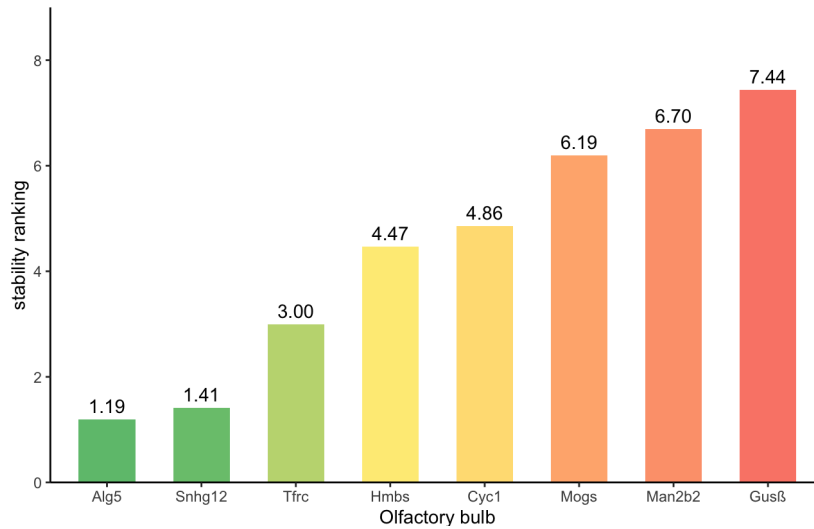


**A**Expression stability in olfactory bulb between WT and  $PWScr^{m+/p-}$ 

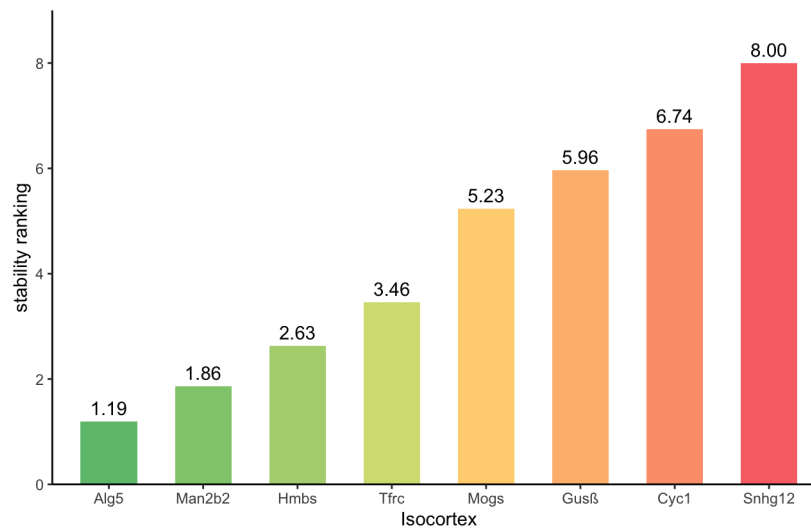
Method	1	2	3	4	5	6	7	8
Delta CT	Alg5	Snhg12	Tfrc	Cyc1	Hmbs	Man2b2	Mogs	Gusβ
BestKeeper	Snhg12	Alg5	Tfrc	Hmbs	Mogs	Gusβ	Cyc1	Man2b2
Normfinder	Alg5	Snhg12	Tfrc	Cyc1	Hmbs	Mogs	Man2b2	Gusβ
Genorm	Snhg12   Alg5		Tfrc	Hmbs	Cyc1	Man2b2	Mogs	Gusβ
avg. ranking	Alg5	Snhg12	Tfrc	Hmbs	Cyc1	Mogs	Man2b2	Gusβ

**B**

**Figure S1. Reference gene ranking in olfactory bulb.** (A) Expression stability ranking of reference gene candidates in olfactory bulb between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in olfactory bulb between WT and  $PWScr^{m+/p-}$  mice.

