

1971 $\left\{ \begin{array}{l} M2226 \text{ proA1 } yA91^{div} ; \text{IodA1} ; + \text{malA1} ; \text{riboB2} \\ M2227 \text{ pabaA1 } yA91^{div} ; \text{IodA1} ; \text{phenA2} ; \text{malA1} + \end{array} \right\} \text{ both from } \text{cross } 1978$
 = #461 x #462

#464 $\left\{ \begin{array}{l} \text{lacA1 } bW\text{A1 } sB3 ; sbA3 ; \text{malA1} \\ \text{suA1 } adE20 \text{ pabaA1 } yA2 ; \text{AccA1} ; \end{array} \right\} \text{ (from } 1952)$
 1955 $\left\{ \begin{array}{l} \#437 \text{ proA1} ; wA3 ; \text{nicA2} ; \text{malA1} \text{ (from } 1923) \\ \text{pabaA1 } yA2 \text{ adE20 ; } \text{AccA1 (9/1/75)} ; \text{nicA2} ; \text{lacA1 } sbA3 ; \text{malA1} \end{array} \right.$

1977 $\left\{ \begin{array}{l} M2217 \\ M2069 \text{ proA1 } biA1 ; \text{holbG1} ; \text{choA1 } \text{malA1} \end{array} \right.$

from cross 1923 see # 457
 444
 447
 & 79