | —      | NF      | —    | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| RQL1_ARATH   | 27256.0 | —      | 52877.0 | —    | 1732.0  | —     | 41198.0 | —     | 29034.0 | —     | 81069.0 | —     |
| —            | 26364.0 | —      | 28967.0 | —    | 60935.0 | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | 31648.0 | —    | 79488.0 | —     | —       | —     | —       | —     | —       | —     |
| RQL5_ARATH   | NF      | —      | NF      | —    | 15530.0 | —     | NF      | —     | 37859.0 | —     | 55195.0 | —     |
| —            | —       | —      | —       | —    | 50086.0 | —     | —       | —     | —       | —     | 83738.0 | —     |
| —            | —       | —      | —       | —    | 79234.0 | —     | —       | —     | —       | —     | —       | —     |
| SUV3M_ORYSJ  | 34806.0 | —      | NF      | —    | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| ARFG_ARATH   | NF      | —      | NF      | —    | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| BIG_ARATH    | 20176.0 | —      | 27359.0 | —    | 21102.0 | —     | 19408.0 | —     | 30289.0 | -0.60 | 34102.0 | —     |
| —            | 21773.0 | -0.24  | 28837.0 | 0.63 | 21538.0 | —     | 29644.0 | —     | 40436.0 | -0.01 | 48303.0 | *1.71 |
| —            | 48276.0 | 0.84   | 33816.0 | 0.33 | 75461.0 | -1.19 | 13916.0 | —     | 7679.0  | —     | 53644.0 | *1.91 |
| —            | 57508.0 | —      | 33972.0 | 0.11 | 32151.0 | —     | —       | —     | —       | —     | 28180.0 | —     |
| —            | 57508.1 | —      | 49773.0 | —    | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 59018.0 | —      | 58797.0 | 0.53 | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 40523.0 | *-1.53 | 63926.0 | —    | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 32488.0 | -0.44  | 65540.0 | —    | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | —       | —      | 66590.0 | —    | —       | —     | —       | —     | —       | —     | —       | —     |
| AUX1_ARATH   | 41000.0 | 0.13   | 48388.0 | —    | 22458.0 | -0.44 | 19406.0 | -1.19 | 19013.0 | 1.09  | 49241.0 | —     |
| —            | 56453.0 | -1.08  | 59761.0 | 1.89 | 23034.0 | —     | 24315.0 | —     | 24409.0 | —     | 67389.0 | 0.20  |
| —            | —       | —      | 67537.0 | 1.47 | 42284.0 | —     | 44098.0 | -2.11 | 38423.0 | —     | 73976.0 | —     |
|              |         |        |         |      |         | *_    |         |       |         |       |         |       |
| —            | —       | —      | —       | —    | 59703.0 | 1.69  | 46672.0 | —     | 43511.0 | —     | 81710.0 | —     |
| —            | —       | —      | —       | —    | 60652.0 | -0.42 | 57621.0 | —     | 52709.0 | —     | 91781.0 | -0.19 |
| —            | —       | —      | —       | —    | 51426.0 | —     | 14507.0 | —     | —       | —     | 60027.0 | 0.54  |

|                  |         |        |         |       |         |       |         |       |         |       |         |       |
|------------------|---------|--------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| —                | —       | —      | —       | —     | —       | —     | 12132.0 | —     | —       | —     | —       | —     |
| Q6IVL3_GOSHI     | NF      | —      | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| CDPKN_ARATH      | NF      | —      | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| CB22_ARATH       | NF      | —      | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| CB3_ARATH        | 33647.0 | 0.88   | 29531.0 | —     | 28158.0 | —     | 11689.0 | —     | 21075.0 | —     | 50686.0 | —     |
| CA4_ARATH        | 40546.0 | *-1.89 | 12301.0 | —     | 43886.0 | —     | NF      | —     | NF      | —     | 8266.0  | —     |
| —                | 40113.0 | *-1.70 | 20719.0 | —     | 9244.0  | —     | —       | —     | —       | —     | 42550.0 | —     |
