Supplementary File 1

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| Residue at 588 | Complements *smc1∆*? | Complements *scc4∆*? |
| Asp (D) | YES | NO |
| Tyr (Y)  Phe (F)  Trp (W) | YES  YES  YES | YES  YES  YES |
| His (H)  Ala (A)  Glu (E)  Arg (R)  Asn (N) | YES  YES  YES  YES  YES | NO  NO  NO  NO  NO |