## Block B1 NOT germinated LV1 **YO4** LVTR1 YO11 7–10 3–7 4–13 5–3 DPR 1–2 YO4 7–10 YO4 2–7 YO11 4–13 CP2 7–1 WL1 YO4 FR 3 -4–10 3-11 1–2 LVTR1 3-2 LV3 3-7 SQ3 3-5 CP2 1–11 WR 1-5 WV **YO7 DPR** 5 -3–8 6-8 2-9 YO7 7–12 SQ1 2–10 CP3 1–7 CP3 6 -4–3 SQ1 5-7 SQ2 2-7 BH SQ3 1–2 4–12 TM2 7–1 WL2 LVTR1 ΙH 8 -1-4 2-13 4–7 CP3 2–13 SC 3-9 WL2 SQ3 9 -1–6 1–11 DPR SQ3 SQ1 FR 10 -4–1 1–2 4-4 7–8 SQ2 YO7 WV LVTR1 11 5-4 1-13 3-13 5–10 SQ2 3–10 **YO8** WL2 YO4 12 -2–5 4–2 3–10 WVWR WL2 SQ3 13 -6–2 5–5 3–2 6–13 YO11 ΙH LVTR1 CP3 14 6-4 3-4 1-9 5–6 CP2 5-6 YO4 6-7 LV1 1–2 YO7 5–3 15 -DPR 5–12 CC 5–9 LV1 7-8 LV1 16 3–8 LV3 4-7 CP2 3-11 WV 6-8 CC 1–10 17 -CC 6-13 FR 3–2 CP3 6–10 18 -WV 1-6 SQ2 7-8 YO7 6-7 YO8 19 -3–11 YO11 2-1 LV1 6-3 WV TM2 20 7-11 2–8 YO8 5-2 DPR 7–10 LV1 2–5 YO8 21 6-6 SC 7–3 SQ2 1-2 TM2 22 3-3 23 -

ŏ Š

⋖

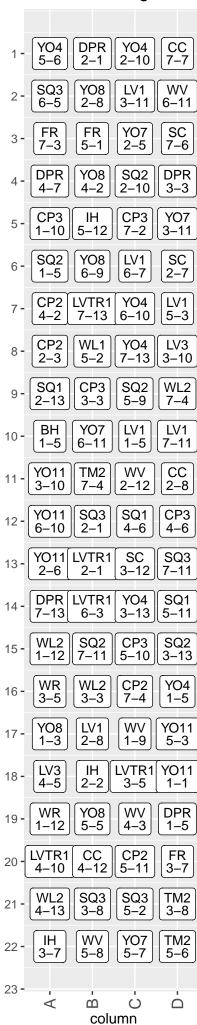
 $\Box$ 

column

 $\circ$ 

## Block B2 NOT germinated 22 -LV1 3-2 SQ3 4-2 CP2 1-3 SQ1 5-1 23 -YO8 7-7 YO4 1–12 SQ2 SQ3 24 -6-9 1–5 DPR 7-3 SQ3 7–1 **DPR** LVTR1 25 -5–6 2-9 CP3 2-6 SQ3 5-9 SC 4-9 WL1 26 5–12 SC 3–3 YO4 6-1 WL2 7–11 YO11 27 -4–6 SC 1-7 CC 6-2 SQ2 3-4 YO11 28 2–13 CP3 7–9 LV1 CP2 DPR 29 3–11 5-10 4–11 WL2 6-7 WVYO11 YO7 30 6–2 5–10 1–7 CP3 3-10 YO11 WL2 YO7 31 -5–7 1–8 7–5 WV 2-3 LV3 WR SQ2 32 -6–1 3–13 2–1 ΙH TM2 FR ΙH 33 4–4 6–13 6–7 § 0 WV **DPR** WR 34 1–2 3-7 1-12 2–9 LVTR1 YO11 ΙH LV3 35 -2–10 2-10 1–3 7–7 CP2 SQ1 LV1 YO4 36 2–10 3–8 4–7 3–4 YO8 3-3 SQ2 4–10 LVTR1 5-4 FR 7–13 37 SQ3 2-8 SQ1 TM2 WV 38 -2–10 7–5 6-9 WV 4–12 CP3 4–13 YO4 7-4 YO7 39 6–1 YO7 4-8 CP3 6-4 LV1 7-1 YO8 40 -1–11 TM2 7–12 FR 4-3 WL2 2-7 LVTR1 7–1 FR 5–11 CC LV1 SQ1 42 1–8 5-1 1–12 YO4 LVTR1 CP3 4-10 4-1 1-1 TM2 43 -6–8 YO8 4–9 YO7 3–2 CP2 6-7 YO8 44 5–12 ⋖ $\Box$ $\circ$ column

# Block C1 NOT germinated



§ 0

## Block C2 NOT germinated 22 -SQ2 CP3 6-13 4-11 WV 7-3 23 -2-12 CC 4–2 CC YO4 24 -1–10 7–13 | 1–10 SQ2 3-2 FR 5–7 SC 5-6 YO8 25 -1-8 WV DPR 1–10 YO4 7–2 YO4 26 -5–11 LVTR1 YO11 LV1 **DPR** 1–1 4-4 4–4 3–9 YO11 LVTR1 2–11 5–2 LV1 CC 28 2–13 5–10 CP3 3-8 YO7 7-3 SC 7–11 WL1 5-9 29 WVYO4 ΙH WL2 30 3–11 3–5 4-8 2–7 FR ΙH SQ3 YO4 31 -3-12 7-8 2–6 3–2 LV3 WL2 SQ3 TM2 32 -6–11 6–4 6–2 6–5 LV1 YO7 CP2 ΙH 33 -6-12 4–5 7–11 6–4 ŏ Š DPR SC TM2 BH 34 · 7–9 5–4 1–5 1–13 ∥LV1 YO7 YO8 LVTR1 35 1–5 7–8 2-7 5–8 FR SQ1 CP2 36 -2-5 3-12 6-6 2–8 YO11 1-6 YO8 5–10 CP3 7-7 SQ3 5-7 37 TM2 5-12 LV3 2–8 WL2 YO7 38 -5-12 2–5 CP2 6-5 SC 3–1 YO8 3-1 YO8 4-7 39 CP3 2-4 YO11 5-8 **DPR** WR 40 7–1 3–11 LVTR1 6-9 FR 1–8 TM2 4-2 SQ3 3–13 41 SQ2 LVTR1 CP3 1-11 3-11 6-2 YO11 42 7–5 SQ3 1-3 SQ2 4-8 SQ1 3-6 CP2 43 4-9 WL2 WV SQ1 44 -4-11 ⋖ $\Box$ $\circ$ column

