

| Plate | Position | Catalog No. of Primer | Accession No. of Gene | Symbol |
|----------|----------|--------------------------|--------------------------|--------|
| QG059-01 | A01 | HQP001215 | NM_181799 | UBE2C |
| QG059-01 | A02 | HQP001217 | NM_181801 | UBE2C |
| QG059-01 | A03 | HQP007187 | NM_033484 | FBXO4 |
| QG059-01 | A04 | HQP012195 | NM_013988 | PARK2 |
| QG059-01 | A05 | HQP009026 | NM_000194 | HPRT1 |
| QG059-01 | A06 | HQP001203 | NM_007013 | WWP1 |
| QG059-01 | A07 | HQP018485 | NM_000551 | VHL |
| QG059-01 | A08 | HQP005973 | NM_015255 | UBR2 |
| QG059-01 | A09 | HQP004660 | NM_174916 | UBR1 |
| QG059-01 | A10 | HQP000338 | NM_006048 | UBE4B |
| QG059-01 | A11 | HQP017382 | NM_023079 | UBE2Z |
| QG059-01 | A12 | HQP014272 | NM_018299 | UBE2W |
| QG059-01 | B01 | HQP008400 | NM_014176 | UBE2T |
| QG059-01 | B02 | HQP013865 | NM_017811 | UBE2R2 |
| QG059-01 | B03 | HQP014486 | NM_017582 | UBE2Q1 |
| QG059-01 | B04 | HQP018383 | NM_003348 | UBE2N |
| QG059-01 | B05 | HQP021936 | NM_003969 | UBE2M |
| QG059-01 | B06 | HQP018381 | NM_003347 | UBE2L3 |
| QG059-01 | B07 | HQP008834 | NM_005339 | HIP2 |
| QG059-01 | B08 | HQP054042 | NM_194458 | UBE2J2 |
| QG059-01 | B09 | HQP012761 | NM_016021 | UBE2J1 |
| QG059-01 | B10 | HQP018379 | NM_003345 | UBE2I |
| QG059-01 | B11 | HQP018376 | NM_182688 | UBE2G2 |
| QG059-01 | B12 | HQP018373 | NM_003342 | UBE2G1 |
| QG059-01 | C01 | HQP000577 | NM_006357 | UBE2E3 |
| QG059-01 | C02 | HQP018372 | NM_152653 | UBE2E2 |
| QG059-01 | C03 | HQP018369 | NM_181893 | UBE2D3 |
| QG059-01 | C04 | HQP018366 | NM_181838 | UBE2D2 |
| QG059-01 | C05 | HQP018364 | NM_003338 | UBE2D1 |
| QG059-01 | C06 | HQP001218 | NM_181803 | UBE2C |
| QG059-01 | C07 | HQP014208 | NM_018227 | UBE1L2 |
| QG059-01 | C08 | HQP021932 | NM_003968 | UBE1C |
| QG059-01 | C09 | HQP000071 | NM_005499 | SAE2 |
| QG059-01 | C10 | HQP018357 | NM_003334 | UBE1 |
| QG059-01 | C11 | HQP018175 | NM_000546 | TP53 |
| QG059-01 | C12 | HQP010193 | NM_199129 | Kua |
| QG059-01 | D01 | HQP017122 | NM_022739 | SMURF2 |
| QG059-01 | D02 | HQP015449 | NM_020429 | SMURF1 |
| QG059-01 | D03 | HQP017300 | NM_005983 | SKP2 |
| QG059-01 | D04 | HQP017289 | NM_006930 | SKP1A |
| QG059-01 | D05 | HQP000072 | NM_005500 | SAE1 |

