

Supplementary Table S3

Table S3. Summarize of reference gene stability in studies that assessed reference gene stability in post-mortem brain of neurodegenerative diseases.

Most stable RGs	Less stable RGs	Sample size	Brain region	Additional information of RNA	Method	Reference
GAPDH	ACTB, 18SrRNA	AD = 13 NC = 6	Frontal cortices	Brain weight, PMI, Age at death PMI and age at death do not influence mRNA expression	Delta CT	[1]
ACTB GUS	TBP, B2M, PGK, huPO, CYC, GAPDH, HPRT, TfR	AD = 16 PD = 3 DLB = 8 NC = 6	Frontal cortex	Agonal state, PMI, Brain pH	Delta CT	[2]
Medial Temporal Gyrus AD:UBC, HMBS, SDHA,YWHAZ PD: GAPDH, SDHA, HMBS DLB:B2M, SDHA,GAPDH Cerebellum AD:YWHAZ, GAPDH, B2M PD:HMBS, GAPDH, SDHA	TBP, UBC, YWHAZ,RP II, HMBS, SDHA	AD = 6 PD = 6 DLB = 6 NC = 5	Medial temporal gyrus cerebellum	No correlation between RIN and disease progression nor gene expression	geNorm	[3]

DLB:UBC, GAPDH, B2M						
PPIA UBE2D2 GPS1	PGK1, GAPDH, GUSB, M-RIP, POL2RF, YES1, ACTB	AD = 9 NC= 11	Frontal cortex	PMD RIN	geNorm NormFinder BestKeeper	[4]
XPNPEP1	ATP5E, AARS, GAPVD1, CSNK2B, OSBP, NAT5, DCTN2, BECN1, GAPDH, QARS, TUBB	AD =11 NC =7 ALS = 10 NC = 10 HTD = 9 NC = 10 MS = 10 NC = 10 PD = 12 NC = 8 SCZ = 10 NC = 10	Entorhinal cortex Cervical spinal cord Ventral head of caudate nucleus Superior frontal gyrus Substantia nigra Temporal cortex left BA22	RIN	Ranking by coefficient of variance (CV) data based on microarray and RT-PCR	[5]
Prefrontal cortex AD: UBE2D2, RPL13, PPIA PD:UBE2D2, RPL13,PUM1 Cerebellum AD: UBE2D2, RPL13, TBP PD: UBE2D2, PPIA, ATP5B	B2M, UBC, ACTB, EIF4A2, GADPH,TOP1	AD = 10 PD = 10 MSA = 10 PSP = 10 NC = 10	prefrontal cortex cerebellum	RIN, Age, PMI None of the viable factors showed significant correlation to the gene expression.	RefFinder	[6]

Abbreviation: RG, reference gene; PMI, post-mortem interval; RIN, RNA integrity number; NC, non-demented control; AD, Alzheimer's disease; PD, Parkinson's disease; ALS, Amyotrophic lateral sclerosis; HTD, Huntington's disease; MS, Multiple sclerosis; SCZ, Schizophrenia; DLB, Dementia with Lewy bodies; MSA, Multiple System Atrophy; PSP, Progressive Supranuclear Palsy.

References for Table S3

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