# Block D1 germinated

buff buff 1 buff buff buff buff buff buff CP2 10-4 LV3 1–6 IH 2–13 WL2 4-11 CC 5–12 CC 4–9 YO7 8-1 YO11 4–10 BH 5–24 FR 3–6 WV FR 5 -4-10 1–12 CC 3–10 BH 4–12 SQ1 5–9 IH 6–12 6 -WL2 1-9 CP2 8-4 WL1 1-20 CP2 2–11 LV3 7–12 BH 6–7 WL1 2-10 BH 7–17 SC 4-8 LVTR1 2-5 BH 1–8 SQ1 7-3 TM2 2-4 IH 7–2 SQ3 4-4 FR 6–6 10 -BH 7–4 LV3 5–10 SQ1 1-9 ഉ 11 -CC 7-4 TM2 5-9 WL1 1–13 DPR 2–11 12 -WL1 1–3 SQ1 7–21 SQ1 7–13 CP2 5-8 13 -YO7 4-7 TM2 1–13 WL1 3-6 WL1 14 -6-4 IH 4–18 WL1 2–14 LVTR1 6–13 WL1 15 -6-20 TM2 5-3 LV3 2–1 CC 2–5 WL1 7–1 16-WL1 7–15 DPR 6-4 BH 5–14 ΙH 17 -7–12 IH 4–10 SC 6-10 WL1 7-25 BH 3-5 18 **-**BH 2–8 SQ2 8–1 SQ2 6-2 BH 5–9 19 -WL2 5-6 WL1 7–11 YO8 3–12 BH 4–2 20 -SQ2 5-3 LV3 6-3 SC 5–10 FR 8–2 21 -22 - $\triangleleft$  $\Box$  $\circ$ 

column

# Block D2 germinated 21 -BH LV3 7–18 7–13 SQ1 4-4 22 -CP2 10-3 SQ3 4–11 SQ2 6-3 YO11 3–12 23 LVTR1 7-6 ΙH ΙH LV3 24 4–11 4-12 6-6 DPR 2-7 CP2 2–1 WL1 FR 25 -2–1 6–10 BH 5–15 WL1 4–11 TM2 1–2 SC 26 -5–11 SQ2 4-6 DPR 4-9 BH 7–5 SC 4–10 CC 2–13 FR 2–9 LV3 8-7 FR 28 -1-6 YO11 7-2 BH ΙH ВН 29 -7–3 4–13 2–9 CP2 5-2 WL1 7-26 ВН BH 30 -4–3 1–10 WL2 1-7 TM2 SQ1 LVTR1 31 -4–11 1–11 6–5 LV3 7–1 WL1 LV3 ΙH 32 2-3 4-19 3–9 § 0 CP3 BH BH 33 -2–11 6–8 12-1 | 5-10 LV3 1-7 SQ1 WL1 WL1 34 1–21 7–12 6–4 CC ВH SC BH 35 -1–11 5-25 6-11 3–6 IH 4–1 YO8 2-2 WL1 2–15 WL1 36 -6-5 SQ1 7-4 WL1 1-4 TM2 6-5 LV3 5–11 37 -YO4 4-5 WL1 4-1 YO7 2–10 SC 2–1 38 CC 4-5 WL1 7–16 WL1 6–21 39 FR 6-5 WR 3-7 TM2 2-1 YO7 7–11 40 -IH 7–13 WL1 7-2 | IH |2–9 WL2 4-12 41 buff buff buff 42 buff buff buff 43 buff buff 44 - $\triangleleft$ $\Box$ $\circ$ column

# Block E1 NOT germinated LV1 5–12 DPR 5-8 **YO7** CC 2–11 3-4 CP3 YO8 4-11 SQ1 5–3 2 -5–1 LV1 3-4 CC 6–8 CP3 WL2 3 -5-13 6-6 CP2 | IH 2–13 | 2–12 CP2 1-7 LVTR1 4 -7–5 WV 3–9 YO4 2-3 SC 1–11 WL2 5 -2-9 DPR 3–13 SQ3 1-7 IH 6–9 YO7 6 -6-3 CC 1–4 SQ2 7–2 YO4 4–12 WR 2–11 SC 3–5 **YO7** YO4 ΙH 8 -3–6 1–1 4–10 WV 7-7 SQ3 7-3 WL2 SQ2 9 -6-9 3–6 YO4 TM2 YO11 LVTR1 10 2–11 6–3 6–10 7–9 WL2 YO8 WV YO8 2–5 7-13 1–13 7–1 YO4 LV3 12 1-4 4-5 6–12 7–6 LV1 7-4 SQ1 2–1 LVTR1 TM2 13 -1–5 4–6 LV3 SQ3 WV SQ2 14 -4–6 1–2 2–3 3–1 DPR 7-6 CP3 1-3 YO8 3-7 YO11 3–2 15 -SQ1 3–10 YO7 7–7 CP2 4–13 SQ2 4–12 16 -CP2 6-9 LVTR1 5-6 SC 4–12 SQ3 5–11 17 -WL1 3-8 CP3 2–9 YO8 6-1 ΙH 18 -5-3 SQ3 2–10 LV1 2–1 YO7 1-9 FR 19 6–11 YO11 LVTR1 YO11 1-10 4-3 5-12 WL2 1-2 20 LV1 4–9 CP3 5-2 WV SQ1 21 -6-4 6-11 CP3 7–11 YO11 TM2 22 4–8 2-9

