**Supplementary Table 6. *BvBBX19* haplotypes of all plants from the *Beta* panel.** The coding region was sequenced.The position of the SNPs is given relative to the translation start site according to the regarding exons. For each accession, PCR products of 10 plants were pooled and sequenced for haplotype analysis. In case of sequence heterogeneity, all single plants were sequenced and haplotypes were assembled which could result in more than one haplotypes per accession.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Exon** | **2** | **4** | | |  |
| Seed code | 69 | 45 | 59 | 231 | Haplotypes in 10 plants / accession |
|
|
| 001684 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 090023 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 091645 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 130333 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 100043 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 930176 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 112823 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 080339 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 100539 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 092312 | **A** | **G** | **C** | **T** | *BvBBX19a* |
| 112787 | **A** | **G** | **C** | **Y** | *BvBBX19a, BvBBX19b* |
| 930181 | **G** | **A** | **C** | **T** | *BvBBX19e* |
| 930034 | **G** | **A** | **C** | **T** | *BvBBX19e* |
| 080384 | **G** | **A** | **C** | **T** | *BvBBX19e* |
| 080287 | **G** | **A** | **C** | **C** | *BvBBX19d* |
| 080538 | **G** | **A** | **C** | **C** | *BvBBX19d* |
| 080461 | **G** | **A** | **C** | **C** | *BvBBX19d* |
| 080281 | **G** | **A** | **C** | **C** | *BvBBX19d* |
| 092459 | **G** | **A** | **T** | **C** | *BvBBX19f* |
| 080468 | **G** | **A** | **T** | **C** | *BvBBX19f* |
| 080396 | **G** | **A** | **T** | **C** | *BvBBX19f* |
| 080394 | **G** | **A** | **Y** | **C** | *BvBBX19d, BvBBX19f* |
| 081845 | **G** | **A** | **Y** | **T** | *BvBBX19f, BvBBX19g* |
| 080437 | **G** | **A** | **Y** | **C** | *BvBBX19d, BvBBX19f* |
| 080418 | **G** | **A** | **Y** | **C** | *BvBBX19d, BvBBX19f* |
| 991971 | **G** | **A** | **Y** | **Y** | *BvBBX19d, BvBBX19f, BvBBX19g* |
| 080313 | **G** | **R** | **C** | **Y** | *BvBBX19c, BvBBX19d* |
| 080238 | **G** | **R** | **Y** | **Y** | *BvBBX19c, BvBBX19f, BvBBX19g* |
| 080260 | **R** | **R** | **C** | **Y** | *BvBBX19a, BvBBX19d* |
| non-syn. SNP |  |  | \* |  |  |