

Supplementary information, Table S1. Fidelity of reporter cell lines

Individual gene reporters	Day checked	Endogenous protein expression in marker gene positive cells	Marker gene expression in endogenous protein positive cells	comments
FOXA2-Tdtm	Stage 1 day 4	99±1%	95±4%	
FOXA2-Tdtm	Stage 2 day 3	98±2%	97±3%	
FOXA2-Tdtm	Stage 3 day 4	99±1%	97±2%	
FOXA2-Tdtm	Stage 4 day 3	98±2%	95±5%	
SOX17-eGFP	Stage 1 day 4	98±1%	97±2%	
SOX17-eGFP	Stage 2 day 3	94±5%	98±1%	
PDX1- Tdtm	Stage 3 day 4	96±4%	99±1%	
PDX1- Tdtm	Stage 4 day 3	90±8%	98±2%	Some pdx1 ^{low/-} Tdtm ⁺ cells existed.
NKX6.1- Tdtm	Stage 4 day 3	98±2%	97±3%	
NGN3-eGFP	Stage 4 day 1	80±11%	82±5%	
NGN3-eGFP	Stage 4 day 3	21%±7%	85±4%	
NEUROD1-Tdtm	Stage 4 day 3	99±1%	96±4%	
MAFB- Tdtm	Stage 4 day 4	98±2%	95±2%	
PAX6- Tdtm	Stage 4 day 5	97±2%	92±2%	
INS- Tdtm	Stage 5 day 5	96±4%	95±4%	