Supplementary Material

# Targeting VGLUT2 in mature dopamine neurons decreases mesoaccumbal glutamatergic transmission and identifies a role for glutamate co-release in synaptic plasticity by increasing baseline AMPA/NMDA ratio

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# Supplementary Table 1: PCR primer sequences used for genotyping of transgenic mice used in the study.

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| **Transgene** | **Direction** | **PCR primer sequence** |
| Dat-Cre | fw | 5'-ACGAGTGATGAGGTTCGCAAGA-3' |
| Dat-Cre | rev | 5'-ACCGACGATGAAGCATGTTTAG-3' |
| TdTomato | fw (mut) | 5'-CTGTTCCTGTACGGCATGG-3' |
| TdTomato | rev (mut) | 5'-GGCATTAAAGCAGCGTATCC-3' |
| TdTomato | fw (wt) | 5'-AAGGGAGCTGCAGTGGAGTA-3' |
| TdTomato | rev (wt) | 5'-CCGAAAATCTGTGGGAAGTC-3' |
| DRD1-eGFP | fw | 5'-ACCGGAAGTGCTTTCCTTCTGGA-3' |
| DRD1-eGFP | rev | 5'-TAGCGGCTGAAGCACTGCA-3' |
| Vglut2-Lox | fw | 5'-CAGGCAAAATCTGTCCACCT-3' |
| Vglut2-Lox | rev | 5'-AGGGTAGGCCAAAAGCAATC-3' |
| DATCreERT2 | fw | 5'-GGCTGGTGTGTCCATCCCTGAA-3' |
| DATCreERT2 | rev | 5'-GGTCAAATCCACAAAGCCTGGCA-3' |