**A**Expression stability in isocortex between WT and  $PWScr^{m+/p-}$ 

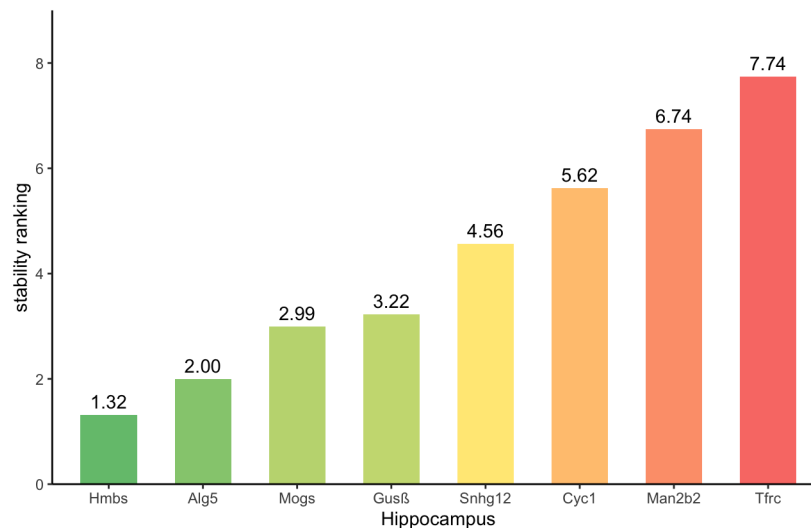
Method	1	2	3	4	5	6	7	8
Delta CT	Alg5	Man2b2	Tfrc	Hmbs	Mogs	Gusβ	Cyc1	Snhg12
BestKeeper	Hmbs	Alg5	Man2b2	Tfrc	Gusβ	Mogs	Cyc1	Snhg12
Normfinder	Alg5	Man2b2	Tfrc	Hmbs	Mogs	Gusβ	Cyc1	Snhg12
Genorm	Man2b2   Alg5		Hmbs	Tfrc	Mogs	Cyc1	Gusβ	Snhg12
avg. ranking	Alg5	Man2b2	Hmbs	Tfrc	Mogs	Gusβ	Cyc1	Snhg12

**B**

**Figure S2. Reference gene ranking in isocortex.** (A) Expression stability ranking of reference gene candidates in isocortex between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in isocortex between WT and  $PWScr^{m+/p-}$  mice.

**A**Expression stability in hippocampus between WT and  $PWScr^{m+/p-}$ 

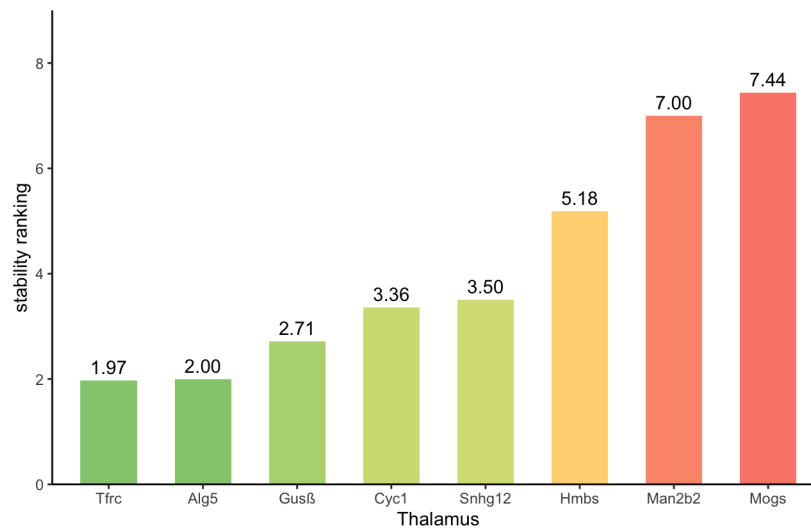
Method	1	2	3	4	5	6	7	8
Delta CT	Hmbs	Alg5	Gusβ	Mogs	Cyc1	Snhg12	Man2b2	Tfrc
BestKeeper	Alg5	Snhg12	Hmbs	Gusβ	Mogs	Man2b2	Tfrc	Cyc1
Normfinder	Hmbs	Alg5	Gusβ	Mogs	Cyc1	Snhg12	Man2b2	Tfrc
Genorm	Mogs   Hmbs		Gusβ	Alg5	Cyc1	Snhg12	Man2b2	Tfrc
avg. ranking	Hmbs	Alg5	Mogs	Gusβ	Snhg12	Cyc1	Man2b2	Tfrc

**B**

**Figure S3. Reference gene ranking in hippocampus.** (A) Expression stability ranking of reference gene candidates in hippocampus between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in hippocampus between WT and  $PWScr^{m+/p-}$  mice.

