**S1 Table. Primers for cDNA cloning and qPCR analysis.**

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| **Primers** | **Sequences (5′ to 3′)** |
| **For cDNA cloning** |
| pAR-FLAG F | CAGGGGCTGGCGGGCCAGGAAAGCGACTTCACCGCACCTGATGTGTGGTACCCTGGCGGCATGGTGAGCA |
| pAR-FLAG R | GCACTGGGTGTGGAAATAGATGGGCTTGACTTTCCCAGAAAGG |
| pHA-AR F | CGCGTCGACTCAGGGGCTGGCGGGCCAGGAAA |
| pHA-AR R | CGCAGATCTTCACTGGGTGTGGAAATAGATGGGC |
| AR-pcDNA3.1(+)-HA F | CGCGGATCCCCCACCATGTACCCATACGATGTTC |
| AR-pcDNA3.1(+)-HA R | CGCCTCGAGTCACTGGGTGTGGAAATAGATGGGC |
| pSRC-FLAG F | CGCCTCGAGGCCACCATGGGTAGCAACAAGAGCAAGCC |
| pSRC-FLAG R | CGCGAATTCACGAGGTTCTCCCCGGGCTGGTACT |
| pEphA2-copGFP F | GCTCTAGAACCATGGATGGAGCTCCAGGCAGCCCGCGCCTGCTTCG |
| pEphA2-copGFP R | CGGGATCCCCACAGTGTTCACCTGGTCCTTGAGTCC |
| pRSK1-HA F | CGGAATTCGCCACCATGGGGATGCCGCTCGCCCAG |
| pRSK1-HA R | CCGCTCGAGTCACAGGGTGGTGGATGGCAACTTCCT |
| pGEX-4T-1-EC-EphA2F | ATGGAGCTCCAGGCAGCCCGCGCCTGCTTCG |
| pGEX-4T-1-EC-EphA2R | GCTGCCGGCCCCCTGGCCCTCCTGCGT |
| pGEX-4T-1-EC-TM-EphA2F | ATGGAGCTCCAGGCAGCCCGCGCCTGCTTCG |
| pGEX-4T-1-EC-TM-EphA2R | GATAAAGAAGCCAACTCCTGCCAGC |
| pGEX-4T-1-KD-EphA2F | ATGACTCGGCAGAAGGTGATCGGAGCA |
| pGEX-4T-1-KD-EphA2R | CAGGATGCTGACGATGTCAGCGA |
| pHSV1-UL30-C-F | CGCCTCGAGGTGCGAAAAGACGTTCACCAAGCTG |
| pHSV1-UL30-C-R | CGCGAATTCCGACGAGTTTCCTCCGCCGTAG |
| **For qPCR analysis** |
| qPCR-LANA F | CCTGGAAGTCCCACAGTGTT |
| qPCR-LANA R | AGACACAGGATGGGATGGAG |
| qPCR-RTA F | AGACCCGGCGTTTATTAGTACGT |
| qPCR-RTA R | CAGTAATCACGGCCCCTTGA |
| qPCR-PAN F | GCCGCTTCTGGTTTTCATTG |
| qPCR-PAN R | TTGCCAAAAGCGACGCA |
| qPCR-POV1 F | AGTGCTGTGTTCGCCTTG |
| qPCR-POV1 R | CACCTCAGAGCCGCTAAG |
| qPCR-NCOA2 F | GCTGGGAGGACCTGGTAAGA |
| qPCR-NCOA2 R | ATTTGACTGAATGCCAATCCT |
| qPCR-PSA F | CACCTGCTCGGGTGATTCTG |
| qPCR-PSA R | CCACTTCCGGTAATGCACCA  |
| qPCR-UL30-F | AGAGGGACATCCAGGACTTTGT |
| qPCR-UL30-R | CAGGCGCTTGTTGGTGTAC |