Supplementary File 1

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