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

**Maria Papathanou1,** Meaghan Creed2#, Matthijs Dorst3, Zisis Bimpisidis1, Hanna Pettersson1, Sylvie Dumas4, Camilla Bellone2, Gilad Silberberg3, Christian Lüscher2,5, **Åsa Wallén-Mackenzie1,\***

**\* Correspondence: Åsa Wallén-Mackenzie**: asa.mackenzie@ebc.uu.se

# Supplementary Table 2: Primer sequences and thermal conditions for nested PCR used for verifying txKO mice

Primers for PCR 1

|  |  |  |
| --- | --- | --- |
| **Transgene** | **Direction** | **PCR primer sequence** |
| β-actin | Fw | 5'-CTCTTTTCCAGCCTTCCTTCTT-3' |
| β-actin | Rev | 5'-AGTAATCTCCTTCTGCATCCTGTC-3' |
| TH | NL-Fw | 5'-GTTCTCAACCTGCTCTTCTCCTT-3' |
| TH | NL-Rev | 5'-GGTAGCAATTTCCTCCTTTGTGT-3' |
| Vglut2 | NL-Fw | 5'-GCCGCTACATCATAGCCATC-3' |
| Vglut2 | NL-Rev | 5'-GCTCTCTCCAATGCTCTCCTC-3' |

Primers for PCR 2

|  |  |  |
| --- | --- | --- |
| **Transgene** | **Direction** | **PCR primer sequence** |
| β-actin | Fw | 5'-CTCTTTTCCAGCCTTCCTTCTT-3' |
| β-actin | Rev | 5'-AGTAATCTCCTTCTGCATCCTGTC-3' |
| TH | Fw | 5'-GTACAAAACCCTCCTCACTGTCTC-3' |
| TH | Rev | 5'-CTTGTATTGGAAGGCAATCTCTG-3' |
| Vglut2 | Fw | 5'-ACATGGTCAACAACAGCACTATC-3' |
| Vglut2 | Rev | 5'-ATAAGACACCAGAAGCCAGAACA-3' |

Thermal conditions of PCR1

|  |  |  |
| --- | --- | --- |
| **Temperature** | **Time** | **Cycles** |
| 98° C | 30 s | 1’ |
| 98° C53° C72° C | 10 s30 s15 s | 20’ |
| 72° C | 5 min | 1’ |

Thermal conditions of PCR2

|  |  |  |
| --- | --- | --- |
| **Temperature** | **Time** | **Cycles** |
| 98° C | 30 s | 1’ |
| 98° C53° C72° C | 10 s30 s15 s | 30’ |
| 72° C | 5 min | 1’ |