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| **Gene/Application** | **Sequence (5’-3’)** |
| *tsr* deletion | GGCCGAAAATCTTGCATCGGTCCACAGGAAAGAGAAACCTGTGTAGGCTGGAGCTGCTTC |
|  | AAAACGCCGGATGAAATACTCATCCGGCATCATTACGCATATGAATATCCTCCTTAG |
| *tsr* deletion check | CGAGAACCGGACCCACCAG |
|  | CCTGGCCTGCGCTGTTCC |
| *tar* deletion | CCCATCAGGCGGCAATGACCGCTTTAGTAAATACTCGTGTGTAGGCTGGAGCTGCTTCG |
|  | AATAAAGTTTCCCCCCTCCTTGCCGATAACGAGATCAACCATATGAATATCCTCCTTAG |
| *tar* deletion check | CCAATGTATCAGCCAGCGTC |
|  | CTACGCCTTGCTGGTGGATC |
| *aer* deletion | GGCATTGTGCTCCAACCGCTGGATCCGGCATACCGATGTGTAGGCTGGAGCTGCTTCG |
|  | GAAGTTAACAACCATATAACCTGCACAGGACGCGAACCATATGAATATCCTCCTTAG |
| *aer* deletion check | CGATGACAGCCACGGTTACG |
|  | GCTTGCCACTCTACGGCTC |
| *φtsr* (*tsr*-*c5431*) | ACGTAATGATGCCGGATGAGTATTTCATCCGGCGTTTTTGTGTAGGCTGGAGCTGCTTCG |
|  | ATATCCCGGCGATTTCACTGTTCCTGGTTTAATAATAAACCATATGAATATCCTCCTTAG |
| *φtar* (*argS*-*flhE*) | AGCGTATGTAATCGCGTTATACGGCAACAGCCGATGTTTGTGTAGGCTGGAGCTGCTTCG |
|  | AATTATCGTTAATGATAAAAAAGCCGATGTCTGCAATAACCATATGAATATCCTCCTTAG |
| *φaer*(*aer*-*ygiL*) | ATATTACGCAACTGGATTAATCGCCGCATCCGCCAGTGTGTGTAGGCTGGAGCTGCTTCG |
|  | GGCGCGTCAAGCGTCGCATCCGGCAATTGCACCGCGCAACCATATGAATATCCTCCTTAG |