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## Supplemental Information

# Minimal Purkinje Cell-Specific PCP2/L7 Promoter Virally Available for Rodents and Non-human Primates

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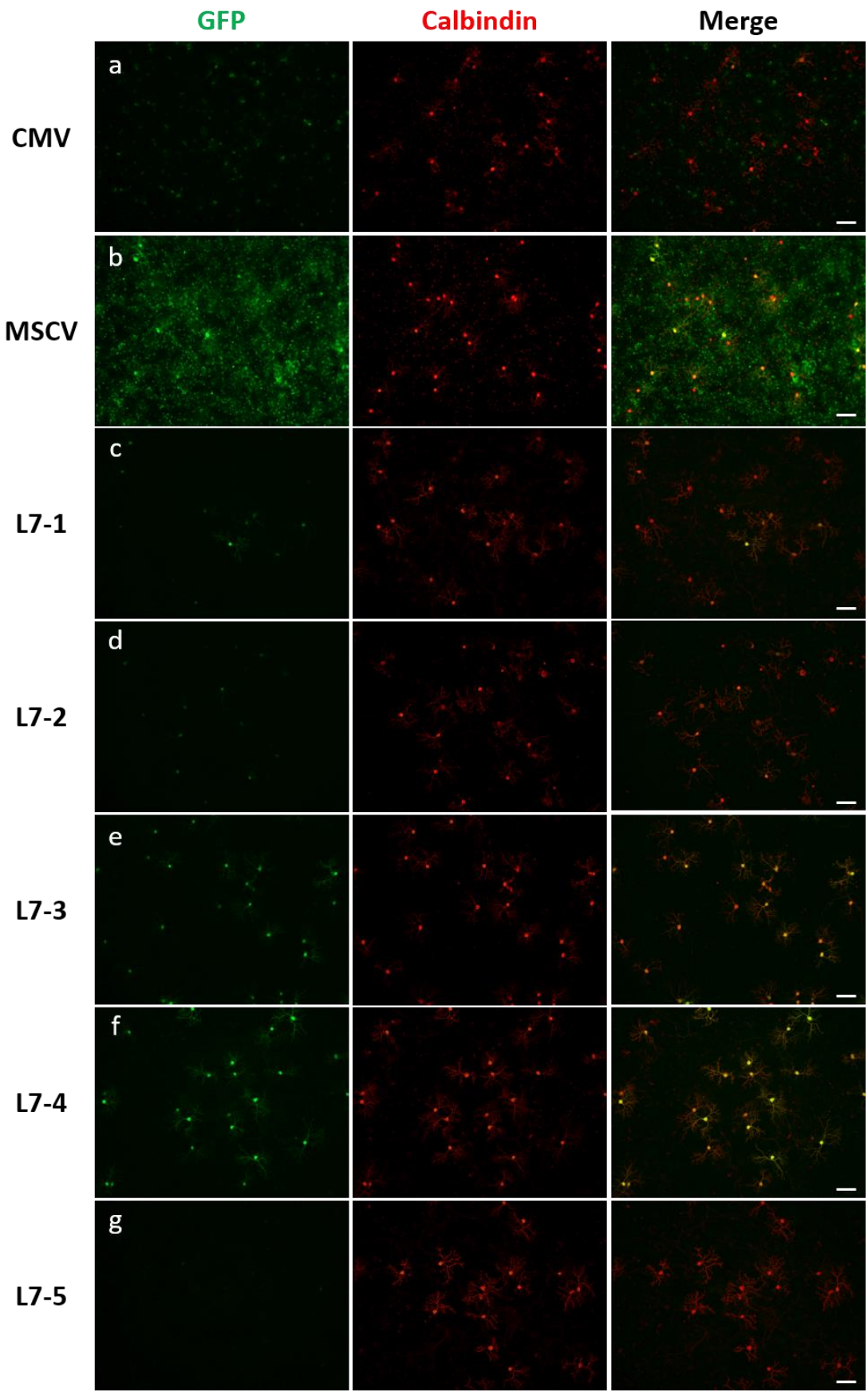
GFP
Calbindin
Merge
a
b
c
d
e
f
g
CMV
MSCV
L7-1
L7-2
L7-3
L7-4
L7-5

Figure S1

Purkinje cell-specific and upregulated expression of GFP by the deleted L7-3 and L7-4 promoters. Lentiviral vectors expressing GFP under the control of the Purkinje cell-specific L7-1 promoter (c) or different sizes of the deleted promoters (d–g) were infected to rat cerebellar mixed cultures at 0 day *in vitro* (DIV). The ubiquitous CMV (a) and MSCV (b) promoters were used as controls. The cultures were double immunolabeled for GFP (green) and calbindin D-28K (red) at 14 DIV. Note that the culture expressing GFP by L7-3 (e) or L7-4 (f) deleted promoter show more efficient and intense GFP labeling than that by the original L7-1 promoter. Scale bars, 100 μm.