| —                | 28496.0 | —      | —       | —     | 63696.0 | 1.01  | —       | —     | —       | —     | 45962.0 | —     |
| —                | —       | —      | —       | —     | 13901.0 | —     | —       | —     | —       | —     | 47470.0 | —     |
| —                | —       | —      | —       | —     | —       | —     | —       | —     | —       | —     | 60006.0 | 0.53  |
| —                | —       | —      | —       | —     | —       | —     | —       | —     | —       | —     | 88113.0 | 0.04  |
| CSP2_ARATH       | NF      | —      | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| DRE1A_ARATH      | 20891.0 | —      | 69584.0 | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| DRE1B_ARATH      | 31625.0 | —      | 31046.0 | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| —                | —       | —      | 39486.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| —                | 3975.0  | —      | 46882.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| —                | —       | —      | 46882.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| DRE1C_ARATH      | NF      | —      | NF      | —     | 49962.0 | —     | 2184.0  | —     | 26626.0 | —     | 35024.0 | —     |
| —                | —       | —      | —       | —     | —       | —     | 4186.0  | —     | 40833.0 | -1.07 | 48587.0 | 1.09  |
| DRE2A_ARATH      | NF      | —      | 32555.0 | —     | 57685.0 | —     | 37216.0 | —     | 53037.0 | —     | 65485.0 | —     |
| —                | —       | —      | 48161.0 | —     | 68844.0 | —     | 1348.0  | —     | 40862.0 | *2.21 | 51543.0 | —     |
| —                | —       | —      | —       | —     | 36498.0 | —     | 2488.0  | —     | 53836.0 | *1.99 | 90226.0 | -0.41 |
| COR47_ARATH      | 42834.0 | *2.10  | 27118.0 | 0.87  | 3433.0  | —     | NF      | —     | 45038.0 | —     | 49053.0 | —     |
| —                | —       | —      | 60204.0 | —     | NF      | —     | —       | —     | —       | —     | —       | —     |
| RZF1_ARATH       | 27763.1 | —      | 35403.0 | —     | 19813.0 | —     | NF      | —     | NF      | —     | NF      | —     |
| SDIR1_ARATH      | 56824.0 | *-1.96 | 35045.0 | -0.27 | 20889.0 | —     | 55882.0 | —     | 30086.0 | —     | 43117.0 | —     |
| —                | 20382.0 | —      | 44788.0 | 0.39  | 60311.0 | —     | 1710.0  | —     | 33144.0 | —     | 65865.0 | —     |
| —                | 43020.0 | -0.84  | 48693.0 | —     | 66070.0 | —     | 35587.0 | —     | 10214.0 | —     | 31466.0 | —     |
| —                | —       | —      | —       | —     | 18538.0 | —     | 29054.0 | —     | —       | —     | 29667.0 | —     |
| A0A1S2Z179_CICAR | NF      | —      | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| SINA3_ARATH      | 51265.0 | -0.26  | 26018.0 | —     | 33582.0 | 0.41  | 42684.0 | -0.52 | 43359.0 | 0.19  | 87037.0 | -0.73 |
| —                | 32570.0 | -0.01  | 34484.0 | —     | 18831.0 | -0.58 | 46118.0 | 0.69  | 43690.0 | -0.17 | 77433.0 | -0.84 |
| —                | 47711.0 | -1.47  | 53934.0 | 0.34  | —       | —     | —       | —     | —       | —     | —       | —     |
| —                | —       | —      | 60529.0 | 0.55  | —       | —     | —       | —     | —       | —     | —       | —     |
| ELP1_ARATH       | 39468.0 | -0.21  | 29575.0 | 0.43  | 51648.0 | —     | 52021.0 | —     | 20592.0 | —     | 44084.0 | —     |
| —                | 9730.0  | —      | —       | —     | 42238.1 | 0.17  | 52021.2 | -0.40 | 43395.0 | -0.13 | 82243.0 | -1.38 |
| —                | 35892.0 | -0.10  | —       | —     | 42238.0 | —     | 52021.1 | —     | —       | —     | 38666.0 | —     |
| —                | 62044.0 | -0.36  | —       | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| ABI4_ARATH       | NF      | —      | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |

