

cho-2 (47904) x tip-2 (75001) pedigree

from 583 III-VI = cho-2 tip-2 x +  
Back crosses } also: cho-2 tip-2 not in FGSC

#4093 = 812 A } cho-2 (47904)  
4094 = 813 a }

FGSC # 4107 = 814 A } tip-2 (75001)  
4108 = 815 a }

Back cross 541 II M 241 A x M 2 a SL + (FGSC # 2490)  
acr-2 daw; cho-2 ylo-1 tip-1

Inter-Cross 541 I M 239 acr-2 daw A x M 224 a cho-2 ylo-1 tip-2 (514.I.19)  
(509.II.12)

Back crosses 509 III (509.II.34) x SL M + I A (# 2489)  
acr-2 daw  
II (I.31) a x + A  
509 I (# FGSC 2037 a x SL M + I A (FGSC 2489)  
M 126 a acr-2 daw

Back cross 514 I FGSC # 2092 a x SL FGSC + (2489) A  
M 135  
cho-2 ylo-1 tip-2 (47904) (Y30539y) (75001)

Details of back crosses 583 III-VI cho-2 tip-2 x +  
47904 75001

583 II: (541.II.35) A cho-2 daw x M 2 a SL + (# 2490) (= ORS<sub>A</sub>)

583 IV: M 461 a cho-2 daw x M I A SL +

583 V: (583.IV.32) a cho-2 daw x I A +

583 VI: (583V.39) a cho-2 daw x I A +

#4093 } listed above  
4094 }  
# 4107 }  
4108 }

Germination No / Total spores	Allele ratios	
	cho: +	tip: +
47 / 49	26:21	29:18
85 / 100	49:36	50:35
42 / 50	22:19	17:24
84 / 100	40:44	40:44
258 / 299	137:120	136:121
86.3% Germination rate	>100% >100% relative viability of mutants in ascospores	