**Supplementary 3 The target gene sequence for chemical synthesis and the primer sequence for identification of the recombinant plasmid.**

The vector for Spry1：GV141

Cloning site：XhoI / KpnI

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| **GV141-1** |

The target gene sequence of chemical synthesis.

CTCGAGCGCCACCATGGATTCCCCAAGTCAGCATGACAGCCACACTTCACTAGTGGTGATTCAGCCACCGGCTGTGGAAGGCCGGCAGAGGTTAGACTATGACAGGGACACCCAGCCTGCCACGATTCTGTCCCTAGACCAGATCAAAGCCATCAGAGGCAGCAATGAATACACAGAGGGACCTTCGGTAGCGAGAAGACCAACACAGTTTTCTTGGCATCTACTCACTGCCTTGTCCTTACAGCCCTCCGCAATCTCCCCACAATGCACTGTGCAGATGGGTCATCCCCGCACACAGCTCTGGATTCACTGTGCGGTGTTGGTCTTCACATCAGAGATGATGTTGGCAACCCTCCTTTCTCCTCCTCCAGCACCCAGTATCCGTGAAGGCCTTCCCTTCGCACCCCCCACTTCACTGAGGGGGCGCTTGGACACGGTAGTTGACATTCCTATCTCGGTACC

The primer sequence for identification.

|  |  |
| --- | --- |
| **ID** | **seq** |
| CMV-F | CGCAAATGGGCGGTAGGCGTG |
| pcDNA-SEQR | TTATTAGGAAAGGACAGTGGG |

PCR identification of recombinant clone

**1 2 3 4 5 6 7 8 9 10 11 12**

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| --- |
| **53012** |

电泳图说明：

1#：negative control（ddH2O）

2#：Negative control group (no load self connected control group)

3#：positive control（GAPDH）

4#：Marker: 5 kb，3 kb，2 kb，1.5 kb，1 Kb，750 bp，500 bp，250 bp，100 bp

5-12#:1-8 convertor.