

Table S1. Description of samples assayed for *AKT1* p.Glu17Lys mutation.

| Sample number | Patient | Type ¹ | Anatomical location |
|---------------|---------|-------------------|---|
| 34EN1 | 34 | EN | abdomen |
| 78EN1 | 78 | EN | left hand |
| 78EN2 | 78 | EN | left hand |
| 89EN1 | 89 | EN | right neck |
| 95EN1 | 95 | EN | left groin |
| 101EN1 | 101 | EN | left side infraaxillary vault |
| 106EN1 | 106 | EN | right axilla- plaque |
| 106EN2 | 106 | EN | right axilla - tag |
| 134EN1 | 134 | EN | right hand |
| 52CTN1 | 52 | CCTN | left foot |
| 75CTN1 | 75 | CCTN | plantar surface, left great toe |
| 75CTN2 | 75 | CCTN | plantar surface, left great toe |
| 75CTN3 | 75 | CCTN | left great toe |
| 75CTN4 | 75 | CCTN | left great toe |
| 75CTN5 | 75 | CCTN | ball, left foot |
| 103CTN1 | 103 | CCTN | ball, left foot |
| 75UN1 | 75 | unknown | dorsal surface distal to nail, left great toe |
| 75UN2 | 75 | unknown | dorsal surface, left great toe |
| 75UN3 | 75 | unknown | border of normal skin, left great toe |
| 78UN1 | 78 | unaffected | left forearm |

¹EN, epidermal nevus; CCTN, cerebriform connective tissue nevus; unknown, normal appearing tissue bordering a CCTN; unaffected, normal appearing tissue far removed from a lesion