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Supplemental information

An early cell shape transition drives evolutionary expansion of the human forebrain

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Supplemental Table 1. Table of Oligonucleotides, Related to STAR Methods

Name	Sequence (5'-3')	Application
AAVS1_CAG_fl_STOP_fl_F	ACGCGTAGTCGGTACCTTACTAGGGACAGGATTGGTGACAG	Amplification of plasmid backbone for construction of AAVS1-Puro-CAG-fl-STOP-fl-Cas9
AAVS1_CAG_fl_STOP_fl_R	CTCGACCCATAGAGCCAC	Amplification of plasmid backbone for construction of AAVS1-Puro-CAG-fl-STOP-fl-Cas9
Cas9_β_globin_pA_F	ATAACGCGTATGGACTATAAGGACCACGACGG	Amplification of Cas9-b-globin-poly(A) and addition of restriction sites
Cas9_β_globin_pA_R	ATAGGTACCATTTCGCCCTCCCATATGTCCTTC	Amplification of Cas9-b-globin-poly(A) and addition of restriction sites
TRE_F	(P)-CTAGTAAAGCTTAGTACTGTCGAGTTTAC	Amplification of tight TRE promoter
TRE_R	(P)-TTAGTCGACACAGGCGATCTGACGGTTC	Amplification of tight TRE promoter
CMV_bGH_F	(P)-GCTACAACAAGGCAAGGCTTGACC	Amplification of CMV-2TO-MCS-bGHpoly(A)
CMV_bGH_R	(P)-TTCTTTCCGCCTCAGAAGCCATAG	Amplification of CMV-2TO-MCS-bGHpoly(A)
Cre_Sall_F	TTGTCGACGCAACGTGCTGGTTATTGTGCTG	Amplification of Cre
Cre_KpnI_R	ATGGTACCTCATCCATCGCCATCTTCCAGCAG	Amplification of Cre
AAVS1_F	CTGCCGTCTCTCTCTGAGT	Genotyping of the AAVS1 locus
AAVS1_R	CTGGCTCCATCGTAAGCAAACC	Genotyping of the AAVS1 locus
Puro_R	AGAGTTCTTGACGCTCGGTGAC	Genotyping of the edited AAVS1 locus
Neo_R	AGCAGCCGATTGTCTGTTGTG	Genotyping of the edited AAVS1 locus
AAVS1_sgRNA	GGGGCCACTAGGGACAGGA	sgRNA used to target the AAVS1 locus
ZEB2_IndOE_F	AACGTGCTGGTTATTGTGCTGTCTCATCTTTTGGCAAAGATGAAGCAGCCGATCATGGCGGA	Amplification and tagging of the ZEB2 ORF
ZEB2_IndOE_R	CACCGCCACCGGATCCACCGCCACCGGATCCACCGCCACCCATGCCATCTTCCATATTGTCTTCT	Amplification and tagging of the ZEB2 ORF
GFP_IndOE_F	GGTGGCGGTGGATCCGGTGGCGGTGGATCCGGTGGCGGTGGATCCATGGTGAGCAAGGCGAGGA	Amplification and tagging of the ZEB2 ORF
GFP_IndOE_R	CTCTCCGCTGCCAGAACTCTCAGGGCCCTGTGGACGCGTACCGGTCCTATCGTCGTATCCTTGAATCGGATCCACCGCCACCCCTTGACAGCTCGTCCATGCCG	Amplification and tagging of the ZEB2 ORF
ZEB2_GFP_Flag_IndOE_F	ATACGCACCGGTATGAAGCAGCCGATCATGGCG	Amplification of ZEB2-GFP-Flag for subcloning
ZEB2_GFP_Flag_IndOE_R	ATACGCGGTACCTTACTTATCGTCGTATCCTTGAATCGGATCC	Amplification of ZEB2-GFP-Flag for subcloning
ZEB2_AAVS1 IndOE_F	ACATGCACGCGTATGAAGCAGCCGATCATGGCG	Amplification of ZEB2-GFP-Flag-WPRE-poly(A) for construction of the AAVS1-Puro-CAG-fl-STOP-fl-ZEB2-GFP-Flag-WPRE-poly(A) construct
ZEB2_AAVS1 IndOE_R	ACATGCGGCCGCCCCGAGTGAGAGACACAAAAATTCCAACA	Amplification of ZEB2-GFP-Flag-WPRE-poly(A) for construction of the AAVS1-Puro-CAG-fl-STOP-fl-ZEB2-GFP-Flag-WPRE-poly(A) construct
ZEB2_Seq_1	GCATGACCATCGCTTCCTC	Sequence validation of the ZEB2 ORF
ZEB2_Seq_2	CACCCCTGGCACAACAAC	Sequence validation of the ZEB2 ORF
ZEB2_Seq_3	GAGGAACGCGATGGTCATGC	Sequence validation of the ZEB2 ORF
ZEB2_Seq_4	TTTGCTACCGCACCCAG	Sequence validation of the ZEB2 ORF
ZEB2_Seq_5	TGCTCAGAGTCCAATGCAGCA	Sequence validation of the ZEB2 ORF
ZEB2_Seq_6	TCAAGGCGTCTGCAGC	Sequence validation of the ZEB2 ORF
ZEB2_Seq_7	AGGAGCTCCAGGCTGAGC	Sequence validation of the ZEB2 ORF
ZEB2_Seq_8	ACAAGACTACATGTCAGGCCTAG	Sequence validation of the ZEB2 ORF
ZEB2_Seq_9	ACGGATCCCGAAACGATACGAG	Sequence validation of the ZEB2 ORF
ZEB2_sgRNA_1	CGGGGGCCATCCGCCATGATCGG	sgRNA used to target ZEB2
ZEB2_sgRNA_2	GGCGCAACAAGCCAATCCCAGG	sgRNA used to target ZEB2
ZEB2_DNAPAGE_F	GCCATCTGATCCGCTCTTAT	Amplification of a 114 bp fragment of the ZEB2 edit site for DNA-PAGE
ZEB2_DNAPAGE_R	GGTTCGGGCTGCTTCTTAC	Amplification of a 114 bp fragment of the ZEB2 edit site for DNA-PAGE
ZEB2_Cas9screening_F	CCACATTGTCGCTGTGTTTG	Primer for TaqMan drop-off assay on ZEB2 edits
ZEB2_Cas9screening_R	GAAAAGTTTGGTTCGGGCTG	Primer for TaqMan drop-off assay on