§ 0

23 -

⋖

 $\Box$ 

column

 $\circ$ 

## Block E2 NOT germinated 22 -YO7 3-6 CP3 7–13 YO8 6-4 23 -3-11 SQ3 1-9 CP2 3-1 LV3 3-5 CP3 24 -6-8 LV3 YO7 LVTR1 WL2 25 -2–11 4-13 7–8 4–8 IH 3–2 LV1 6-1 YO4 WL2 26 -5–1 6–11 SQ2 7-4 YO11 3-5 LVTR1 ΙH 6 - 114–5 LVTR1 2-13 YO4 3-8 TM2 CC 4–8 6–11 CP3 5-4 SQ2 2-5 WL1 DPR 29 3–10 7–8 CP2 SQ2 **YO7** LV1 30 4–11 5–4 3–8 6–5 ΙH SC TM2 YO4 31 -5-5 6–12 1–13 7–8 CC 2–10 DPR SQ3 YO8 32 3–9 5–13 6–1 LVTR1 WR SQ1 LV1 33 2–6 5-8 2-13 7–6 LV1 2–3 SQ3 CP2 YO7 34 7–9 4–8 1–9 SQ3 7–5 SC 7–1 YO11 YO11 35 7–11 4–11 WL2 FR YO4 36 2-11 1–3 6-5 1–4 WR 1-3 WV 2-7 WV 37 -1–4 SQ3 2–12 YO11 YO4 38 5–3 2-5 1–12 CP3 4-1 YO8 CP2 4-13 6-12 FR 2–5 39 DPR 5-10 SQ2 5–1 WV SQ1 40 -6-6 6–13 SC 3-7 LV1 3-6 SQ1 5-5 WV 7–9 FR 4–8 DPR 4-2 SQ1 LVTR1 42 3–12 1–7 YO7 1–11 YO11 6-2 YO8 43 1-5 2-3 WL2 5-5 TM2 3-6 YO8 CP3 44 7-13 1–5 ⋖ $\Box$ $\circ$ column

ŏ Š

# Block F1 germinated

- 1 buff buff buff buff
- 2 buff buff buff buff
- 3 LV1 CP2 BH SQ1 2-8
- $4 \begin{bmatrix} \mathsf{SQ2} \\ 6-4 \end{bmatrix} \begin{bmatrix} \mathsf{SQ3} \\ 3-4 \end{bmatrix} \begin{bmatrix} \mathsf{TM2} \\ 5-7 \end{bmatrix} \begin{bmatrix} \mathsf{LV3} \\ 6-9 \end{bmatrix}$
- 5 WL1 LVTR1 BH 5-26 YO4 1-13
- 6 CP2 WL2 DPR 6-9 LV3 4-9
- $7 \begin{bmatrix} \text{LV3} \\ 1-8 \end{bmatrix} \begin{bmatrix} \text{IH} \\ 4-20 \end{bmatrix} \begin{bmatrix} \text{IH} \\ 1-10 \end{bmatrix} \begin{bmatrix} \text{BH} \\ 7-6 \end{bmatrix}$
- $8 \begin{bmatrix} \mathsf{TM2} \\ 2-2 \end{bmatrix} \begin{bmatrix} \mathsf{SC} \\ 5-13 \end{bmatrix} \begin{bmatrix} \mathsf{WL1} \\ 6-6 \end{bmatrix} \begin{bmatrix} \mathsf{WL1} \\ 2-16 \end{bmatrix}$
- $9 \begin{bmatrix} \mathsf{DPR} \\ 2-5 \end{bmatrix} \begin{bmatrix} \mathsf{YO8} \\ 2-11 \end{bmatrix} \begin{bmatrix} \mathsf{SC} \\ 2-13 \end{bmatrix} \begin{bmatrix} \mathsf{TM2} \\ 5-13 \end{bmatrix}$
- 10 BH WL1 YO7 CP3 2-3
- § 11 FR WL1 WR 1H 4-2
  - $12 \begin{bmatrix} CC \\ 6-3 \end{bmatrix} \begin{bmatrix} TM2 \\ 1-3 \end{bmatrix} \begin{bmatrix} SQ1 \\ 7-5 \end{bmatrix} \begin{bmatrix} FR \\ 4-7 \end{bmatrix}$
  - $13 \begin{bmatrix} SC \\ 6-12 \end{bmatrix} \begin{bmatrix} WL1 \\ 7-27 \end{bmatrix} \begin{bmatrix} BH \\ 3-7 \end{bmatrix} \begin{bmatrix} FR \\ 7-10 \end{bmatrix}$
  - $14 \begin{bmatrix} IH \\ 4-12 \end{bmatrix} \begin{bmatrix} WL1 \\ 7-17 \end{bmatrix} \begin{bmatrix} YO11 \\ 3-3 \end{bmatrix} \begin{bmatrix} YO7 \\ 7-13 \end{bmatrix}$
  - $15 \begin{bmatrix} BH \\ 6-9 \end{bmatrix} \begin{bmatrix} SQ1 \\ 1-12 \end{bmatrix} \begin{bmatrix} BH \\ 4-4 \end{bmatrix} \begin{bmatrix} IH \\ 7-4 \end{bmatrix}$
  - 16 WL1 FR LV3 SQ2 7-6
  - 17 WL1 BH WL1 CC 3-13
  - 18 \begin{pmatrix} WL1 \ 5-8 \end{pmatrix} \begin{pmatrix} WL1 \ 1-22 \ 1-4 \end{pmatrix} \begin{pmatrix} SC \ 4-13 \end{pmatrix}
  - 19 WL2 WL2 WL1 LVTR1 7-3 L-10
  - $20 \begin{bmatrix} LV3 \\ 7-2 \end{bmatrix} \begin{bmatrix} CC \\ 2-4 \end{bmatrix} \begin{bmatrix} BH \\ 5-11 \end{bmatrix} \begin{bmatrix} BH \\ 5-1 \end{bmatrix}$
  - $21 \begin{bmatrix} CC \\ 4-13 \end{bmatrix} \begin{bmatrix} LV3 \\ 5-12 \end{bmatrix}$  buff  $\begin{bmatrix} WL1 \\ 7-13 \end{bmatrix}$