**A**Expression stability in thalamus between WT and *PWScr<sup>m+/p-</sup>*

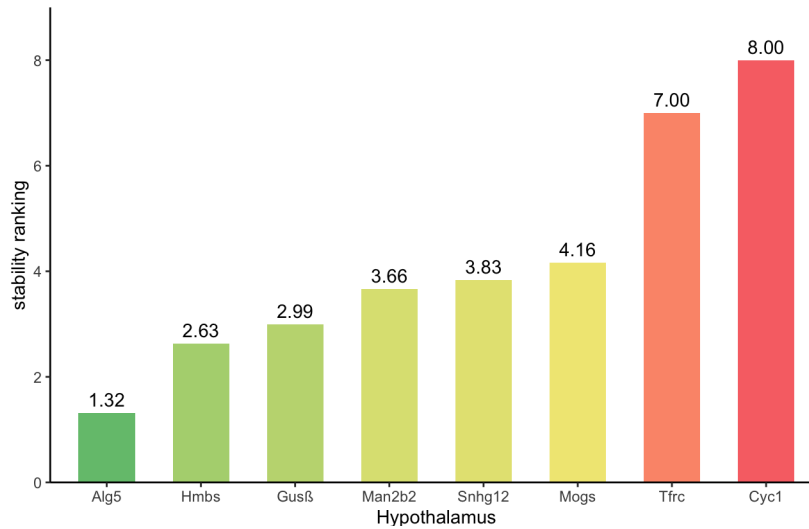
Method	1	2	3	4	5	6	7	8
Delta CT	Tfrc	Alg5	Gusβ	Cyc1	Snhg12	Hmbs	Man2b2	Mogs
BestKeeper	Alg5	Gusβ	Tfrc	Hmbs	Snhg12	Mogs	Man2b2	Cyc1
Normfinder	Tfrc	Alg5	Gusβ	Cyc1	Hmbs	Snhg12	Man2b2	Mogs
Genorm	Snhg12   Cyc1		Gusβ	Alg5	Tfrc	Hmbs	Man2b2	Mogs
avg. ranking	Tfrc	Alg5	Gusβ	Cyc1	Snhg12	Hmbs	Man2b2	Mogs

**B**

**Figure S4. Reference gene ranking in thalamus.** (A) Expression stability ranking of reference gene candidates in thalamus between WT and *PWScr<sup>m+/p-</sup>* mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in thalamus between WT and *PWScr<sup>m+/p-</sup>* mice.

**A**Expression stability in hypothalamus between WT and  $PWScr^{m+/p-}$ 

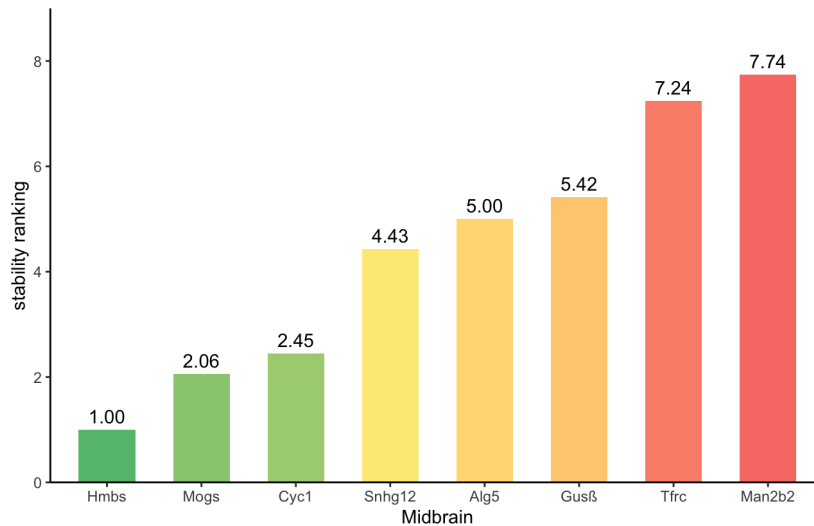
Method	1	2	3	4	5	6	7	8
Delta CT	Alg5	Hmbs	Man2b2	Gusβ	Mogs	Snhg12	Tfrc	Cyc1
BestKeeper	Snhg12	Hmbs	Alg5	Mogs	Gusβ	Man2b2	Tfrc	Cyc1
Normfinder	Alg5	Man2b2	Hmbs	Gusβ	Mogs	Snhg12	Tfrc	Cyc1
Genorm	Gusβ   Alg5		Mogs	Hmbs	Man2b2	Snhg12	Tfrc	Cyc1
avg. ranking	Alg5	Hmbs	Gusβ	Man2b2	Snhg12	Mogs	Tfrc	Cyc1

**B**

**Figure S5. Reference gene ranking in hypothalamus.** (A) Expression stability ranking of reference gene candidates in hypothalamus between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in hypothalamus between WT and  $PWScr^{m+/p-}$  mice.

