**Table S3.** Primer sequences used to generate DNA probes of the specified regions of m*Nags*. Primers were used to generate DNA probes, by PCR, of the promoter, enhancer, or non-specific specified regions of m*Nags*.

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| --- | --- |
| **Primer Name** | **Primer Sequence** |
| mNAGS-Prom Region A Fw | 5’-AATCTGACCTTCGTGACCCTCACT-3’ |
| mNAGS-Prom Region A Rv | 5’- CACTCAGTCTCCGTGAGCCC-3’ |
| mNAGS-Prom Region B Fw | 5’-ACATTCCCAAATGTGGCCATCACC-3’ |
| mNAGS-Prom Region B Rv | 5’-AAAGCGCTCAGATGTCCTAGGTGT-3’ |
| mNAGS-Prom-NC Fw | 5’-AGCTGTACAGATGGTTGTGAGCCT-3’ |
| mNAGS-Prom-NC Rv | 5’-TCAGCGGGTAAGAGTACTGACTGCT-3’ |
| mNAGS-Enh Fw | 5’-GCTTTGTTGGAAGGTCAAGTCG-3’ |
| mNAGS-Enh Rv | 5’-GTGCCCTTCATCTTTGTCCCA-3’ |
| mNAGS-Enh-NC Fw | 5’-TAGGGCGTGTTCAAGACAGGGTTT-3’ |
| mNAGS-Enh-NC Rv | 5’- AGCTTGGTGGTGAGTGCCTTTAGT-3’ |