 $\Box$ 

column

 $\circ$ 

22 -

 $\triangleleft$ 

# Block F2 germinated 20 -WL1 7–18 21 buff buff buff CP3 7–1 IH 4–21 WL1 4–13 WL1 2-3 22 -CC 1–6 TM2 LVTR1 3–13 5–13 WL2 23 -4–3 YO8 | WL1 | 6-7 BH 7–20 FR 24 -1–10 WL1 3-2 SQ1 7-6 WR 1–11 SQ1 1–13 25 -WL2 WL1 3–13 SQ1 3-4 26 -LV3 1–9 WL1 6-23 BH 5–2 YO4 27 -4-4 SQ1 CC ВН 28 -4–5 1–1 4–8 WL1 7-28 YO7 ΙH WL1 29 -4–3 1–6 SC 6–1 CC 7–8 YO11 BH 30 -6-10 6–7 DPR 6-2 LV3 5-1 WL1 WL1 31 7–4 2–17 WL1 BH BH ΙH 32 -1–12 4–3 5–17 2–11 YO7 SQ2 CC ΙH 33 -4–13 5–5 6–6 3–12 LV3 7-3 WL1 BH BH 34 -1-23 5-27 2–1 CP2 3-5 LV3 8–5 CC 7–1 FR 2–12 35 -LV3 5–13 LV3 4-13 SQ1 7–14 LV3 3-2 36 -CP2 6-4 SC 4–1 SQ2 5–5 SQ3 3-2 37 -SC 5–1 CP2 4-6 TM2 3-2 ΙH 38 7–5 BH 3-8 BH 5–12 DPR 7-4 TM2 1-4 39 -FR 5–13 CP2 9-3 DPR 2-4 buff 40 buff buff buff buff 41 buff buff buff buff 42 **-**43 - $\triangleleft$ $\Box$ $\circ$ column

§ 0

# Block G1 NOT germinated YO7 1-6 SQ1 3-7 YO11 2–12 SC 3–2 1 -YO11 LVTR1 ΙH 2 -4–11 6-5 1–7 2-8 CP3 4–12 CC 4-1 YO4 WL2 3 -4-9 6-6 FR 5–8 LV1 **YO8** YO8 4–8 1–11 1–9 SQ2 3-3 SQ3 1-4 CP2 4-10 DPR 1–11 5 -DPR LVTR1 3–10 6–10 ΙH DPR 6 -3–13 5–5 SQ3 4–1 CP3 3–9 **YO7** LVTR1 4–6 1–2 LV3 CP2 CP3 LV1 8 -4–6 6–10 6–6 7–8 YO4 7–3 TM2 YO11 FR 9 -4–3 7–12 7–6 YO8 5–11 SQ3 TM2 SQ3 10 -6–13 3–9 5–8 YO7 SQ1 YO4 TM2 11 2–13 6–8 5–12 6-6 CP2 WL2 3-12 WL1 LVTR1 12 -5-10 5–3 WL2 7–10 CP3 YO11 WV 13 -7–4 6-3 4–5 SQ3 2-7 BH WV 14 -2-8 6-1 3–6 CC 6–1 SQ2 6-5 WV YO4 3-3 15 -6–1 SQ2 1–12 SC 5–12 LV1 6-13 LV1 3–1 16 -YO8 3-2 SC 1–6 YO7 7-4 LV1 5–9 17 -LVTR1 3-13 SQ1 4–12 TM2 7–10 YO4 1–11 YO7 5–13 FR 6–1 CP2 2-9 LV3 4–10 19 -SC 7–12 CP3 2-5 YO11 5-9 SQ2 4-9 20 WL2 2-6 WR 2-6 YO8 21 -4-1 7-3 WV 2-2 DPR 7–2 WR 22 3-12

