

一、RT-PCR 常用的内参引物

| 内参基因名称 | 引物名称 | 序列 | 引物位置 | 引物 Tm | 最佳退火温度 C | 扩增长度 |
|------------------|-------|-----------------------|-----------|-------|----------|------|
| Human actin beta | F305 | ctgggacgacatggagaaaa | 305-324 | 52.3 | 59.4 | 564 |
| BC002409 | R868 | aaggaaggctggaagagtgc | 868-849 | 52.6 | | |
| | F1379 | agcgagcatccccaaagt | 1379-1398 | 57.3 | | |
| | R1663 | gggcacgaaggctcatcatt | 1663-1644 | 56.3 | 54 | 285 |
| Rat actin beta | F18 | caccgcgagtagaaccttc | 18-37 | 54.5 | 60.4 | 207 |
| NM_031144 | R224 | cccatacccaccatcacacc | 224-205 | 54.4 | | |
| | F694 | gagagggaaatcgtgcgtgac | 694-714 | 54 | | |
| | R1146 | catctgctggaaggtggaca | 1146-1127 | 53.2 | 57.1 | 452 |
| Mouse actin beta | F91 | atatcgtgcgctggtcgtc | 91-110 | 57.5 | 60.4 | 517 |
| NM_007393 | R607 | aggatggcgtgaggagagac | 607-588 | 57.8 | | |
| | F1566 | gtccctcacctccaaaag | 1566-1585 | 54.5 | | |
| | F1831 | gctgcctcaacacctcaacc | 1831-1811 | 54.4 | 55.7 | 266 |
| human GAPDH | F369 | agaaggctgggctcatttg | 369-388 | 55.6 | 57.5 | 258 |
| BC004109 | R626 | aggggcatccacagtcttc | 626-607 | 55.1 | | |
| | F66 | aggctggagtcaacggattg | 66-86 | 52.5 | | |
| | R597 | gtgatgcatggactgtggt | 597-578 | 52.6 | 57 | 532 |
| Rat GAPDH | F50 | cagtccagcctcgtctcat | 50-69 | 55 | 58.3 | 595 |
| BC059110 | R644 | aggggcatccacagtcttc | 644-625 | 55.1 | | |
| | F1029 | acagcaacagggtgtggac | 1029-1048 | 54.4 | | |
| | R1280 | tttaggggtgcagcgaactt | 1280-1261 | 54.8 | 57.7 | 252 |
| Mouse GAPDH | F306 | aggccggtgctgagtatgctc | 306-325 | 54 | 58.7 | 530 |
| M32599 | R835 | tgctgcttcaccacctct | 835-816 | 54.6 | | |
| | F49 | ggtgaaggctcgggtgaacg | 49-68 | 55.1 | | |
| | R281 | ctcgtcctggaagatggtg | 281-262 | 54.5 | 56.8 | 233 |
| Rat 18S rRNA | F1865 | tgcggaaggatcattaacgga | 1865-1886 | 58.6 | 59.3 | 300 |
| M11188 | R2164 | agtaggagaggagcagcgacc | 2164-2143 | 59 | | |
| human 18S rRNA | F1565 | cagccaccgagattgagca | 1565-1584 | 58.3 | | |
| M10098 | R1816 | tagtagcgacggcggtgtg | 1816-1797 | 58.3 | 59 | 253 |
| mouse 18S rRNA | F56 | aggggagagcgggtaagaga | 56-75 | 54.4 | 62 | 241 |
| K013364 | R296 | ggacaggactaggcggaaca | 296-277 | 54 | | |

二、常用的 beta-actin 内参引物

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|-----------|------|-------------|------------------------|
| 大鼠 432bp | A001 | rat actin f | TCAGGTCATCACTATCGGCAAT |
| | A002 | rat actin r | AAAGAAAGGGTGTAAAACGCA |
| 大鼠 150bp | A003 | rat actin f | CCCATCTATGAGGGTTACGC |
| | A004 | rat actin r | TTTAATGTCACGCACGATTTC |
| 人 205bp | A005 | h actin f | TGACGTGGACATCCGCAAAG |
| | A006 | h actin r | CTGGAAGGTGGACAGCGAGG |
| 人 434 bp | A007 | h actin f | CGGGAAATCGTGCGTGAC |
| | A008 | h actin r | TGGAAGGTGGACAGCGAGG |
| 小鼠 263 bp | A009 | m actin f | GAGACCTTCAACACCCCAGC |
| | A010 | m actin r | ATGTCACGCACGATTTCCC |
| 小鼠 446 bp | A011 | m actin f | GAGACCTTCAACACCCCAGC |
| | A012 | m actin r | CCACAGGATTCCATACCCAA |



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