|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Muestra | Par | Nombre del primer | Secuencia (5'-3') | Tm (Phusion) | Tamaño del amplicón (nt) |
| SP3 | 1 | SP3-1-F | CAGTCCACCGAAAGAAGGC | 63,3 | 203 |
| SP3-1-R | GCGACTCCTCTGGCTTGTAA | 64,5 |  |
| 2 | SP3-2-F | CACCGAAAGAAGGCCGGA | 64,7 | 190 |
| SP3-2-R | AAAATCCAATTGATGAACCACCCC | 64,8 |  |
| SP4 | 1 | SP4-1-F | TGTATCAGGCGGGTTTGGC | 65,3 | 200 |
| SP4-1-R | TGCACACGTTAGGTTAGGAAC | 63 |  |
| 2 | SP4-2-F | ATGACCAAGATCCGGGACTC | 63,9 | 284 |
| SP4-2-R | ACCCTGGACATGTATGAATCCA | 64 |  |
| SP13 | 1 | SP13-1-F | CCGGGCCGATCTTAATGGT | 64,6 | 747 |
| SP13-1-R | GTTTCCCCGCCATGAAGTC | 63,7 |  |
| 2 | SP13-2-F | CCGATCTTAATGGTCGGCCT | 64,5 | 735 |
| SP13-2-R | CGCCATGAAGTCGAAGACGA | 64,9 |  |
| SP19 | 1 | SP49\_HPgV\_9 | GCAGTAGGAATGCTCGTGTCC | 65,5 | 680 |
| SP19\_HPgV\_1 | CTCACACTCCGCCTTGGAAT | 64,9 |  |
| 2 | SP19\_HPgV\_2 | TGTCAGCTGGGCAAAAGTTC | 63,8 | 506 |
| SP19\_HPgV\_3 | GACCAATCGCAATCCACCTG | 64 |  |
| 3 | SP19\_HPgV\_4 | TGTTTCCATTGTTGACAAGCTC | 64,2 | 689 |
| SP19\_HPgV\_5 | GCATGATCCACTCCCACAAG | 63,5 |  |
| 4 | SP19-1-F-int | CACTCTGGTGGCAGGGTTAC | 65,1 | 639 |
| SP19-1-R-int | GGAATGGCAGAACACGAGAT | 62,9 |  |
| 5 | UTR-F | TTGGTAGCCACTATAGGTGGG | 63,7 | 593 |
| UTR-R | CCTGATACAGTGGCCAGCAT | 64,8 |  |
| SP20 | 1 | SP20\_HPgV\_1 | CTACGGGTTGACATGGCAGT | 64,9 | 578 |
| SP49\_HPgV\_4 | CTATTGACGAAGGGCACAGC | 63,6 |  |
| 2 | SP20\_HPgV\_3 | GTGGTTGAGTGCTGTGTGATG | 64,3 | 288 |
| SP20\_HPgV\_4 | ATCCTGAAAGACACCGATGAGA | 63,8 |  |
| 3 | SP20\_HPgV\_5 | GCTCGTGTCAGTGCTTCA | 62,5 | 758 |
| SP20\_HPgV\_6 | GGTCTCCGTCCTTGATGATG | 62,6 |  |
| 4 | SP20\_HPgV\_7 | TATGACGACTGCCCTTACACC | 64,3 | 1188 |
| SP20\_HPgV\_8 | ACCAAGTGGTAGTGCCAGAGTT | 66,4 |  |
| 5 | SP20-1-F-int | TGGCAGTCCTGCTCTTGTAG | 64,3 | 509 |
| SP20-1-R-int | CGATGGAAAGGGAATCTGACC | 63,2 |  |
| 6 | SP20-2-F-ext | TGCTTGGCCTCATACATCTG | 62,7 | 436 |
| SP20-2-R-ext | GATTCACATCCTGAAAGACACC | 61,7 |  |
| 7 | SP20-3-F-int | GCTTCATTCAGGTGGTAGGG | 62,9 | 728 |
| SP20-3-R-int | TGGAAGAGTCTTTCCCCCTA | 62,5 |  |
| 8 | UTR-F | TTGGTAGCCACTATAGGTGGG | 63,7 | 593 |
| UTR-R | CCTGATACAGTGGCCAGCAT | 64,8 |  |
| 9 | SP20-9-F | AGGTAGAGTTGGATGTGGCC | 64,2 | 302 |
| SP20-9-R | GACCTTGTGCCCCATGTTAC | 63,7 |  |
| 10 | SP20-10-F | CTATGGGAGGTTTCTGGCCA | 64,3 | 612 |
| SP20-10-R | TAGTAGTAGCGCCCAGACCT | 64,6 |  |
| 11 | SP20-11-F | CTCCTATACCCATGGCACCC | 64,4 | 760 |