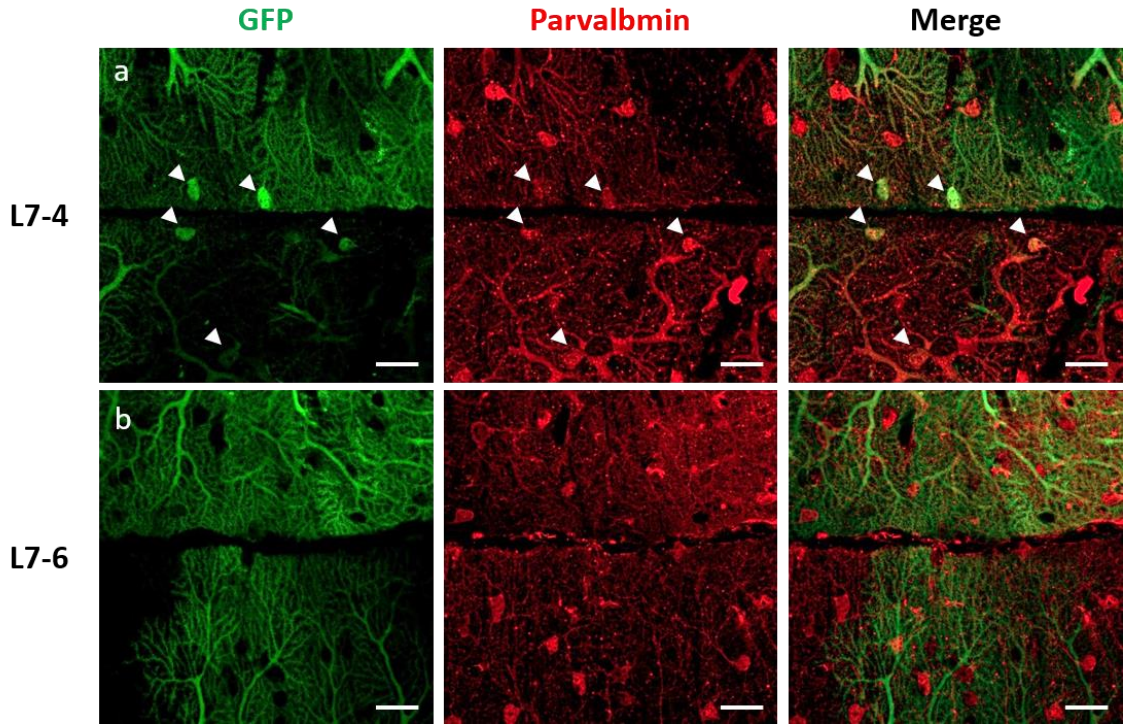


Figure S2

Obvious leakage of the L7-4 promoter activity into stellate cells, in sharp contrast to the absence of the leakage in the L7-6 promoter. Representative images of the cerebellar sagittal sections lentivirally expressing GFP under the control of L7-4 (a) or L7-6 (b). The sections were immunolabeled with GFP and parvalbumin, clearly showing the expression of GFP in stellate cells (arrowheads) by the L7-4 promoter, but not by the L7-6 promoter. Scale bars, 20 μm. GFP, green fluorescent protein.

| | | |
|---|---|---|
| mL7-2 | F | CGAACGCGTGGTTCCACCCTCATGTTGGTTG |
| | R | TCCGAATTCCTTCCCATCACACCCCTTTCCCC |
| mL7-3 | F | CGAACGCGTTCAGAGCATGGTCAGAAAGCC |
| | R | TCCGAATTCCCGATCGCCCTGCACGTGGGTC |
| mL7-4 | F | CGAACGCGTGGTTCCACCCTCATGTTGGTTG |
| | R | TCCGAATTCCCGATCGCCCTGCACGTGGGTC |
| mL7-5 | F | CGAACGCGTTAACACACAGGGGGTATAGGTAG |
| | R | TCCGAATTCCCGATCGCCCTGCACGTGGGTC |
| mL7-6 | F | CGAACGCGTGGTTCCACCCTCATGTTGGTTG |
| | R | TCCGAATTCAGTCCTCACGGGTCTGCAGAATTTC |
| mL7-7 | F | CGAACGCGTGGTTCCACCCTCATGTTGGTT |
| | R | TCCGAATTCCAGGGAAATGGGGCTCAGAAG |
| mL7-8 | F | CGAACGCGTGGTTCCACCCTCATGTTGGTT |
| | R | TCCGAATTCATTCATTTGCCCTGAGGAGG |
| mL7-9 | F | CGAACGCGTGGTTCCACCCTCATGTTGGTT |
| | R | TCCGAATTCTGTGTATCTCTCCTATACTTTTCTCC |
| mL7-10 | F | CGAACGCGTGTAAGAGGGCTCTGGCTGACTCC |
| | R | TCCGAATTCAGTCCTCACGGGTCTGCAGAATTTC |
| mL7-11 | F1 | CAAGCTTCGAACGCGTGGTTCCACCC |
| | R1 | TTATAGTACTCCAGAGACTTGCTTGCTAATTAG |
| | F2 | TCTGGAGTACTATAACACACAGGGGGTATAGGTAGG |
| | R2 | TGCTCACCATGAATTCAGTCCTC |
| pAAV mL7-6 | F | CGACTCGAGGGTTCCACCCTCATGTTGGTTG |
| | R | TCCACCGGTAGTCCTCACGGGTCTGCAGAAT |

Table S1

Primer sets used for cloning the L7 deletion constructs.