Supplemental Table 1. A panel of 107 barley accessions used for association mapping

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| No | Accession | Country of origin |
| 1 | LW 95Z059-16 | Netherlands |
| 2 | Igri | Germany |
| 3 | LP 813.6.98 | Netherlands |
| 4 | Babylone | Germany |
| 5 | Orza - 96 | Turkey |
| 6 | Candesse | Germany |
| 7 | Beysehir | Turkey |
| 8 | Bombay | Germany |
| 9 | Catinka | Germany |
| 10 | Andrea | Germany |
| 11 | Carat | UK |
| 12 | Catskill | USA |
| 13 | Bilgi | Turkey |
| 14 | Kyoto | Germany |
| 15 | Alpaca | Germany |
| 16 | Steptoe | USA |
| 17 | Millie | Germany |
| 18 | GW 2613 | Germany |
| 19 | GW 2569 | Germany |
| 20 | Diamond | UK |
| 21 | CIho 11650 | USA |
| 22 | Alissa | Germany |
| 23 | Sonate | Germany |
| 24 | Miller (Clho 13444) | USA |
| 25 | Elbany | Germany |
| 26 | Theresa | Germany |
| 27 | BYDV 6 | Germany |
| 28 | Mascara | France |
| 29 | Laurena | Germany |
| 30 | Passion | Germany |
| 31 | Morex | USA |
| 32 | Erginel | Turkey |
| 33 | Vanessa | Germany |
| 34 | Banteng | Germany |
| 35 | Estrél | France |
| 36 | Madou | Germany |
| 37 | Existenz | Germany |
| 38 | Monroe (Clho 15691) | USA |
| 39 | Kamoto | Germany |
| 40 | IG\_132606 | Azerbaijan |
| 41 | Mammut | Germany |
| 42 | Labea | Germany |
| 43 | Alraune | Germany |
| 44 | Tokak 157/37 | Turkey |
| 45 | IG\_39915 | Syria |
| 46 | Uschi | Germany |
| 47 | Petra | Germany |
| 48 | IG\_124017 | Uzbekistan |
| 49 | Tambar 500 (PI 561204) | USA |
| 50 | Cabrio | Germany |
| 51 | Jessica | Germany |
| 52 | Angela | Germany |
| 53 | IG\_40107 | Uzbekistan |
| 54 | Ermo | Germany |
| 55 | Malta | Germany |
| 56 | Magie | Germany |
| 57 | Esterel | Germany |
| 58 | Gilberta | Germany |
| 59 | HOR 443 | Turkey |
| 60 | Rocca | Germany |
| 61 | IG\_38660 | Afghanistan |
| 62 | Mombasa | Germany |
| 63 | AC Alberte | Germany |
| 64 | CIho 11878 | USA |
| 65 | LW 96W139-01 | Netherlands |
| 66 | GW 2611 | Germany |
| 67 | Elektra | Germany |
| 68 | Affair | Germany |
| 69 | Gerbel | Germany |
| 70 | IG\_39885 | Cyprus |
| 71 | Traminer | Germany |
| 72 | Dura | Germany |
| 73 | Fabian | Iraq |
| 74 | Sonja | Germany |
| 75 | Edda | Germany |
| 76 | SW 16199 | Germany |
| 77 | Grete | Germany |
| 78 | Ogra | Germany |
| 79 | Reni | Germany |
| 80 | Nebelia | Germany |
| 81 | Naomie | Germany |
| 82 | Angora | Germany |
| 83 | Finita | Germany |
| 84 | Kaskade | Germany |
| 85 | BR 4645 a | Germany |
| 86 | Marinka | Germany |
| 87 | Artist | Germany |
| 88 | Lenta | Germany |
| 89 | Goldmine | Germany |
| 90 | Vertikale | Germany |
| 91 | ID-403 | Syria |
| 92 | IG\_38658 | Iraq |
| 93 | Duet | Germany |
| 94 | Tessy | Germany |
| 95 | IG\_40094 | Syria |
| 96 | Cebeco 03248 | Germany |
| 97 | NSL 01-6132 | Germany |
| 98 | Vertikale | Germany |
| 99 | IG\_110751 | Syria |
| 100 | Cleopatra | Germany |
| 101 | Corona | Germany |
| 102 | Brunhild | Germany |
| 103 | IG\_39918 | Syria |
| 104 | IG\_119451 | Syria |
| 105 | BYDV 15 | Germany |
| 106 | CM 4113 | Germany |
| 107 | Tapir | Turkey |