ŏ Š

23 -

⋖

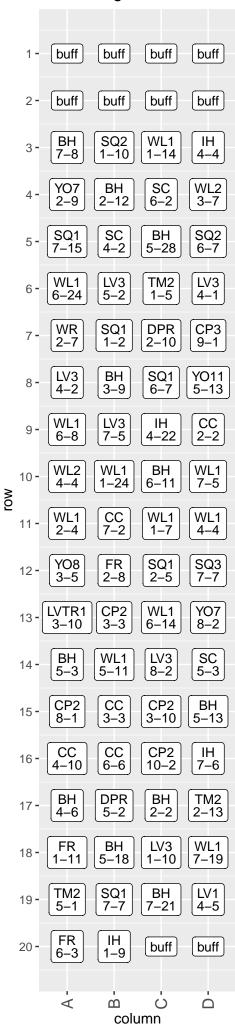
 $\Box$ 

column

 $\circ$ 

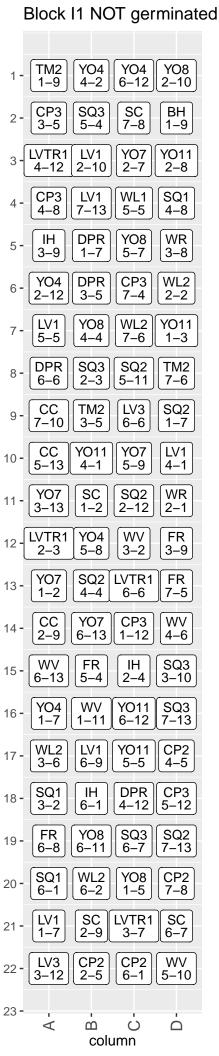
# Block G2 NOT germinated 22 -WL1 3–4 YO7 5-2 FR 3–1 WV 23 -3-12 CP3 5-5 SQ2 3-9 CC 1–8 SQ3 7-6 24 -YO7 7–10 YO4 YO8 YO8 25 -2-6 6–5 3-10 CP3 2–12 YO7 3–7 SC 2–3 LVTR1 26 4-6 LV1 7–7 BH 1–1 WR 1-4 CP3 1-6 27 -SQ2 1-1 YO4 7-9 WV 7–10 28 SC 7–2 SQ2 7–5 LV3 3-6 WV 29 5–4 CC 5–8 YO4 **DPR** YO11 30 3–9 2-8 1–13 YO11 ΙH WL2 LVTR1 31 4-12 6-12 1–13 7–9 LV3 5–4 YO8 TM2 ΙH 32 -5–6 5–1 4–13 WV LV1 **DPR** LV1 33 -1-5 4-12 4–3 6-2 § 0 SQ3 YO11 LVTR1 DPR 34 -7–9 4–9 6–3 3–1 **DPR** YO4 LV1 35 -4-9 3-7 1–1 5–2 WL2 CP2 SQ1 CC 36 -2-12 3–13 5–6 6–12 YO8 2-4 CP2 1–10 WV YO4 37 6–6 6–7 YO11 3-6 SC 3–8 TM2 1-8 WL2 38 5–9 SQ1 3–13 IH 3–3 CP2 6–13 CP3 4–2 39 YO7 6-6 CP2 5-5 SQ1 2-7 WL2 40 1–5 LV1 2-4 WV 2-8 YO7 1–12 SQ3 6–1 CP3 LVTR1 6-9 1-8 FR 2-3 SQ3 1–10 42 SQ2 LVTR1 5-9 SQ2 5–2 TM2 6-13 43 -DPR 5–11 LV1 1–1 SQ3 3–1 YO11 44 -7–12 ⋖ $\Box$ $\circ$ column

# Block H1 germinated

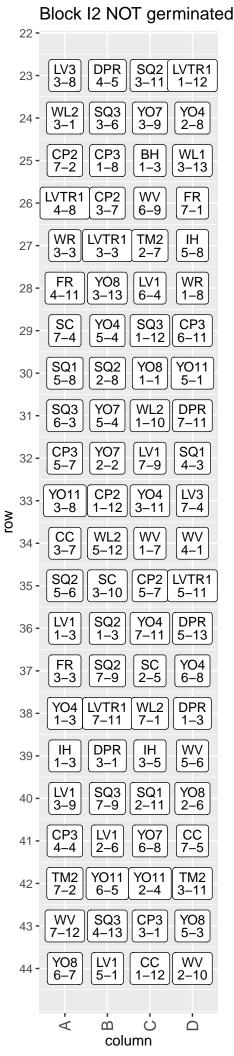


# Block H2 germinated 19 -WL1 6-25 CC 3–5 20 buff buff LV3 2–2 BH 2–3 SQ2 8-3 IH 1–11 21 -WL1 6-9 WL1 1–15 BH 7–22 YO7 2-3 BH 5–29 YO8 7-9 LV3 8–6 WR 1–1 23 -WL1 7-20 DPR 2-6 WL2 4-5 IH 4–5 24 -DPR 4–13 LV3 1–14 WL1 4–5 SQ2 6-8 25 -BH 5-4 SQ1 4-2 LV3 1–11 BH 26 -6–12 WL1 1-8 SC 5-4 WL1 3-1 SQ1 1-3 27 -BH 5–19 LV3 7–6 IH 7–14 FR 1–13 28 -WL1 1-25 WL2 1–8 TM2 1-6 WL1 2-5 29 -YO8 3-6 CP2 6-10 YO11 7–1 § 30 -YO11 2-3 SQ2 1–13 SC 6–3 CP2 3-4 BH 4–7 LVTR1 3–12 FR 6–4 BH 3–10 32 -CP2 3-6 LV3 5–3 CC 4–7 SC 4-3 33 -CC 6–5 BH 2–13 SQ1 7–16 TM2 5-5 34 -WL2 5-3 TM2 3-1 CC 2–1 35 -LV3 6-4 FR 6-7 CP2 9-1 IH 7–7 36 -CP3 5-9 FR 3-5 WL1 7-6 SQ3 6–10 37 -BH 6–2 WL1 6–15 SC 2–11 BH 7–9 38 buff buff buff buff 39 buff buff buff buff 40 -41 - $\triangleleft$ $\Box$ $\circ$

column



§ 0



# Block J1 germinated

buff buff buff 1 buff buff buff buff buff BH 6–13 CP2 1–6 SQ3 6–12 WL1 6–26 BH 2–4 IH 7–8 BH 6–3 SQ1 7-9 TM2 3-10 YO7 5-1 LV3 1–2 LV3 6–7 5 -WL1 1–26 DPR 6–10 IH 5–10 WL1 7–21 SQ1 1-4 SQ1 2–3 LV3 5–5 FR 6–2 TM2 4-10 FR 1–1 WL1 7-7 CP2 8-3 CC 2–6 YO11 6-13 SC 4-4 BH 5–30 SC 5–5 IH 4–14 CC 3–2 BH 3–1 10 -CP2 7–12 FR 2–11 YO8 7-4 ഉ 11 -CC 4–4 WL2 5-8 BH 7–23 SQ2 7-7 12 -WR 1–6 SQ1 7–17 IH 6–13 TM2 6-7 13 -IH 4–6 WL1 6-10 BH 4–8 WL1 1–16 YO4 1-1 WL1 1–9 CP3 2-7 15**-**SC 6-4 CC 6–4 BH 5–5 16 -LV3 2-7 WL2 4-6 SQ2 6–10 WL1 4-6 17 -YO8 7–10 LVTR1 6-2 SC 2-2 LV3 7–8 18 **-**BH 3–11 BH 5–20 LVTR1 7–4 WL2 1–13 19 -BH 7–10 CP2 3-12 WL1 2-6 LV3 1–12 YO11 WL1 3–13 6–16 DPR 4-8 buff 21 -22 - $\triangleleft$  $\Box$  $\circ$ column

