**Supplementary Table 8** Genes from the annotated super-scaffold for developing molecular markers

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| Code | Temporary name | Accession number | Annotation | Polymorphism |
| 1 | *TaHY5* | Traes\_6AS\_AFF47E71C | Transcription factor HY5 | No |
| 2 | *TaGRAS* | Traes\_6AL\_4084532FC1 | GRAS domain family | No |
| 3 | *TaGA3* | Traes\_6AL\_751C1A39D | Gibberellin 3-beta-dioxygenase | Yes |
| 4 | *TaAuxin* | Traes\_6AS\_10D92215D.2 | Auxin response factor 6 | No |
| 5 | *TaFAR* | Traes\_6AL\_1DC1EF368.2  | Protein FAR-red elongated hypocotyl 3 | Yes |
| 6 | *TaCytokinin8* | Traes\_6AS\_4B78E3665.1 | Cytokinin oxidase/dehydrogenase 8 | No |
| 7 | *TaAP2* | Traes\_6AL\_EE7541F47.1 | AP2-like ethylene-responsive transcription factor BBM2 | Yes |
| 8 | *TaSBP* | Traes\_6AS\_32A35158A.1 | Squamosa-Promoter binding protein  | No |
| 9 | *TaTPA* | Traes\_6AS\_E8AEEB7F7.1  | Cell division protein | No |
| 10 | *TaEF1G* | Traes\_6AS\_91194988A.2 | Elongation factor 1-gamma 2  | No |
| 11 | *TaMadx* | Traes\_6AS\_9AA76345D.1 | MADS-box transcription factor 16 | No |
| 12 | *TaCyclin* | Traes\_6AL\_54C680E88.1 | Cyclin-dependent kinase G-1  | No |
| 13 | *TaGUB* | Traes\_6AL\_FB41DAA2A.1 | Wall-associated receptor kinase 5 | No |
| 14 | *TaPTZ* | Traes\_6AS\_658FD4BB5.1 | cyclin-dependent protein kinase | No |
| 15 | *TaCytokinin3* | Traes\_6AS\_A88CB01FD.1 | Cytokinin-O-glucosyltransferase 3 | No |
| 16 | *TaSTK* | Traes\_6AS\_E690A27CA.1 | Serine/threonine-protein kinase fray2 | No |
| 17 | *TaGTE4* | Traes\_6AS\_5C6CBFDEF.2  | Transcription factor GTE4 | No |
| 18 | *TaElongation* | Traes\_6AS\_91194988A.2 | Elongation factor 1-gamma 2 | No |
| 19 | *TaWIN1* | Traes\_6AS\_8E7166D79.1 | Ethylene-responsive transcription factor WIN1 | No |
| 20 | *TaFtsh* | Traes\_6AS\_7ACD8E491.1 | Cell division protein | No |