

Supplementary Table 7. Prediction of mutation effects on SMC1A protein.

<b>Amino acid change</b>	<b>Effect (Mutation Tester)</b>	<b>Effect (PolyPhen2)</b>
<b>Adenoma</b>		
S14P	Probably deleterious	Probably damaging
D207G	Probably harmless	Benign
S653P	Probably deleterious	Probably damaging
I849V	Probably harmless	Benign
N888D	Probably harmless	Benign
D1063N	Probably harmless	Benign
L1141F	Probably harmless	Probably damaging
<b>Carcinoma</b>		
I299T	Probably deleterious	Probably damaging
K317R	Probably deleterious	Probably damaging
V343M	Probably deleterious	Probably damaging
Q483R	Probably deleterious	Probably damaging
T535I	Probably deleterious	Probably damaging
G643E	Probably deleterious	Probably damaging
A656T	Probably deleterious	Probably damaging
E676G	Probably deleterious	Benign
Q756P	Probably deleterious	Probably damaging
S757G	Probably harmless	Benign
D833G	Probably harmless	Benign
M935T	Probably deleterious	Probably damaging
M935V	Probably deleterious	Probably damaging
E1032K	Probably deleterious	Probably damaging
F1182L	Probably harmless	Benign