# Block J2 germinated 20 -WL1 7–22 21 buff buff buff WL1 2-7 WL1 1-27 YO4 4-3 BH 4–9 22 -SQ2 6–11 LVTR1 6-11 IH 4–15 WL1 23 5-3 SC 6–5 WL1 6-27 WL2 5-4 BH 2-5 24 -CP2 5–1 FR 7–9 YO8 7-6 SQ2 8-2 25 -LV3 1–13 YO7 4–12 YO7 6–10 | IH | 7–9 26 -SC 4–5 CC 5–6 WL2 3-4 WL1 6–17 27 -SQ2 4–2 TM2 YO11 28 -1–10 2–2 SQ1 4–13 CP2 7-7 BH WL1 29 -4–14 4–7 FR 4–2 BH BH TM2 30 -4–12 5–6 7–14 DPR BH DPR WR 31 2-12 6–11 1–9 3–12 § 0 TM2 2-6 WL1 6-1 LV3 32 -3-2 6–5 FR 2–2 LV3 1-3 SQ1 7–18 WL1 33 -1–17 LV3 5-6 SC 5–7 LV3 7-9 BH 34 -7–11 TM2 6-1 BH 5–31 CC 5–5 BH 35 -5-21 WL1 7-8 WL2 4-8 BH 1–7 ΙH 36 -5–11 SQ1 7–10 CC 3–9 LV3 8-4 LV3 2–6 37 -SQ1 1-5 CC 2–3 SQ3 4–10 WL1 1–10 38 CP2 3-2 CP3 6-13 FR 5-3 WL1 6-11 39 BH 7–1 BH 6–4 buff buff 40 buff buff buff buff 41 buff buff buff buff 42 **-**43 - $\triangleleft$ $\Box$ $\circ$ column

# Block K1 NOT germinated

FR 7–6 CP3 4-9 YO7 5–10 WV 7–1 FR 5–5 CC 7–11 SC 2–10 YO8 1-6 2 -SQ3 2-4 TM2 7-7 YO4 LV1 3 -2–11 1–8 YO8 6–12 LV1 5–6 CP3 7–5 YO11 4 -5–6 LV1 1–8 WL2 6-3 YO7 2-8 YO8 5 -5–8 LVTR1 3–8 YO4 6–13 YO4 2–13 YO7 4–1 SC 5–2 SQ2 5–12 YO7 7–1 DPR 6–7 FR WV YO7 ΙH 8 -1–3 3-10 3–10 | 1–12 DPR 3-6 CP2 2-6 CC SQ3 9 -2-12 6–8 SQ3 3–11 CP2 4–7 WL2 7-7 TM2 6-2 10 -SC 7–9 CP3 SC BH 11 3-6 1–3 1–11 SQ2 2–13 YO4 LVTR1 LV3 12 -4-6 2-4 3–13 WL2 YO8 SQ1 DPR 13 -5–1 3–9 4–5 6–3 YO11 LVTR1 | WL2 SQ1 14 6-7 2–3 4-9 2-9 CC 3–6 YO11 1-4 LV3 4-3 LV1 15 4–2 SQ3 5–5 YO11 7–3 LV3 2–9 WV 16 5–11 CP3 5–13 TM2 2–12 WL1 5–6 ΙH 17 -6–2 SQ2 4–5 CP2 7–9 LV1 6–10 TM2 18 -2–11 YO11 4-2 WR 2-3 LVTR1 4-13 CP2 6-2 19 WV 3–3 YO4 5-9 CP3 2–1 SQ1 3-3 20 IH 2–5 DPR 1-8 WR 3–9 21 -SQ3 1-1 FR 6-9 YO8 2–12 SQ2 1-8 22

§ 0

23 -

⋖

 $\Box$ 

column

 $\circ$ 

#### Block K2 NOT germinated 22 -WV LVTR1 ΙH 23 -5-4 1-13 5-7 2–1 SQ3 7–10 **YO7** WL1 24 -5–2 5–1 6–9 SC 2-6 LVTR1 ΙH LV1 25 -3-10 4-9 5–9 FR 3-4 YO7 LV3 SC 26 -5–6 | 6–11 || 3–11 SQ2 2-9 TM2 7-3 SQ1 5–10 **YO4** 27 -1-4 DPR YO7 CC 7-12 3-10 1-13 DPR 28 1-4 FR 7–2 SQ3 WR SQ1 29 4-5 6–4 1-10 LV1 1–4 SC 7–5 CP3 SQ3 30 3-7 4-5 WL2 LVTR1 CP2 WL2 31 -1-11 3-45–9 3–2 SQ2 3–12 WV YO4 YO4 32 2–11 2-9 5–5 YO8 YO8 WR 33 6-8 1–2 3–4 **DPR** DPR FR 34 4-2 4–12 6–5 3–2 SQ1 2–12 CP3 SQ2 SQ2 35 -1–9 7–10 1–4 CP3 WV TM2 SQ3 36 -6-12 7–13 5–1 5–2 YO8 2-7 YO7 2-4 YO11 3-9 BH 37 1-4 TM2 LV1 LV1 YO4 38 2–3 6–5 7–10 7–12 YO4 LVTR1 7-12 DPR 4-6 YO4 39 6-9 CP3 5–8 WL2 CP2 40 -1–8 5-10 1–13 SQ3 1–13 YO11 2-5 YO8 4–1 CP2 7-3 CP3 3-2 CC 3-4 CP2 4-1 ΙH 42 3–6 LV3 3-9 YO11 SQ2 43 6-8 5–8 WV LVTR1 YO11 44 6–10 6–1 5-2

