

met-2 (K43)

Back cross

801 I (DDP strain) $\left[\begin{matrix} 425 & 12 & 355 \\ M & 761 & a \end{matrix} \right] \text{trp-4 met-2} \times \text{SL} + A \text{ (#2489)} \text{ M } \underline{11A}$

801 II (801.I.24) $a \text{trp-4 met-2} \times + \text{M } \underline{11A}$ " "

801 III M 1096/a (II.56) $\text{trp-4 met-2} \times + \text{ORS } \underline{66py} + 74A$ SL

801 IV (801.III.17) $a \text{trp-4 met-2} \times \text{M } \underline{11A} + \text{FGSC} \text{ (#2489)}$

801 V (801.IV.22) $a \text{trp-4 met-2} \times \text{M } \underline{11A} +$ " "

M $\left[\begin{matrix} 1298 & a \\ 1299 & A \end{matrix} \right] \text{trp-4 met-2}$

FGSC # 4061 = M 1499/A (801.V.8) met-2 (K43)

No T controls :

801 DDP $\begin{matrix} Y & 2198 \\ \text{trp-4} & \text{met-2(K43)} \end{matrix} \times ++ A$

I $\left[\begin{matrix} 425 & 12 & 355 \\ 761 & a \end{matrix} \right] \times \text{(#2489) } \underline{11A}$ Germination Allele ratios

II $\left[\begin{matrix} 1018 & a \text{ (I.24)} \\ 1019 & A \end{matrix} \right] \times \text{ " " } \text{GCP } \text{trp}$ $\left. \begin{matrix} 139/200 \sim 70\% \\ 81/100 \sim 80\% \end{matrix} \right\}$ $\begin{matrix} \text{trp}^+ : \text{trp}^- \\ 42 : 96 \\ 38 : 43 \end{matrix} \quad \begin{matrix} \text{met}^+ : \text{met}^- \\ 46 : 92 \\ 36 : 45 \end{matrix} \sim 50\%$

III $\left[\begin{matrix} 1096 & a \text{ (II.56)} \\ 1097 & A \end{matrix} \right] \times \text{(#74) } \underline{A} \text{ADS}$ HCM $\left. \begin{matrix} 40/48 \sim 80\% \\ 40/54 \sim 75\% \end{matrix} \right\}$ $\begin{matrix} 9 : 24 \\ 29 : 163 \end{matrix} \quad \begin{matrix} 6 : 27 < 30\% \\ 28 : 164 \sim 50\% \end{matrix}$

IV (III.7) $\times \underline{11A}$ $\left[\begin{matrix} 300/402 \rightarrow 75\% \\ \text{pre-terminating} \\ 150 \rightarrow 45 \text{ got} \end{matrix} \right]$ $\begin{matrix} 15 & 25 \\ 18 & 22 \end{matrix} \quad \begin{matrix} 16 & 24 \sim 60\% \\ 19 & 21 \end{matrix}$

V (IV.22) $\times \underline{11A}$ $\left[\begin{matrix} 122 : 210 \\ 150 \rightarrow 45 \text{ got} \end{matrix} \right]$ $\begin{matrix} 18 & 22 \\ 22 & 210 \end{matrix} \quad \begin{matrix} 19 & 21 \\ 123 : 209 \end{matrix}$

$\rightarrow \text{met-2 M } \underline{1499/A} = \text{FGSC } 4061$
linked 59%

Recombination

trp-4 - met-2			
++	--	+ -	- +
91	40	6	2
43	36	0	2
24	6	0	3
158	82	6	7
23	14	2	1
27	18	2	1
208	114	10	9

5.6%
trp-4 met-2