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| QG059-01 | D06 | HQP016673 | NM_022064 | RNF123 |
| QG059-01 | D07 | HQP012193 | NM_004562 | PARK2 |
| QG059-01 | D08 | HQP005770 | NM_015089 | PARC |
| QG059-01 | D09 | HQP021668 | NM_003905 | APPBP1 |
| QG059-01 | D10 | HQP015685 | NM_020774 | MIB1 |
| QG059-01 | D11 | HQP011135 | NM_002392 | MDM2 |
| QG059-01 | D12 | HQP013642 | NM_017824 | 5-Mar |
| QG059-01 | E01 | HQP000096 | NM_031407 | HUWE1 |
| QG059-01 | E02 | HQP015673 | NM_020760 | HECW2 |
| QG059-01 | E03 | HQP005726 | NM_015052 | HECW1 |
| QG059-01 | E04 | HQP000620 | NM_031456 | FBXW10 |
| QG059-01 | E05 | HQP007186 | NM_012176 | FBXO4 |
| QG059-01 | E06 | HQP007188 | NM_012175 | FBXO3 |
| QG059-01 | E07 | HQP023052 | NM_014648 | DZIP3 |
| QG059-01 | E08 | HQP004111 | NM_001923 | DDB1 |
| QG059-01 | E09 | HQP023238 | NM_014780 | CUL7 |
| QG059-01 | E10 | HQP019709 | NM_003478 | CUL5 |
| QG059-01 | E11 | HQP020764 | NM_003588 | CUL4B |
| QG059-01 | E12 | HQP020774 | NM_003589 | CUL4A |
| QG059-01 | F01 | HQP020782 | NM_003590 | CUL3 |
| QG059-01 | F02 | HQP020788 | NM_003591 | CUL2 |
| QG059-01 | F03 | HQP020798 | NM_003592 | CUL1 |
| QG059-01 | F04 | HQP023443 | NM_004359 | CDC34 |
| QG059-01 | F05 | HQP021430 | NM_005188 | CBL |
| QG059-01 | F06 | HQP021753 | NM_033637 | BTRC |
| QG059-01 | F07 | HQP018988 | NM_024332 | BRCC3 |
| QG059-01 | F08 | HQP017713 | NM_007294 | BRCA1 |
| QG059-01 | F09 | HQP015946 | NM_000465 | BARD1 |
| QG059-01 | F10 | HQP000641 | NM_006395 | ATG7 |
| QG059-01 | F11 | HQP006752 | NM_005744 | ARIH1 |
| QG059-01 | F12 | HQP008560 | NM_013366 | ANAPC2 |
| QG059-01 | G01 | HQP018371 | NM_182666 | UBE2E1 |
| QG059-01 | G02 | HQP018378 | NM_182697 | UBE2H |
| QG059-01 | G03 | HQP012810 | NM_001002244 | ANAPC11 |
| QG059-01 | G04 | HQP019258 | NM_024735 | FBXO31 |
| QG059-01 | G05 | HQP007682 | NM_014501 | UBE2S |
| QG059-01 | G06 | HQP011745 | NM_006156 | NEDD8 |
| QG059-01 | G07 | HQP016911 | NM_022457 | RFWD2 |
| QG059-01 | G08 | HQP010064 | NM_198085 | RNF148 |
| QG059-01 | G09 | HQP020731 | NM_172230 | SYVN1 |
| QG059-01 | G10 | HQP019348 | NM_198329 | UBE1DC1 |
| QG059-01 | G11 | HQP018359 | NM_003336 | UBE2A |
| QG059-01 | G12 | HQP018363 | NM_003337 | UBE2B |

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| QG059-01 | H01 | HGDC | | |
| QG059-01 | H02 | HGDC | | |
| QG059-01 | H03 | HQP006940 | NM_002046 | GAPDH |
| QG059-01 | H04 | HQP016381 | NM_001101 | ACTB |
| QG059-01 | H05 | HQP015171 | NM_004048 | B2M |
| QG059-01 | H06 | HQP006171 | NM_012423 | RPL13A |
| QG059-01 | H07 | HQP009026 | NM_000194 | HPRT1 |
| QG059-01 | H08 | HQP054253 | NR_003286 | RN18S1 |
| QG059-01 | H09 | RT | | |
| QG059-01 | H10 | RT | | |
| QG059-01 | H11 | PCR | | |
| QG059-01 | H12 | PCR | | |