**Supplemental Digital Content (SDC)**

**Table S1.** Patient demographics according to original disease

| IgA nephropathy type | Recurrent | Others | Total | P-value |
|----------------------|-----------|--------|-------|---------|
| **No. of patients**  | 28        | 86     | 114   |         |
| Recipient age at time of transplantation (years) | 30.3±7.9 | 35.7±9.2 |       | 0.007   |
| Recipient sex, Male:Female | 23:5     | 70:16  | 93:21 | >0.999  |
| Donor age at time of transplantation (years)   | 40.5±11.9| 33.5±10.5|       | 0.004   |
| Donor sex, Male:Female | 16:12    | 58:28  |       | 0.365   |
| Type of donor, living related:living unrelated:deceased | 21:7:0  | 42:42:2|       | 0.054   |
| Degree of HLA matching in related donor, 2-haplo match:1-haplo match:zero-haplo match | 1:20:0 | 13:29:0 | 63 | 0.007 |
| No. of HLA mismatches in unrelated donor       | 2.50     | 2.66   | 51    | 0.674   |
| ABO blood type matching, identical:compatible | 19:9     | 72:14  |       | 0.065   |
| Time to biopsy (months)                        | 69.7±48.9| 70.7±44.3|       | 0.921   |
| Biopsy indication, elevated Cr:proteinuria:hematuria | 11:13:4 | 31:32:20|       | 0.659   |
| Serum creatinine level at biopsy (mg/dl)       | 2.35±1.88| 1.73±0.77|       | 0.100   |
| Proteinuria at biopsy by 24-h urine collection (g/24 h) | 1885±2188 | 1629±2156 |       | 0.599   |
**Table S2.** Crescents and clinical findings

| Crescents grade | 0    | 1    | 2    | P-value |
|-----------------|------|------|------|---------|
| No. of biopsies | 110  | 13   | 2    |         |
| Serum creatinine level (mg/dL) | 1.86±0.93 | 2.13±0.64 | 6.65±6.29 | <0.001 |
| eGFR (mL/min/1.73m⁷) | 51.4±21.7 | 38.4±11.3 | 15.1±13.7 | 0.008   |
| Proteinuria (mg/24 h) | 1549.4±1731.4 | 2739.7±2272.2 | 8906.5±9932.7 | <0.001 |
### Table S3. Glomerular injury score and clinical findings

| Glomerular injury score (GIS) | 0-1   | 2-3   | 4-5   | P-value |
|-------------------------------|-------|-------|-------|---------|
| No. of biopsies               | 40    | 62    | 23    |         |
| Serum creatinine level (mg/dL)| 1.51±0.60 | 2.04±1.03 | 2.54±2.01 | 0.003   |
| eGFR (mL/min/1.73m²)         | 60.1±18.8 | 46.3±21.4 | 39.7±19.4 | 0.010   |
| Proteinuria (mg/24 h)        | 934.3±1560.8 | 2128.6±2514.5 | 2406.2±1976.3 | <0.001   |
Table S4. Haas classification and clinical findings

| Haas classification | 1     | 2     | 3     | 4     | 5     | P-value |
|---------------------|-------|-------|-------|-------|-------|---------|
| No. of biopsies     | 34    | 19    | 36    | 8     | 28    |         |
| Serum creatinine level (mg/dL) | 1.63±0.66 | 2.13±0.62 | 1.57±0.58 | 2.39±1.13 | 2.62±2.10 | 0.003   |
| eGFR (mL/min/1.73m²) | 56.0±19.6 | 40.9±16.2 | 56.8±20.2 | 40.2±23.0 | 40.7±22.9 | 0.002   |
| Proteinuria (mg/24 h) | 738.9±1388.0 | 2194.7±1974.3 | 2333.1±2845.8 | 2576.4±2637.8 | 1943.3±1850.4 | 0.018   |
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**Figure S1.** Graft survival according to glomerulitis, mesangial matrix increase, or arterial intimal thickening. The graft survival rate showed no significant correlation with glomerulitis (Fig. S1A), mesangial matrix increase (Fig. S1B), or arterial intimal thickening (Fig. S1C).
Figure S1A. Graft survival rate according to glomerulitis (“g”)

| P-value | g 0 | g 1 | g 2 | g 3 |
|---------|-----|-----|-----|-----|
| g 0     |     |     |     |     |
| g 1     | 0.975 |
| g 2     | 0.208 | 0.808 |
| g 3     | <0.001 | 0.480 | 0.317 |
Figure S1B. Graft survival rate according to mesangial matrix increase ("mm")
Figure S1C. Graft survival rate according to arterial intimal thickening (“cv”)