|              |         |       |         |       |         |       |         |       |         |       |         |       |
|--------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| WIN1_ARATH   | NF      | —     | 45954.0 | —     | 28899.0 | —     | 1632.0  | —     | 50935.0 | —     | NF      | —     |
| —            | —       | —     | —       | —     | 3476.0  | —     | 19788.0 | —     | 25222.0 | —     | —       | —     |
| ALFC7_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| GOLS3_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| GSTFA_ARATH  | NF      | —     | 41497.0 | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| GSTUJ_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| HPR1_ARATH   | 17372.0 | —     | 36501.0 | —     | 73490.0 | —     | 364.0   | —     | 9949.0  | —     | 86714.0 | —     |
| —            | 60671.0 | —     | 57114.0 | —     | 56851.0 | —     | —       | —     | 35920.0 | —     | —       | —     |
| GLPK_ARATH   | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | 48301.0 | —     |
| GLYR1_ARATH  | 35836.0 | —     | 37301.0 | —     | 63668.0 | —     | 57557.0 | —     | 39568.0 | -0.67 | 81750.0 | —     |
| —            | —       | —     | —       | —     | 1141.0  | —     | 31059.0 | —     | 8548.0  | —     | 56776.0 | —     |
| —            | —       | —     | —       | —     | 13446.0 | —     | —       | —     | 13094.0 | —     | 5765.0  | —     |
| —            | —       | —     | —       | —     | 46780.0 | 0.01  | —       | —     | —       | —     | 64278.0 | —     |
| —            | —       | —     | —       | —     | 52601.0 | —     | —       | —     | —       | —     | —       | —     |
|              |         |       |         |       |         | *_    |         |       |         |       |         |       |
| SLAC1_ARATH  | 7432.0  | —     | NF      | —     | 63580.0 | 2.65  | 25632.0 | —     | 35818.0 | 0.87  | NF      | —     |
| AHK1_ARATH   | 28013.0 | —     | 41916.0 | —     | 24650.0 | —     | 18000.0 | —     | 46685.0 | —     | 77788.0 | —     |
| —            | 63284.0 | -0.20 | 4422.0  | —     | 49294.1 | —     | 40232.0 | —     | 19410.0 | 0.04  | 81623.0 | —     |
| —            | —       | —     | —       | —     | 24650.1 | -0.98 | —       | —     | —       | —     | 6718.0  | —     |
| AHK3_ARATH   | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| AHK4_ARATH   | 37288.0 | 1.64  | 19175.0 | —     | 59014.0 | 1.17  | 32554.0 | -1.41 | 23810.0 | -0.56 | 74833.0 | -0.59 |
| —            | 40197.0 | —     | 41092.0 | 1.63  | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 56831.0 | 1.46  | 44187.0 | 1.74  | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 39205.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| AHP5_ARATH   | 33135.0 | 0.44  | 44232.0 | 0.31  | 3642.0  | —     | NF      | —     | 16727.0 | —     | 42384.0 | —     |
| —            | 30617.0 | 0.06  | 67132.0 | -0.79 | —       | —     | —       | —     | —       | —     | —       | —     |
| YUC6_ARATH   | NF      | —     | NF      | —     | 45456.0 | —     | 41005.0 | —     | 50129.0 | —     | 22995.0 | —     |
| —            | —       | —     | —       | —     | 8311.0  | —     | —       | —     | 9948.0  | —     | —       | —     |
| —            | —       | —     | —       | —     | 54283.0 | —     | —       | —     | —       | —     | —       | —     |
| B6UH99_MAIZE | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| Q9M0X3_ARATH | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| F4JQF1_ARATH | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| LEA46_ARATH  | 6646.0  | —     | 11690.0 | —     | 11294.0 | —     | NF      | —     | NF      | —     | 78366.0 | —     |
| —            | 6725.0  | —     | 52317.0 | 1.09  | —       | —     | —       | —     | —       | —     | —       | —     |
