Supplementary File 1. sgRNA protospacer sequence

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| SP498.mCherry.g17 | CAAGTAGTCGGGGATGTCGGNGG |
| SP498.mCherry.g19 | AGTAGTCGGGGATGTCGGCGNGG |
| SP499.Luc.g3 | CAATTCTTTATGCCGGTGTTNGG |
| SP399.Luc.g4 | GTGTTGGGCGCGTTATTTATNGG |
| MS347.Slc38a2.g1 | GTATCTGAACGGTGACTATCNGG |
| MS348.Slc38a2.g11 | GAGTTGAAGATGAAATAGCGNGG |
| MS348.Slc38a2.g13 | ATGCCAACGCCAACGCTGCCNGG |
| MS348.Slc38a2.g21 | AAGCAGCTTCCACGGGGCAANGG |
| MS348.Slc38a2.g4 | GTGGCCAACGAAACTGTGAANGG |