§ 0

⋖

 $\Box$ 

column

 $\circ$ 

# Block L1 germinated buff 1 buff buff buff buff buff buff buff 2 -SQ3 4–3 SQ1 7–11 YO11 7–13 IH 4–8 3 **-**SC 5–8 CP2 2-2 SQ1 BH 5–13 4–10 4 -BH 2–6 YO7 2–1 WL1 1–11 WL2 3-8 5 -TM2 1–11 WL1 1–28 LV3 1–4 WL1 6–18 WL1 1–18 WR 2-2 SC 4–6 SQ2 5-7 CC 4-6 BH 7–2 WL1 7–9 WL1 8 -6–12 DPR 3-7 CP2 10-1 SQ1 7–1 WV 9 -4-4 SC 1–9 BH 2–14 WL1 LV3 10 -1–1 8–1 CP2 3-8 FR IH 7–10 BH 11 3–3 SQ1 2-9 SC CP2 WL2 12 4–9 6-6 8–2 FR 6–12 SQ1 7–19 BH BH 13 -3–13 | 5–22 YO8 7-2 YO7 CC 14 -8–3 1–1 TM2 3-12 WL1 3-3 WL1 15 **-**4–8 WL1 6–2 BH 6–5 DPR 6–13 FR 5–10 16-WL1 2-8 FR 2–1 CC 7–3 CC 5–11 17 -LV3 2–4 CP3 9-2 TM2 7–11 ВН 18 -7–12 LVTR1 DPR 5-12 4-11 WL2 7–3 SQ2 6–12 19 YO11 6-6 WL1 6-28 LV3 7–10 BH 7–15 20 IH 4–16 LV3 5–8 SQ1 1-6 TM2 2-5 21 WL1 7-23 CC 3–8 buff 22 23 -

. 0

⋖

 $\Box$ 

column

 $\circ$ 

# Block L2 germinated 21 -LV3 3-3 buff 22 buff buff IH 7–1 CC 6-10 LV3 8-3 YO8 6-2 23 -WL1 1–19 CP2 5-10 BH FR 24 -5–23 7–11 SC 4–7 IH 1–6 WR 1-7 LVTR1 7–2 25 -SQ3 3–3 WL1 2–9 WL1 6-19 WL1 26 -4-9 CP2 7–6 | IH |4–17 BH 6–6 BH 2–7 WL1 1–2 CP2 9-4 LVTR1 BH 28 1–11 3–14 TM2 1–12 YO11 BH TM2 29 -6–9 4–11 3–4 WL1 7-24 SC 1–8 LV3 5–9 FR 30 -3–13 SQ1 7–20 CP2 1–1 CC 2–7 CC 5–3 31 -WL2 WL1 SQ2 DPR 32 -4–3 1-12 2–2 4–10 TM2 5-8 BH WL1 WL1 33 -6–13 5-8 7–14 WL1 7–10 TM2 4-9 SC 5–9 LV3 34 -1–5 YO4 WL1 SQ1 35 -1-9 2–2 3-5 6–2 DPR 6-3 SQ2 6-1 BH 7–16 WL1 6-3 36 -SQ1 7-2 SQ1 7–12 WL1 4-14 BH 3-4 37 -LV3 6–8 LV3 7–11 YO7 4–2 38 -YO8 7–11 IH 7–11 LV1 7-2 ВН 39 7–13 SQ1 2-4 FR 4–13 BH 4–1 40 SC 6-8 BH 7–3 IH 4–9 CC 1-9 41 buff buff buff buff 42 buff buff buff buff 43 **-**44 - $\triangleleft$ $\Box$ $\circ$ column

§ 0

# Block M1 NOT germinated CP2 1–5 YO11 4-7 SQ1 1–10 LVTR1 7-3 YO7 3-3 WL2 4-7 CP3 2-8 SQ2 2-2 2 -CC 3–1 CP2 2–12 FR 4-4 CC 6-7 3 -LV1 4-8 CP3 7–10 LV1 1–13 YO4 2–1 4 -LV3 5–7 DPR 7-5 CP3 5–1 DPR 5-7 5 -YO11 3-1 WL2 DPR 7-12 1-13 YO4 6 -4–11 WV 3-8 YO4 3-5 SQ2 3–5 SC 1–10 YO7 ΙH LVTR1 TM2 5-5 6–9 1–8 6–8 YO11 7-8 YO11 LV1 SQ2 9 7–1 5–11 1–9 YO7 7–6 WL2 TM2 CP2 10 -6–8 4–5 6–8 ΙH CP2 WR ΙH 11 2-11 4-12 | 2-10 1–8 SQ3 WV **YO7** 12 -5–12 5-10 4-9 2–4 SQ1 5–2 WL2 LV3 SQ2 13 -4–11 4–11 2–8 FR 1–7 SQ3 CP3 14 -7–6 1–6 6-5 DPR 3–12 SC 3–4 LV1 3-3 WV 15 **-**6–3 YO4 7-5 WV 1-1 YO8 LVTR1 16 3–4 1–4 LVTR1 2-10 LV1 7-3 YO11 5–11 SQ3 2–9 17 TM2 3-7 YO8 5–13 SQ1 6–10 YO4 6-2 18 -WL1 5–13 SQ3 4-5 SC 6-9 CP3 1-2 19 CP3 3–11 SQ3 7-2 IH 5–2 YO8 20 1–12 YO8 7–12 WV 4–13 SQ1 3-9 TM2 7–13 21 YO8 LVTR1 4-10 4-2 CC 1–3 **YO7** 22 6–2

