

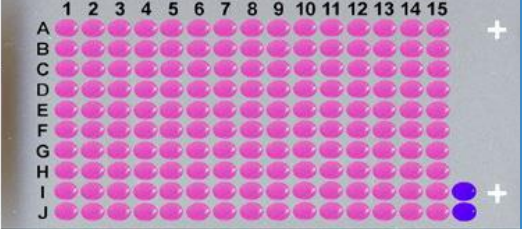


**Quickarrays, Inc**

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Advancing Biomedical Science Through Tissue Arrays

## Cat No: **KIC1502** - Kidney cancer tissue array, set 2

| Lot#      | Cores | Size  | Cut | Format | QA/QC                            |                                                                                                                                                                      |
|-----------|-------|-------|-----|--------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KIC150201 | 150   | 1.1mm | 4um | 10X15  | H&E, IHC<br>anti-<br>Cytokeratin |   |

**Recommended applications:** For Research use only. RNA or protein kidney cancer/non-tumor tissue profiling using IHC or ISH; Antibody characterization.

**Description:** Kidney cancer tissue array, set 2, 150 cores including 75 cases of normal, reactive and cancerous tissues of the kidney in duplicates.

All the tissues were from surgical resection. They were fixed in 10% neutral buffered formalin for 24 hours and processed using identical SOPs. Sections were picked onto Superfrost Plus or APES coated Superfrost slides. They can be stored for use at 4C for up to six months from the date of shipment. **There may be 5 to 10% of tissue core loss.**

| Array Position | Sex | Age | Anatomic Site | Pathology                                   | Grade  | Stage  |
|----------------|-----|-----|---------------|---------------------------------------------|--------|--------|
| A01            | M   | 62  | Kidney        | Normal                                      | null   | null   |
| A02            | M   | 75  | Kidney        | Normal                                      | null   | null   |
| A03            | F   | 27  | Kidney        | Chronic pyelonephritis                      | null   | null   |
| A04            | F   | 37  | Kidney        | Angiomyolipoma                              | null   | null   |
| A05            | F   | 62  | Kidney        | Angiomyolipoma                              | null   | null   |
| A06            | M   | 47  | Kidney        | Transitional cell carcinoma                 | III    | T1N1M0 |
| A07            | M   | 61  | Kidney        | Medullary carcinoma                         | null   | T1N0M0 |
| A08            | M   | 65  | Kidney        | Clear cell carcinoma                        | null   | T1N0M0 |
| A09            | M   | 69  | Kidney        | Granular cell carcinoma                     | null   | T1N0M0 |
| A10            | M   | 65  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| A11            | F   | 55  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| A12            | F   | 72  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| A13            | M   | 57  | Kidney        | Squamous cell carcinoma                     | I~II   | T2N1M0 |
| A14            | M   | 72  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| A15            | M   | 49  | Kidney        | Clear cell carcinoma                        | null   | T1N0M0 |
| B01            | M   | 62  | Kidney        | Normal                                      | null   | null   |
| B02            | M   | 75  | Kidney        | Normal                                      | null   | null   |
| B03            | F   | 27  | Kidney        | Chronic pyelonephritis                      | null   | null   |
| B04            | F   | 37  | Kidney        | Angiomyolipoma                              | null   | null   |
| B05            | F   | 62  | Kidney        | Angiomyolipoma                              | null   | null   |
| B06            | M   | 47  | Kidney        | Transitional cell carcinoma                 | III    | T1N1M0 |
| B07            | M   | 61  | Kidney        | Medullary carcinoma                         | null   | T1N0M0 |
| B08            | M   | 65  | Kidney        | Clear cell carcinoma                        | null   | T1N0M0 |
| B09            | M   | 69  | Kidney        | Granular cell carcinoma                     | null   | T1N0M0 |
| B10            | M   | 65  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| B11            | F   | 55  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| B12            | F   | 72  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| B13            | M   | 57  | Kidney        | Squamous cell carcinoma                     | I~II   | T2N1M0 |
| B14            | M   | 72  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| B15            | M   | 49  | Kidney        | Clear cell carcinoma                        | null   | T1N0M0 |
| C01            | M   | 54  | Kidney        | Transitional cell carcinoma                 | II     | T1N0M0 |
| C02            | M   | 69  | Kidney        | Clear cell carcinoma                        | null   | T2N0M0 |
| C03            | F   | 79  | Kidney        | Transitional cell carcinoma                 | II     | T2N0M0 |
| C04            | M   | 61  | Kidney        | Mucinous tubular and spindle cell carcinoma | null   | T2N0M0 |
| C05            | F   | 55  | Kidney        | Granular cell carcinoma                     | null   | T2N0M0 |
| C06            | M   | 64  | Kidney        | Transitional cell carcinoma                 | II~III | T3N1M0 |
| C07            | F   | 64  | Kidney        | Clear cell carcinoma                        | null   | T1N0M0 |
| C08            | F   | 51  | Kidney        | Clear cell carcinoma                        | null   | T1N0M0 |