| SP33–2-R | CCGTAGTGGCAGTGCATTAG | 63,4 |  |
| 12 | UTR-2-F | TAGCCACTATAGGTGGGTCTTAAG | 63,7 | 550 |
| UTR-2-R | TGATACAGTGGCCAGCAT | 61,3 |  |
| 13 | SP20-13-F | TGACTTCCGTGGCTCTTCTG | 64,5 | 266 |
| SP20-13-R | TGTGCCCCATGTTACCATACTC | 64,9 |  |
| 14 | SP20-14-F | CATCACACGGTGGGTCATCA | 65,2 | 500 |
| SP33-4-R | AGTGCATTAGCACCATCAGGC | 66,1 |  |
| SP30 | 1 | SP30\_HpgV\_1 | GTTGCTATGGTGCTGCTCTTC | 64,2 | 364 |
| SP30\_HPgV\_2 | GAACCTCATCACCACGTCTAGC | 65,2 |  |
| 2 | SP20\_HPgV\_7 | TATGACGACTGCCCTTACACC | 64,3 | 1080 |
| SP30\_HPgV\_3 | CATGAAGTCGAAGACGAGACTG | 63,2 |  |
| 3 | SP30-2-F-int | CGGCTGACATCGGTGAAG | 63 | 1046 |
| SP30-2-R-int | GAAGTCGAAGACGAGACTGG | 62,5 |  |
| SP33 | 1 | SP33-1-F | CTATTGGGAGCCGCTGGTA | 64 | 290 |
| SP33-1-R | GTGCCAGAGTTGTTAGCTGAG | 63,5 |  |
| 2 | SP33-2-F | GTTACCGCAGACACAACCAA | 63,4 | 505 |
| SP33-2-R | CCGTAGTGGCAGTGCATTAG | 63,4 |  |
| 3 | SP33-3-F | ACACCCGTCGTGGGGTTA | 65,8 | 257 |
| SP33-3-R | CCAGAGTTGTTAGCTGAGTACAAA | 63,5 |  |
| 4 | SP33-4-F | AGATGGAAGCCGGCAAGGTA | 66,7 | 470 |
| SP33-4-R | AGTGCATTAGCACCATCAGGC | 66,1 |  |
| SP49 | 1 | SP49\_HPgV\_1 | GGTGGGCAATGAACTTACCTTT | 64 | 505 |
| SP49\_HPgV\_2 | CTCCTTCCGGTCTTTGAAGAAC | 63,5 |  |
| 2 | SP49\_HPgV\_3 | AGTTCCATTTGACTTTTGGCGA | 63,8 | 729 |
| SP49\_HPgV\_4 | CTATTGACGAAGGGCACAGC | 63,6 |  |
| 3 | SP49\_HPgV\_5 | TATATCTGATGAAGCTGGCGGA | 63,7 | 484 |
| SP49\_HPgV\_6 | CCCTTACACCACGTTCTGTAGA | 64,2 |  |
| 4 | SP49\_HPgV\_7 | CCAAATCCTGTCCCACTATTGC | 64 | 967 |
| SP49\_HPgV\_8 | TAGCTGAGTACAAGACCAACCC | 64,3 |  |
| 5 | SP49\_HPgV\_9 | GCAGTAGGAATGCTCGTGTCC | 65,5 | 920 |
| SP49\_HPgV\_10 | GTCCTTGATGATGGAACTGTCTT | 63,2 |  |
| 6 | SP49\_int\_1 | TCCTGTCCCACTATTGCTGAG | 64,1 | 954 |
| SP49\_int\_2 | TACAAGACCAACCCCAGGGC | 66,9 |  |
| SP56 | 1 | SP56-1-F | ACGTGTGCAGTAGAGTGTGA | 63,8 | 474 |
| SP56-1-R | TGAGAGGGGCCACTGATTTT | 64,2 |  |
| 2 | SP56-2-F | TTTGGAGATGGACTGAACAGC | 63,1 | 403 |
| SP56-2-R | CAGTGGGTGATAGGGTCGC | 64,7 |  |
| SP58 | 1 | SP58-1-F | TCTGGAAAGTGCCGTTTGAC | 63,5 | 405 |
| SP58-1-R | AGCCATAGACATACTGGGGAC | 63,7 |  |
| 2 | UTR-F | TTGGTAGCCACTATAGGTGGG | 63,7 | 593 |
| UTR-R | CCTGATACAGTGGCCAGCAT | 64,8 |  |
| 3 | SP58-3-F | CCGTTTGACTTCTGGCGTGG | 66,3 | 375 |
| SP58-3-R | ACAAGAGAGGGGCCACTGATT | 66,2 |  |
| 4 | UTR-2-F | TAGCCACTATAGGTGGGTCTTAAG | 63,7 | 550 |
| UTR-2-R | TGATACAGTGGCCAGCAT | 61,3 |  |