§ 0

23 -

 $\triangleleft$ 

 $\Box$ 

column

 $\circ$ 

## Block M2 NOT germinated 22 -SQ3 7–12 YO11 SQ2 23 -6–11 4-1 TM2 5-4 LV1 3–12 LV3 7–7 SQ3 5-3 24 SQ2 2–11 SQ3 3-9 WL2 CP3 25 -2–1 1–11 SQ1 4-7 CC 5–4 TM2 LVTR1 26 5-10 6–4 YO4 5-7 WV 3-1 ΙH WL2 27 -2-3 3–5 SQ1 5–12 YO7 2-6 CP3 5–11 DPR 28 1–6 CP2 2-4 SC 7–7 WV YO4 29 4–1 6–12 CP2 5-12 SC 2–8 YO11 TM2 30 3-11 7–5 LVTR1 LV1 WV **DPR** 31 1–6 4–5 4–10 SQ2 YO8 LVTR1 CP3 32 1–6 5–6 3-6 3–4 WV FR YO8 WR 33 -5-9 2-6 1–4 3–6 § 0 SQ2 7–12 LV1 7–12 LV1 YO8 34 -6–10 6–8 SC YO4 YO7 YO8 35 -3-12 4-3 1–1 2–11 WR YO11 SQ2 36 -3-8 1-13 1–2 5–10 LV1 2-9 LV3 3–11 YO8 2-9 **YO4** 37 1-6 SQ3 2-2 WL1 5-4 SQ3 6-6 YO7 38 5-8 YO7 1-1 CP3 4-7 CP2 4-3 FR 5–2 39 WL2 7-5 CP3 7-3 WL2 YO4 40 6–1 6–11 SQ1 3–1 IH 3–8 LV1 5-4 5–13 CC 4–11 CC 7–9 DPR 2–13 LVTR1 4–11 42 CP2 7-5 WV YO11 BH 43 -1-10 5–4 1–6 SC 3–13 DPR | YO11 YO7 3-4 2-7 6-12 ⋖ $\Box$ $\circ$

column

# Block N1 NOT germinated YO11 4–9 YO4 7–7 CP3 3–13 SQ3 1-8 DPR 7-7 CP3 2–10 CP2 5-3 TM2 2 -4–7 CP2 CP3 7-12 WL2 3 -2–10 1–3 YO11 1–11 CP2 TM2 5–11 1–8 1–5 DPR 2-3 YO11 7–10 CP3 LVTR1 5 -1–4 4–4 SQ3 4-7 LVTR1 YO7 2–12 4–11 WV 6 -6–5 WV 7–8 SQ2 3-7 WR 1-2 YO4 6–4 WV YO8 SQ1 SQ1 8 -2–6 2–1 3–11 5–4 WL2 YO7 WL2 SC 9 -6–10 3-5 1–3 4–11 LV1 2–2 SQ2 2–4 LV1 **DPR** 10 -5–13 4–1 SC 3–6 LVTR1 YO11 SQ2 11 4-13 6-1 WR WV LVTR1 FR 12 2-12 5–7 4-6 5–2 SQ1 6–12 YO4 YO7 YO8 13 -2–4 1–10 | 4–12 SQ3 YO4 LV1 14 -5–12 1-5 4–13 3–5 SQ3 2–11 WL2 5–2 YO8 15 -6–3 YO8 7-5 IH 3–1 LV3 3-4 ΙH 16 -5-4 CP2 3-9 LV1 7–5 IH 1–2 LV1 4–10 17 -CP3 6-7 DPR 5-9 SQ3 7–4 SQ1 2-2 18 CC 5–2 YO7 6-4 IH 6–10 LV3 4–4 19 -YO11 3-4 WL1 3-7 WV 3-10 TM2 20 6–11 YO7 7-8 CP3 5-3 FR 2–13 SQ2 21 7–3 YO8 3-8 CC 6-9 SC LVTR1 22 1-6 1-12 23 -

ŏ Š

 $\triangleleft$ 

 $\Box$ 

column

 $\circ$ 

### Block N2 NOT germinated 22 -YO7 7–2 YO11 4-3 TM2 6-3 ΙH 23 2-6 CC 7–12 WV WL1 **YO4** 24 -4–8 5–7 1–9 CP3 3-7 SQ2 LV1 LV3 25 -2–12 2–11 4–7 SC WV 6–13 1–13 SQ3 1–2 LV1 26 -1–9 SQ2 1-9 SC 7–10 LV3 2–13 JH. 27 -6-3 SQ3 YO11 2-10 FR **DPR** 28 5-6 3–8 CP3 YO7 CP3 BH 29 5–11 7–6 2–2 1–12 WL2 WV LVTR1 DPR 30 -6–12 7–8 5–12 3-9 SQ3 3–12 ΙH YO8 LV1 31 -5–9 3–11 6–11 YO8 2–13 CP2 SQ3 SQ1 32 4–10 6–3 6–9 CC 4-3 YO8 CC **YO7** 33 4-6 3–11 4–3 TM2 **YO7** FR 34 4–3 7–7 1–1 1–4 CP3 TM2 YO11 SQ2 35 -4–10 5–13 4–1 7–4 CP2 CP3 DPR SC 36 -6–1 4–8 5–3 2–12 CP2 2-7 SQ1 6-5 FR 2-7 YO4 37 5–10 SQ2 LVTR1 3-1 5-1 LV3 2–12 WR 2–4 38 -YO8 6-13 TM2 7-8 LV1 5-7 **DPR** 39 1-9 YO7 2–11 WV 3–4 WL2 2-4 YO4 40 -7–1 WV 7-2 YO11 1-5 LVTR1 YO8 41 6–8 1–7 WL2 3-10 WR 3–10 FR SQ1 42 3–11 3–5 SQ3 LVTR1 2-5 2-6 YO4 3-1 YO11 43 -5–7 WL2 6-4 YO4 4-7 SC 1–4 CP2 7–10 44

§ 0

⋖

 $\Box$ 

column

 $\circ$