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|     |   |    |        |                                              |        |        |
|-----|---|----|--------|----------------------------------------------|--------|--------|
| C09 | M | 72 | Kidney | Squamous cell carcinoma                      | II     | T1N0M0 |
| C10 | F | 52 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| C11 | M | 49 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| C12 | M | 62 | Kidney | Transitional cell carcinoma                  | III    | T1N0M0 |
| C13 | M | 55 | Kidney | Transitional cell carcinoma                  | II~III | T1N0M0 |
| C14 | F | 64 | Kidney | Papillary renal cell carcinoma               | null   | T3N0M0 |
| C15 | F | 76 | Kidney | Granular cell carcinoma                      | null   | T1N0M0 |
| D01 | M | 54 | Kidney | Transitional cell carcinoma                  | II     | T1N0M0 |
| D02 | M | 69 | Kidney | Clear cell carcinoma                         | null   | T2N0M0 |
| D03 | F | 79 | Kidney | Transitional cell carcinoma                  | II     | T2N0M0 |
| D04 | M | 61 | Kidney | Mucinous tubular and spindle cell carcinoma  | null   | T2N0M0 |
| D05 | F | 55 | Kidney | Granular cell carcinoma                      | null   | T2N0M0 |
| D06 | M | 64 | Kidney | Transitional cell carcinoma                  | II~III | T3N1M0 |
| D07 | F | 64 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| D08 | F | 51 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| D09 | M | 72 | Kidney | Squamous cell carcinoma                      | II     | T1N0M0 |
| D10 | F | 52 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| D11 | M | 49 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| D12 | M | 62 | Kidney | Transitional cell carcinoma                  | III    | T1N0M0 |
| D13 | M | 55 | Kidney | Transitional cell carcinoma                  | II~III | T1N0M0 |
| D14 | F | 64 | Kidney | Papillary renal cell carcinoma               | null   | T3N0M0 |
| D15 | F | 76 | Kidney | Granular cell carcinoma                      | null   | T1N0M0 |
| E01 | M | 34 | Kidney | Chromophobe renal cell carcinoma             | null   | T1N0M0 |
| E02 | M | 47 | Kidney | Transitional cell carcinoma                  | III    | T2N0M0 |
| E03 | M | 60 | Kidney | Granular cell carcinoma                      | null   | T2N1M0 |
| E04 | F | 56 | Kidney | Carcinoma of the collecting ducts of Bellini | null   | T1N0M0 |
| E05 | M | 76 | Kidney | Granular cell carcinoma                      | null   | T1N0M0 |
| E06 | F | 67 | Kidney | Papillary renal cell carcinoma               | null   | T1N0M0 |
| E07 | M | 51 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| E08 | F | 44 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| E09 | M | 60 | Kidney | Papillary renal cell carcinoma               | null   | T1N1M0 |
| E10 | M | 43 | Kidney | Granular cell carcinoma                      | null   | T1N0M0 |
| E11 | M | 56 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| E12 | F | 38 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| E13 | M | 55 | Kidney | Clear cell carcinoma                         | null   | T2N0M0 |
| E14 | M | 43 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| E15 | F | 68 | Kidney | Transitional cell carcinoma                  | II     | T1N0M0 |
| F01 | M | 34 | Kidney | Chromophobe renal cell carcinoma             | null   | T1N0M0 |
| F02 | M | 47 | Kidney | Transitional cell carcinoma                  | III    | T2N0M0 |
| F03 | M | 60 | Kidney | Granular cell carcinoma                      | null   | T2N1M0 |
| F04 | F | 56 | Kidney | Carcinoma of the collecting ducts of Bellini | null   | T1N0M0 |
| F05 | M | 76 | Kidney | Granular cell carcinoma                      | null   | T1N0M0 |
| F06 | F | 67 | Kidney | Papillary renal cell carcinoma               | null   | T1N0M0 |
| F07 | M | 51 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| F08 | F | 44 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| F09 | M | 60 | Kidney | Papillary renal cell carcinoma               | null   | T1N1M0 |
| F10 | M | 43 | Kidney | Granular cell carcinoma                      | null   | T1N0M0 |
| F11 | M | 56 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| F12 | F | 38 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| F13 | M | 55 | Kidney | Clear cell carcinoma                         | null   | T2N0M0 |
| F14 | M | 43 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| F15 | F | 68 | Kidney | Transitional cell carcinoma                  | II     | T1N0M0 |
| G01 | F | 42 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| G02 | F | 23 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| G03 | F | 81 | Kidney | Transitional cell carcinoma                  | III    | T2N0M0 |
| G04 | M | 56 | Kidney | Chromophobe renal cell carcinoma             | null   | T1N0M0 |
| G05 | F | 60 | Kidney | Transitional cell carcinoma                  | II     | T1N0M0 |
| G06 | M | 58 | Kidney | Papillary renal cell carcinoma               | null   | T1N0M0 |
| G07 | F | 57 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| G08 | M | 44 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |
| G09 | M | 54 | Kidney | Clear cell carcinoma                         | null   | T1N0M0 |



