

Supplementary Table 1. Patients' characteristics.

| # | Age (years) | Sex | DM Type | Ocular Diagnosis | Lens status | Previous vitrectomy | Previous anti-VEGF treatment | Previous PRP treatment | Readout |
|----|-------------|-----|---------|------------------|--------------|---------------------|------------------------------|------------------------|--------------|
| 1 | 40 | M | I | PDR | phakic | no | no | yes | RNA-Seq |
| 2 | 35 | M | I | PDR | phakic | no | no | yes | RNA-Seq |
| 3 | 29 | M | I | PDR | phakic | yes | > 3 months | yes | RNA-Seq |
| 4 | 29 | F | I | PDR | phakic | no | no | no | RNA-Seq |
| 5 | 56 | M | II | PDR | phakic | no | no | no | RNA-Seq |
| 6 | 20 | F | I | PDR | phakic | no | no | yes | RNA-Seq |
| 7 | 60 | M | I | PDR | pseudophakic | no | > 3 months | yes | RNA-Seq |
| 8 | 32 | F | I | PDR | phakic | no | no | yes | IHC |
| 9 | 29 | F | I | PDR | phakic | no | 4 days prior to surgery | yes | IHC |
| 10 | 29 | M | I | PDR | pseudophakic | yes | no | yes | IMC |
| 11 | 58 | F | II | PDR | phakic | no | no | yes | IMC |
| 12 | 45 | F | II | PDR | phakic | no | no | no | IMC |
| 13 | 52 | F | II | PDR | phakic | no | no | yes | IMC |
| 14 | 33 | M | I | PDR | phakic | no | > 3 months | yes | IMC |
| 15 | 86 | M | II | PDR | pseudophakic | no | no | yes | Cell culture |
| 16 | 52 | F | I | PDR | phakic | no | no | yes | Cell culture |
| 17 | 37 | M | I | PDR | phakic | no | > 3 months | yes | Cell culture |
| 18 | 73 | M | II | PDR | phakic | no | > 3 months | yes | Cell culture |
| 19 | 40 | F | II | PDR | phakic | no | > 3 months | yes | Cell culture |
| 20 | 71 | M | - | MP | phakic | no | no | no | RNA-Seq |
| 21 | 83 | M | - | MP | pseudophakic | no | no | no | RNA-Seq |
| 22 | 79 | M | - | MP | phakic | no | no | no | RNA-Seq |
| 23 | 66 | F | - | MP | phakic | no | no | no | RNA-Seq |
| 24 | 72 | F | - | MP | phakic | no | no | no | RNA-Seq |
| 25 | 62 | M | - | MP | pseudophakic | no | no | no | RNA-Seq |
| 26 | 62 | M | - | MP | phakic | no | no | no | RNA-Seq |
| 27 | 75 | M | - | MP | phakic | no | no | no | RNA-Seq |
| 28 | 70 | F | - | MP | pseudophakic | no | no | no | RNA-Seq |
| 29 | 69 | M | - | MP | phakic | no | no | no | RNA-Seq |
| 30 | 77 | M | - | MP | pseudophakic | no | no | no | IHC |
| 31 | 77 | M | - | MP | phakic | no | no | no | IHC |
| 32 | 64 | F | - | MP | phakic | no | no | no | IMC |
| 33 | 68 | M | - | MP | phakic | no | no | no | IMC |
| 34 | 74 | M | - | MP | pseudophakic | no | no | no | IMC |
| 35 | 65 | F | - | MH | phakic | no | no | no | RNA-Seq |
| 36 | 69 | M | - | MH | phakic | no | no | no | RNA-Seq |
| 37 | 79 | F | - | MH | pseudophakic | no | no | no | RNA-Seq |
| 38 | 67 | F | - | MH | phakic | no | no | no | RNA-Seq |
| 39 | 67 | M | - | MH | phakic | no | no | no | RNA-Seq |
| 40 | 61 | F | - | MH | phakic | no | no | no | RNA-Seq |
| 41 | 66 | F | II | MH | pseudophakic | no | no | no | RNA-Seq |
| 42 | 80 | F | - | MH | pseudophakic | no | no | no | IHC |
| 43 | 77 | F | - | MH | pseudophakic | no | no | no | IHC |

DM, diabetes mellitus. VEGF, vascular endothelial growth factor. PRP, panretinal photocoagulation. PDR, proliferative diabetic retinopathy. MP, macular pucker. MH, macular hole. IHC, immunohistochemistry. IMC, Imaging Mass Cytometry.