**pSP105**

* **Source** Saul Purton, University College London
* **Plasmid** pSP105
* **Vector** pBluescribe (acc. no. L08785)
* **Host strain** DH5
* **Origin** promoter/5’UTR and 3’UTR of *C. reinhardtii RBCS2* gene cloned into polylinker to create basic expression vector.
* **Insert** See details below.
* **Selection** ampicillin resistant
* **References** Stevens DR, Rochaix JD, Purton S (1996).The bacterial phleomycin resistance gene *ble* as a dominant selectable marker in *Chlamydomonas*. *Mol Gen Genet.* 251:23-30. PMID: 8628243

**Map and sequence:**

::Desktop:pSP105 map.pdf

> Complete sequence of pSP105; 4228 bp

> ATG of RBCS2 in UPPERCASE, highlighted.

> EcoRI sites in blue.

gccctatagtgagtcgtattacaattcactggccgtcgttttacaacgtcgtgactgggaaaaccctggcgttacccaacttaatcgccttgcagcacatccccctttcgccagctggcgtaatagcgaagaggcccgcaccgatcgcccttcccaacagttgcgcagcctgaatggcgaatggcgcgacgcgccctgtagcggcgcattaagcgcggcgggtgtggtggttacgcgcagcgtgaccgctacacttgccagcgccctagcgcccgctcctttcgctttcttcccttcctttctcgccacgttcgccggctttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcacctcgaccccaaaaaacttgattagggtgatggttcacgtagtgggccatcgccctgatagacggtttttcgccctttgacgttggagtccacgttctttaatagtggactcttgttccaaactggaacaacactcaaccctatctcggtctattcttttgatttataagggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaatattaacgtttacaatttcctgatgcggtattttctccttacgcatctgtgcggtatttcacaccgcatatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagccccgacacccgccaacacccgctgacgcgccctgacgggcttgtctgctcccggcatccgcttacagacaagctgtgaccgtctccgggagctgcatgtgtcagaggttttcaccgtcatcaccgaaacgcgcgagacgaaagggcctcgtgatacgcctatttttataggttaatgtcatgataataatggtttcttagacgtcaggtggcacttttcggggaaatgtgcgcggaacccctatttgtttatttttctaaatacattcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaggaagagtatgagtattcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgtttttgctcacccagaaacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaagatccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatgtggcgcggtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactcaccagtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataaccatgagtgataacactgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttttttgcacaacatgggggatcatgtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgtagcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatagactggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttattgctgataaatctggagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactgattaagcattggtaactgtcagaccaagtttactcatatatactttagattgatttaaaacttcatttttaatttaaaaggatctaggtgaagatcctttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccactgagcgtcagaccccgtagaaaagatcaaaggatcttcttgagatcctttttttctgcgcgtaatctgctgcttgcaaacaaaaaaaccaccgctaccagcggtggtttgtttgccggatcaagagctaccaactctttttccgaaggtaactggcttcagcagagcgcagataccaaatactgtccttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcctacatacctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccgggttggactcaagacgatagttaccggataaggcgcagcggtcgggctgaacggggggttcgtgcacacagcccagcttggagcgaacgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcggacaggtatccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctggtatctttatagtcctgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggcggagcctatggaaaaacgccagcaacgcggcctttttacggttcctggccttttgctggccttttgctcacatgttctttcctgcgttatcccctgattctgtggataaccgtattaccgcctttgagtgagctgataccgctcgccgcagccgaacgaccgagcgcagcgagtcagtgagcgaggaagcggaagagcgcccaatacgcaaaccgcctctccccgcgcgttggccgattcattaatgcagctggcacgacaggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagttagctcactcattaggcaccccaggctttacactttatgcttccggctcgtatgttgtgtggaattgtgagcggataacaatttcacacaggaaacagctatgaccatgattacgccaagctcggaattaaccctcactaaagggaacaaaagcttgcatgcctgcaggtctggaccgaattcggagtcccctgcacgatggtagtaccgcactgtctcagtgtgtacaaatgatgatgaacccagtgccccaggggagtggtgaactacgcagcccacgtcaagcaagccgcgaccgtcggcacaacccggatcgccgcatgcgccggcgcacgggtctatacattcgacgcgagccaggtaaaactcttccacatacctcttagaggcgacacggcgccagaaacgacgaaaaactggacaaacggcaggaacattgtctgtttcctagcaacaccgcgagagcggcccagatgccccgcctgccgtcctatgatacttcgtgacagatgaaggtaattggcatgctttgcgcgccagccggggccgccgcgacgggggcgtatattagttgtgtcacgccacggtttgaactcgcccgcgtggccgagctcgttagttttgataaaacccagccttaatagcgtcgcgaacgtcctgagaatgcaaagtgactatcgtgcgcgtgcacccgtgccgcatcctcactctgcgtgcaagcccggcttcccgggcgcgccagaaggagcgcagccaaaccaggatgatgtttgatggggtatttgagcacttgcaacccttatccggaagccccctggcccacaaaggctaggcgccaatgcaagcagttcgcatgcagcccctggagcggtgccctcctgataaaccggccagggggcctatgttctttacttttttacaagagaagtcactcaacatcttaaaATGgccacgtgcgtcgacccactctagaggatccccgctccgtgtaaatggaggcgctcgttgatctgagccttgccccctgacgaacggcggtggatggaagatactgctctcaagtgctgaagcggtagcttagctccccgtttcgtgctgatcagtctttttcaacacgtaaaaagcggaggagttttgcaattttgttggttgtaacgatcctccgttgattttggcctctttctccatgggcgggctgggcgtatttgaagcgggtaccgagctcgaattc