

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

from 583 = cho-2 tip-2 x +  
 Back crosses } III to VI also: 810/A 811/a 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 2/a + (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 1/A + SL M (# 2489)  
 acr-2 daw  
II (I.31) a x + A  
509 I (# FGSC 2037) a x 1/A + SL M (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) (Y30539) (75001)

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

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

583 IV : M 461 a cho-2 daw x 1/A + SL

583 V : (583.IV.32) a cho-2 daw x 1/A + SL A Wild type

583 VI : (583V.39) a cho-2 daw x 1/A + SL A (FGSC # 2489)

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

Germination No / Total spores	Allele ratios	
	choi+	tip-2
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	