**Table S2.** Primers used in this study

|  |  |
| --- | --- |
| Primer name  | Sequence 5’-3’ |
| 5’-smo50.1  | CCACACACACAATTCTCTCTCTCT |
| 3’-smoM13f | GTCGTGACTGGGAAAACCCTGGCGAGCATGACGGACATTTTGACGGAG |
| 5’-smoM13r  | TCCTGTGTGAAATTGTTATCCGCTCAGCAACCTTTACCACCATTATCA |
| 3’-smo30.1  | GGACCAGCCGAGGAATATAATACT |
| M13F  | cgccagggttttcccagtcacgac |
| M13R  | Agcggataacaatttcacacagga |
| Hysplit  | ggatgcctccgctcgaagta |
| Ygsplit  | cgttgcaagacctgcctgaa |
| 5’-smop  | TAGAACTAGTGGATCCGTTTGGTGAGATTGTGTGTGTGT |
| 3’-SmoGFP  | CAGCCCTTCTTCCGCGCGAACCG |
| 5’GFPstart | CGGAAGAAGGGCTGGATGGTGAGCAAGGGCGAGGAGCTG |
| 5’-Trpc     | CGGTATCGATAAGCTGTGGAGATGTGGAGTGGGCGCTTA |
| 5’-smoGB  | CATGGAGGCCGAATTCATGTCCGTCATGCTGCAAACTCCA  |
| 3’-smoGB  | GCAGGTCGACGGATCCCTACCAGCCCTTCTTCCGCGCGAA |
| 3’ -smoGA  | GGAGGCCAGTGAATTCATGTCCGTCATGCTGCAAACTCCA  |
| 5’-smoGA  | CGAGCTCGATGGATCC CTACCAGCCCTTCTTCCGCGCGAA |
| 5’-ras2GB  | CATGGAGGCCGAATTCATGGCTCAGTCAAAGTTCCTACGC  |
| 3’-rasGB  | GCAGGTCGACGGATCC TTACATCAAGACACACTTGGAGCA |
| 5’-ras2GA  | GGAGGCCAGTGAATTCATGGCTCAGTCAAAGTTCCTACGC  |
| 3’-ras2GA  | CGAGCTCGATGGATCCTTACATCAAGACACACTTGGAGCA |
| 5’-gef1GB  | CATGGAGGCCGAATTCATGCTCATGACACAGACGGTTGTG  |
| 3’-gef1GB  | GCAGGTCGACGGATCCTCACAGGAACCCAGACTCGGCGAG |
| 5’-Gef2GB  | CATGGAGGCCGAATTCATGGTAATGCCCGGCGACCATTCC  |
| 3’-Gef2GB  | GCAGGTCGACGGATCCTCAAGCAGCAGGATGATCTCTGTG |
| 5’-Ras1GA  | GGAGGCCAGTGAATTCATGACTGGAAGGTTGCAGCTCCAC  |
| 3’-Ras1GA  | CGAGCTCGATGGATCCTCACAATATAACACACTTGATCGG |