|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene** | **GenBank Accession**  **(PrimerBank ID)** | **Primer sequence (5'-3')** | **Amplicon size (bp)** | |
| **TPRC channels** |  |  |  |  |
| TRPC1\* | NM\_011643 | Forward: GTCGCACCTGTTATTTTAGCTGC | 82 | |
|  | (2052504a1) | Reverse: TGGGCAAAGACACATCCTGC |  | |
| TRPC2 | NM\_011644 | Forward: AACTCGGCTACCAAGAGCAA | 120 | |
|  |  | Reverse: CTTCACAGGAGCCATCGGAC |  | |
| TRPC3\* | NM\_019510 | Forward: TCGAGAGGCCACACGACTA | 136 | |
|  | (26328139a1) | Reverse: CTGGACAGCGACAAGTATGC |  | |
| TRPC4\* | NM\_016984 | Forward: CCAGAGCGAAGGTAATGGCAA | 112 | |
|  | (8394487a1) | Reverse: GCTTAGGTTATGTCTCTCGGAGG |  | |
| TRPC5 | NM\_009428 | Forward: TACCAATGTGAAGGCCCGAC | 144 | |
|  |  | Reverse: GCATGATCGGCAATGAGCTG |  | |
| TRPC6\* | NM\_013838 | Forward: AGCCAGGACTATTTGCTGATGG | 152 | |
|  | (7305597a1) | Reverse: AACCTTCTTCCCTTCTCACGA |  | |
| **TRPV channels** |  |  |  |  |
| TRPV1\* | NM\_001001445 | Forward: CCACTGGTGTTGAGACGCC | 151 | |
|  | (47825363c2) | Reverse: TCTGGGTCTTTGAACTCGCTG |  | |
| TRPV2 | NM\_011706 | Forward: GTTTGACCGTGACCGACTCT | 123 | |
|  |  | Reverse: GAGCCTTCTGTGTATGCCGA |  | |
| TRPV4 | NM\_022017 | Forward: TCAAGCGCAGATGAAGTGGT | 190 | |
|  |  | Reverse: AAGACACCGGACAAATGCCT |  | |
| **TRPM channels** |  |  |  |  |
| TRPM1 | NM\_018752 | Forward: ATGTGGGCTGCTCCTCTTAAA | 216 | |
|  |  | Reverse: GAGCTGACCACAGCAACATCT |  | |
| TRPM2\* | NM\_138301 | Forward: CTTTGGGGTGCAGTCAAGGAG | 137 | |
|  | (31083376a1) | Reverse: TCCATGAGCTAAGGTTTTCTTGC |  | |
| TRPM3\* | NM\_177341 | Forward: GTGCAGCCAGATGTTACTTACT | 155 | |
|  | (28893475a1) | Reverse: GGGCCTGAGTCATATAGGGCA |  | |
| TRPM4 | NM\_175130 | Forward: TCAACCCCAAGGGCTCATTC | 116 | |
|  |  | Reverse: GGTGCCATCATCCACCAAGA |  | |
| TRPM6 | NM\_153417 | Forward: GACCGGCCAATTTAGGGGAA | 144 | |
|  |  | Reverse: GCCCAAATCCCAAGTTGCAG |  | |
| TRPM7\* | NM\_021450 | Forward: AGGATGTCAGATTTGTCAGCAAC | 128 | |
|  | (10946830a1) | Reverse: CCTGGTTAAAGTGTTCACCCAA |  | |
| **TRPP channels** |  |  |  |  |
| TRPP1\* | NM\_013630 | Forward: ATGTGTGGATCGGCTTCTCAT | 202 | |
| (PKD1) | (124487379c3) | Reverse: CGCAGCTCGCAGACATAACTA |  | |
| TRPP2\* | NM\_008861 | Forward: GGATCATTGCGTCGTACAGTG | 152 | |
| (PKD2) | (164519056c3) | Reverse: TGCGTTATACACCGAGAAGTCTA |  | |
| **Reference genes** | |  |  |  |
| ACTB\* | NM\_007393 | Forward: GGCTGTATTCCCCTCCATCG | 154 | |
|  | (6671509a1) | Reverse: CCAGTTGGTAACAATGCCATGT |  | |
| GAPDH | NM\_008084 | Forward: GGTTGTCTCCTGCGACTTCAA | 130 | |
|  |  | Reverse: CCTGTTGCTGTAGCCGTATTCAT |  | |
| PPIA\* | NM\_008907 | Forward: GAGCTGTTTGCAGACAAAGTTC | 125 | |
|  | (6679439a1) | Reverse: CCCTGGCACATGAATCCTGG |  | |

**Appendix 2.** Quantitative RT-PCR primers for amplification of TRP channels and reference genes. Information of some primer sequences was obtained from PrimerBank [51] and the primers are indicated by an asterisk (\*) with PrimerBank ID.