

**S4 Table: The primer details used for real-time PCR.**

Gene	Primer sequence (5→3)	Amplicon size (bp)	Accession number (NCBI)	Efficiency value	
				SH-SY5Y	DPSCs
<b>Housekeeping genes</b>					
GAPDH	(F) CTCCTGTTCGACAGTCAG (R) GCCCAATACGACCAAATC	111	NM_002046.7	1.70	1.80
RPL13A	(F) CCTGGAGGAGAAGAGGAAAAGAGA (R) TTGAGGACCTCTGTGTATTTGTCAA	126	NM_012423.4	1.90	1.70
B2M	(F) ACCCCCACTGAAAAAGATGA (R) ATCTTCAAACCTCCATGATG	114	NM_004048.3	1.60	1.90
HPRT1	(F) GACCAGTCAACAGGGGACAT (R) AACACTTCGTGGGGTCCTTTTC	195	NM_000194.3	1.90	1.70
<b>Target genes</b>					
ENO2 (NSE)	(F) CTGAAGCCATCCAAGCGTGC (R) CCCACCACCAGGTCAGCAAT	109	NM_001975.2	1.85	1.92
NES	(F) GAGAACTCCCGGCTGCAAAC (R) CCAGCTTGGGGTCCTGAAAG	70	NM_006617.1	1.83	1.93
SYN1	(F) AATACTGGCTCTGCGATGCT (R) TGACCACGAGCTCTACGATG	223	NM_006950.3	1.94	1.78
GFAP	(F) CCATTCCCGTGCAGACCTTC (R) TCTGAGAGGCAGGCAGCTAAC	180	NM_0011310 19.2	2.07	1.60
PRPH	(F) AGATCGCCACCTACCGCAAG (R) CCCATTCCGGGTCTCAATGGT	170	NM_006262.3	2.08	1.85
SCN9A	(F) GGCAACTTCTGATGACAGCG (R) GTGCAAATCTGTACCACCAAGG	200	NM_0013655 36.1	2.01	2.05
DBH	(F) CAGATATCTCCGCCTGGAAG (R) TGCAGTAGCCAGTGAGGATG	197	NM_000787.3	1.76	_
POU4F1	(F) TTGCCATGCATCCCACCCTC (R) TGAAAGGATGGCTCTTGCCCT	198	NM_006237.3	2.03	1.60
CHAT	(F) TCCAACGAGGACGAGCGTTT (R) ATCATGTCCAGCGAGTCCCG	122	NM_0011429 34.1	2.10	1.93

ACHE	(F) CCTCCTTGGACGTGTACGAT (R) AAACAGCGTCACTGATGTCG	218	NM_0013026 22.2	1.64	1.72
GAP43	(F) CAGAATTAAGGGAACCTGG (R) TGTGACTCATTTTCCTTGTG	93	NM_0011300 64	2.04	2.10
MNX1	(F) GTTCAAGCTCAACAAGTACC (R) GGTCTGGAACCAAATCTTC	98	NM_0011652 55	1.65	1.88

Abbreviations: GAPDH (glyceraldehyde-3-phosphate dehydrogenase); RPL13A (ribosomal protein L13A); B2M (beta-2-microglobulin); HPRT1 (hypoxanthine phosphoribosyltransferase 1); ENO2/NSE (enolase 2/neuron-specific enolase); NES (nestin); SYN1 (synapsin I); GFAP (glial fibrillary acidic protein); PRPH (peripherin); SCN9A (voltage-gated sodium channel alpha subunit 9); DBH (dopamine beta-hydroxylase); POU4F1 (POU class 4 homeobox 1); CHAT (choline O-acetyltransferase); ACHE (acetylcholinesterase); GAP43 (growth associated protein 43); MNX1 (motor neuron and pancreas homeobox 1).