| —            | 32615.0 | —     | 10766.0 | —     | —       | —     | —       | —     | —       | —     | —       | —     |
| LEA41_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     | NF      | —     |
| LACS2_ARATH  | 37578.0 | 0.74  | 44475.0 | —     | 74518.0 | —     | 9880.0  | —     | 23105.0 | —     | NF      | —     |
| —            | —       | —     | —       | —     | 63173.0 | —     | —       | —     | —       | —     | —       | —     |
| MED25_ARATH  | 40951.0 | -1.21 | 62487.0 | 0.49  | 40206.0 | —     | 37187.0 | —     | 38565.0 | —     | 29020.0 | —     |

|              |         |       |         |        |         |       |         |      |         |       |         |       |
|--------------|---------|-------|---------|--------|---------|-------|---------|------|---------|-------|---------|-------|
| VDAC3_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PUMP1_ARATH  | 62786.0 | —     | 48804.0 | —      | 33421.0 | —     | 22483.0 | —    | 13619.0 | —     | 57109.0 | —     |
| —            | 8716.0  | —     | 55602.0 | —      | 54638.0 | —     | 36943.0 | —    | 30795.0 | 0.35  | 46907.0 | —     |
| —            | 43319.0 | 0.28  | 65832.0 | -0.04  | 27543.0 | -0.13 | 41493.0 | 1.18 | —       | —     | 48231.1 | 0.27  |
| M2K1_ARATH   | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| MP3K2_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| NAC52_ARATH  | NF      | —     | NF      | —      | 52816.0 | -0.10 | 52054.0 | —    | 35797.0 | 0.78  | 33176.0 | *2.00 |
| —            | —       | —     | —       | —      | —       | —     | 559.0   | —    | 46290.0 | 0.97  | 80639.0 | —     |
| NAC40_ARATH  | 37788.0 | —     | NF      | —      | 23175.0 | -0.58 | 14773.0 | —    | 43811.0 | -1.12 | 86643.0 | 1.00  |
| —            | —       | —     | —       | —      | —       | —     | 43581.0 | 0.82 | —       | —     | —       | —     |
| NAC48_ORYSJ  | 56568.0 | 0.42  | 32595.0 | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| NAC53_ARATH  | 27987.0 | -1.47 | 53278.0 | 0.20   | 43602.0 | —     | 25392.0 | —    | 24549.0 | -0.88 | 67740.0 | —     |
| —            | —       | —     | —       | —      | 75638.0 | -1.12 | 46806.0 | 0.06 | 47866.0 | -0.03 | 70886.0 | -0.14 |
| NAC62_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| NAC56_ARATH  | 28107.0 | —     | 48011.0 | *2.90  | 18762.0 | —     | 29455.0 | —    | 15242.0 | —     | 56652.0 | —     |
| —            | 51001.0 | 0.00  | —       | —      | 48643.0 | —     | 49666.0 | —    | 50239.0 | —     | —       | —     |
| —            | —       | —     | —       | —      | 57201.0 | —     | —       | —    | —       | —     | —       | —     |
| NDUS1_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| AKRC9_ARATH  | 10817.0 | —     | 29343.0 | -0.22  | 2082.0  | —     | 23710.0 | —    | 44077.0 | —     | 37016.0 | —     |
| —            | 44870.0 | 0.68  | 39628.0 | —      | 46868.0 | —     | 52521.0 | —    | 28509.0 | 0.71  | 85265.0 | —     |
| —            | —       | —     | —       | —      | 63167.0 | -0.11 | 37228.0 | —    | —       | —     | 87849.0 | —     |
| —            | —       | —     | —       | —      | —       | —     | —       | —    | —       | —     | 69958.0 | 1.53  |
| NPC4_ARATH   | NF      | —     | NF      | —      | 73777.0 | —     | 35738.0 | 1.57 | 14807.0 | —     | 66947.0 | 0.00  |
| —            | —       | —     | —       | —      | 63382.0 | —     | 49197.0 | —    | 16543.0 | —     | 87126.0 | —     |
| Q5U9M2_ORYSJ | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| Q0J265_ORYSJ | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PER33_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PER34_ARATH  | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PGL1A_ARATH  | 41556.0 | —     | 34846.0 | *-3.47 | 14163.0 | 0.72  | 54107.0 | —    | 37867.0 | 0.64  | 88780.0 | —     |