		<i>ZEB2</i> edits
ZEB2_drop-off_probe	(HEX)-TCCTGGGATTGGCTTGTTCG-(BHQ1)	Probe for TaqMan drop-off assay on <i>ZEB2</i> edits
ZEB2_reference_probe	(FAM)-AGGGCGCCGAGTCCATGC-(BHQ1)	Probe for TaqMan drop-off assay on <i>ZEB2</i> edits
ZEB2_RTPCR	CGCTTGACATCACTGAAGGA	Amplification of <i>ZEB2</i> mRNA for RT-PCR analysis
ZEB2_RTPCR	GCTCCTGGGTTAGCATTTG	Amplification of <i>ZEB2</i> mRNA for RT-PCR analysis
AAVS1_CAG_fl_STOP_fl_F	ACGCGTAGTCGGTACCTTACTAGGGACAGGATTGGTGACAG	Amplification of plasmid backbone for construction of AAVS1-Puro-CAG-fl-STOP-fl-Cas9
AAVS1_CAG_fl_STOP_fl_R	CTCGACCCATAGAGCCCAC	Amplification of plasmid backbone for construction of AAVS1-Puro-CAG-fl-STOP-fl-Cas9

Modifications:

(P) 5'-phosphorylation
 (HEX) 5'-HEX fluorophore
 (FAM) 5'-FAM fluorophore
 (BHQ1) 3'-black hole quencher 1