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|     |   |    |        |                                              |      |        |
|-----|---|----|--------|----------------------------------------------|------|--------|
| G10 | F | 61 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| G11 | M | 33 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| G12 | M | 75 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| G13 | F | 52 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| G14 | M | 54 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| G15 | M | 45 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H01 | F | 42 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H02 | F | 23 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H03 | F | 81 | Kidney | Transitional cell carcinoma                  | III  | T2N0M0 |
| H04 | M | 56 | Kidney | Chromophobe renal cell carcinoma             | null | T1N0M0 |
| H05 | F | 60 | Kidney | Transitional cell carcinoma                  | II   | T1N0M0 |
| H06 | M | 58 | Kidney | Papillary renal cell carcinoma               | null | T1N0M0 |
| H07 | F | 57 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H08 | M | 44 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H09 | M | 54 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H10 | F | 61 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| H11 | M | 33 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| H12 | M | 75 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| H13 | F | 52 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| H14 | M | 54 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| H15 | M | 45 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I01 | F | 73 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I02 | M | 51 | Kidney | Transitional cell carcinoma                  | II   | T1N0M0 |
| I03 | M | 75 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I04 | F | 68 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I05 | F | 79 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I06 | M | 44 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| I07 | F | 64 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I08 | F | 49 | Kidney | Carcinoma of the collecting ducts of Bellini | null | T1N0M0 |
| I09 | F | 61 | Kidney | Squamous cell carcinoma                      | I    | T1N0M0 |
| I10 | F | 53 | Kidney | Mucinous tubular and spindle cell carcinoma  | null | T1N0M0 |
| I11 | M | 36 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I12 | M | 77 | Kidney | Clear cell carcinoma                         | null | T1N2M0 |
| I13 | M | 27 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| I14 | M | 82 | Kidney | Papillary renal cell carcinoma               | null | T1N0M0 |
| I15 | M | 46 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J01 | F | 73 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J02 | M | 51 | Kidney | Transitional cell carcinoma                  | II   | T1N0M0 |
| J03 | M | 75 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J04 | F | 68 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J05 | F | 79 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J06 | M | 44 | Kidney | Clear cell carcinoma                         | null | T2N0M0 |
| J07 | F | 64 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J08 | F | 49 | Kidney | Carcinoma of the collecting ducts of Bellini | null | T1N0M0 |
| J09 | F | 61 | Kidney | Squamous cell carcinoma                      | I    | T1N0M0 |
| J10 | F | 53 | Kidney | Mucinous tubular and spindle cell carcinoma  | null | T1N0M0 |
| J11 | M | 36 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J12 | M | 77 | Kidney | Clear cell carcinoma                         | null | T1N2M0 |
| J13 | M | 27 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |
| J14 | M | 82 | Kidney | Papillary renal cell carcinoma               | null | T1N0M0 |
| J15 | M | 46 | Kidney | Clear cell carcinoma                         | null | T1N0M0 |

**Notes:** Bake at 60C for ~60 minutes before use. If antigen retrieving is needed, it is important to avoid **direct-boiling and high pH or high strength** antigen retrieving buffer.



**Certified by:** Langxing Pan, M.D.

## **TNM Classification: Kidney carcinoma**

### **T- Primary tumor**

TX - Primary tumor cannot be assessed

TO - No evidence of primary tumor

T1 - Tumor 7.0 cm or less in greatest dimension, limited to the kidney

T2 - Tumor more than 7.0 cm, limited to the kidney

T3 - Tumor extends into major veins or invades adrenal gland or perinephric tissue but not beyond Gerota fascia

T4 - Tumor invades beyond Gerota fascia

### **N - Regional lymph nodes**

NX - Regional lymph nodes cannot be assessed

NO - No regional lymph node metastasis

N1 - Metastasis in a single regional lymph node

N2 - Metastasis in more than one regional lymph nodes

### **M - Distant metastasis**

MX - Distant metastasis cannot be assessed

MO - No distant metastasis

M1 - Distant metastasis

TNM classification of malignant tumours, Fifth Edition (1997)