| —            | 45791.0 | 0.46  | 47604.0 | —      | —       | —     | —       | —    | —       | —     | —       | —     |
|              |         |       |         |        |         | *_    |         |      |         |       |         |       |
| RFS5_ARATH   | 33272.0 | 1.14  | 29161.0 | -1.07  | 76965.0 | 1.81  | 42554.0 | —    | 31224.0 | 0.25  | 24183.0 | —     |
| ABI5_ARATH   | NF      | —     | NF      | —      | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| ABI1K1_ARATH | NF      | —     | NF      | —      | 18052.0 | 0.63  | 18851.0 | —    | 21916.0 | 0.59  | 85765.0 | —     |
| DTX43_ARATH  | 38777.0 | -0.51 | 31816.0 | 1.31   | 74815.0 | —     | 53199.0 | —    | NF      | —     | 35781.0 | 0.36  |
| ERD15_ARATH  | 51610.0 | —     | 56471.0 | 0.83   | 49900.0 | —     | 11294.0 | —    | 12794.0 | —     | NF      | —     |
| —            | 45143.0 | *2.03 | 23659.0 | —      | 53720.0 | —     | 21884.0 | —    | —       | —     | —       | —     |
| —            | —       | —     | —       | —      | 54119.0 | —     | 33027.0 | —    | —       | —     | —       | —     |
| MET1_ARATH   | 11490.0 | —     | 35467.0 | —      | 53131.0 | —     | 3381.0  | —    | 42413.0 | —     | 52721.0 | —     |

|              |         |       |         |       |         |       |         |      |         |       |         |       |
|--------------|---------|-------|---------|-------|---------|-------|---------|------|---------|-------|---------|-------|
| —            | 4644.0  | —     | 47231.0 | —     | 67555.0 | —     | 1241.0  | —    | 8864.0  | —     | 64336.0 | —     |
| —            | 59675.0 | 1.68  | 62256.0 | —     | 77088.0 | —     | —       | —    | —       | —     | —       | —     |
| —            | —       | —     | 62817.0 | —     | —       | —     | —       | —    | —       | —     | —       | —     |
| Q7XJ04_ORYSJ | NF      | —     | NF      | —     | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PPOX1_ARATH  | NF      | —     | NF      | —     | 3876.0  | —     | NF      | —    | NF      | —     | 61957.0 | —     |
| KPYC_SOLTU   | 21152.0 | —     | 46855.0 | 0.17  | 15938.0 | 0.73  | 20924.0 | —    | 20212.0 | —     | 34022.0 | —     |
| —            | 59308.0 | 0.50  | 13113.0 | —     | 54391.0 | 0.03  | 51040.0 | —    | 49462.0 | 0.29  | 41166.0 | —     |
| —            | 33594.0 | -0.04 | 54144.0 | -0.41 | 44621.0 | 0.59  | 36848.0 | —    | 36745.0 | 0.34  | 61364.0 | -0.25 |
| —            | —       | —     | 69874.0 | —     | —       | —     | 53550.0 | —    | 26476.0 | 0.14  | 50495.0 | 0.85  |
| SCAB1_ARATH  | 52232.0 | -0.37 | 64162.0 | -1.26 | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| SDHA1_ARATH  | 5306.0  | —     | 29476.0 | —     | 2363.0  | —     | 11223.0 | —    | 44543.0 | —     | 40732.0 | 0.43  |
| —            | 20705.0 | —     | 50151.0 | 0.07  | 28329.0 | -0.08 | 31139.0 | —    | 32086.0 | -0.44 | 73750.0 | —     |
| —            | 27994.0 | —     | 54037.0 | —     | 60915.0 | —     | 39401.0 | —    | 50388.0 | 0.48  | 76700.0 | 0.79  |
| —            | 32538.0 | -0.46 | 49108.0 | —     | 17720.0 | -0.79 | 45717.0 | —    | —       | —     | 82501.0 | 0.42  |
| —            | —       | —     | —       | —     | 71899.0 | 0.18  | 34920.0 | —    | —       | —     | 41179.0 | —     |
| SUC1_ARATH   | NF      | —     | 53.0    | —     | 63389.0 | —     | NF      | —    | 14608.0 | —     | NF      | —     |
| STP2_ARATH   | NF      | —     | NF      | —     | 23059.0 | —     | NF      | —    | 16902.0 | —     | 8031.0  | —     |
| MYB96_ARATH  | NF      | —     | NF      | —     | NF      | —     | NF      | —    | NF      | —     | NF      | —     |
| PUB13_ARATH  | 48555.0 | —     | 62220.0 | —     | 37304.1 | 0.21  | 44478.1 | —    | 35577.0 | 0.51  | 37121.1 | 0.97  |
| —            | 50250.0 | 0.22  | 33008.0 | -0.73 | 59676.0 | -0.04 | 39001.0 | 0.90 | 53555.0 | -0.37 | 68441.0 | -0.13 |



