

**Supplementary table 2:** Comparative histopathology of metastasis

|                                             | Mouse    | metastasis          | CK8 | CK14 | Vim |
|---------------------------------------------|----------|---------------------|-----|------|-----|
| <b>WCre;Ctnnd1F/+;<br/>Cdh1F/F;Trp53F/F</b> | 10DER011 | lungs               | +   | -    | -   |
|                                             | 10SJK254 | axillary lymph node | +   | ±    | -   |
|                                             | 09SJK136 | axillary lymph node | +   | -    | +   |
|                                             | 10DER009 | lungs               | +   | -    | -   |
|                                             | 10DER021 | abdominal cavity    | -   | -    | -   |
|                                             | 10DER007 | distant lymph nodes | +   | -    | -   |
|                                             | 11SJK032 | lungs               | +   | -    | ±   |
| <b>TKO</b>                                  | 10DER008 | axillary lymph node | +   | -    | -   |
|                                             |          | lung                | ±   | +    | -   |
|                                             | 09DER006 | axillary lymph node | +   | +    | -   |
|                                             |          | lung                | +   | +    | -   |
|                                             | 10DER004 | abdominal cavity    | +   | ±    | -   |
|                                             | 09DER012 | lungs               | +   | +    | -   |
|                                             | 09DER013 | axillary lymph node | +   | +    | -   |
|                                             | 09DER003 | lumbal lymph node   | +   | +    | ±   |
|                                             | 09DER010 | axillary lymph node | +   | -    | -   |
|                                             | 10DER013 | axillary lymph node | +   | -    | -   |
|                                             |          | spleen              | +   | -    | -   |
|                                             |          | liver               | +   | +    | ±   |
|                                             | 09DER016 | axillary lymph node | +   | -    | -   |
|                                             | 09DER017 | axillary lymph node | +   | -    | +   |

- = no staining, ±= focal expression in less than 10% of the tumor cells, + = expression in at least 10% of all tumor cells