**A**Expression stability in midbrain between WT and  $PWScr^{m+/p-}$ 

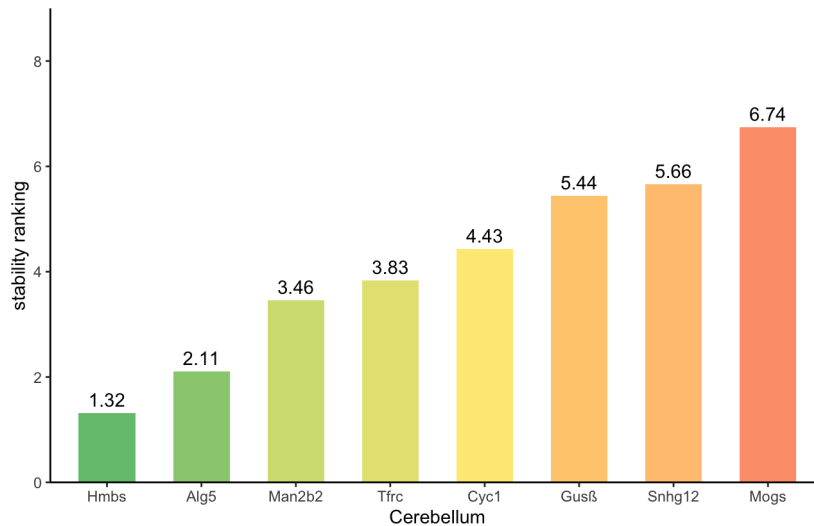
Method	1	2	3	4	5	6	7	8
Delta CT	Hmbs	Mogs	Cyc1	Snhg12	Alg5	Gusβ	Tfrc	Man2b2
BestKeeper	Hmbs	Cyc1	Mogs	Gusβ	Alg5	Snhg12	Man2b2	Tfrc
Normfinder	Hmbs	Cyc1	Mogs	Snhg12	Alg5	Gusβ	Tfrc	Man2b2
Genorm	Mogs   Hmbs		Cyc1	Snhg12	Alg5	Gusβ	Tfrc	Man2b2
avg. ranking	Hmbs	Mogs	Cyc1	Snhg12	Alg5	Gusβ	Tfrc	Man2b2

**B**

**Figure S6. Reference gene ranking in midbrain.** (A) Expression stability ranking of reference gene candidates in midbrain between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in midbrain between WT and  $PWScr^{m+/p-}$  mice.

**A**Expression stability in cerebellum between WT and  $PWScr^{m+/p-}$ 

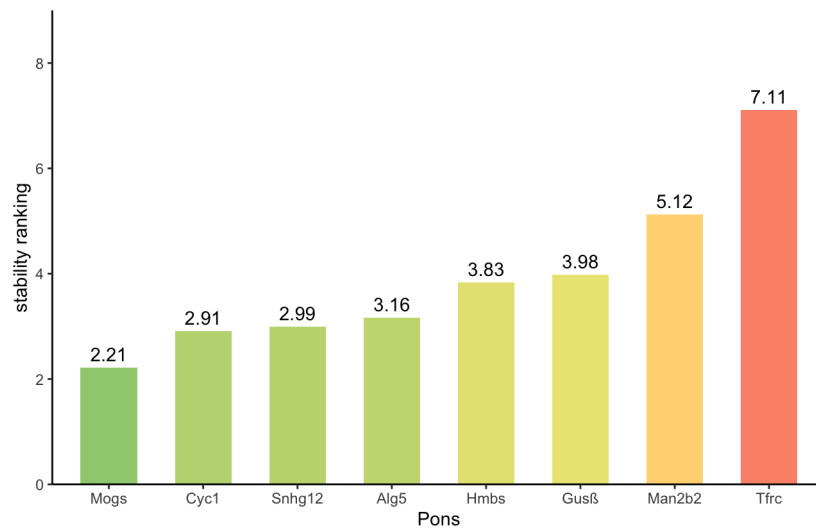
Method	1	2	3	4	5	6	7	8
Delta CT	Hmbs	Alg5	Man2b2	Cyc1	Gusβ	Tfrc	Mogs	Snhg12
BestKeeper	Tfrc	Snhg12	Hmbs	Man2b2	Alg5	Mogs	Gusβ	Cyc1
Normfinder	Hmbs	Alg5	Man2b2	Cyc1	Gusβ	Tfrc	Mogs	Snhg12
Genorm	Hmbs   Alg5		Cyc1	Man2b2	Gusβ	Tfrc	Mogs	Snhg12
avg. ranking	Hmbs	Alg5	Man2b2	Tfrc	Cyc1	Gusβ	Snhg12	Mogs

**B**

**Figure S7. Reference gene ranking in cerebellum.** (A) Expression stability ranking of reference gene candidates in cerebellum between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in cerebellum between WT and  $PWScr^{m+/p-}$  mice.

**A**Expression stability in pons between WT and *PWScr<sup>m+/p-</sup>*

Method	1	2	3	4	5	6	7	8
Delta CT	Mogs	Cyc1	Hmbs	Snhg12	Alg5	Gusβ	Man2b2	Tfrc
BestKeeper	Alg5	Man2b2	Cyc1	Snhg12	Tfrc	Hmbs	Gusβ	Mogs
Normfinder	Mogs	Hmbs	Cyc1	Alg5	Snhg12	Gusβ	Man2b2	Tfrc
Genorm	Snhg12   Gusβ		Mogs	Cyc1	Alg5	Hmbs	Man2b2	Tfrc
avg. ranking	Mogs	Cyc1	Snhg12	Alg5	Hmbs	Gusβ	Man2b2	Tfrc

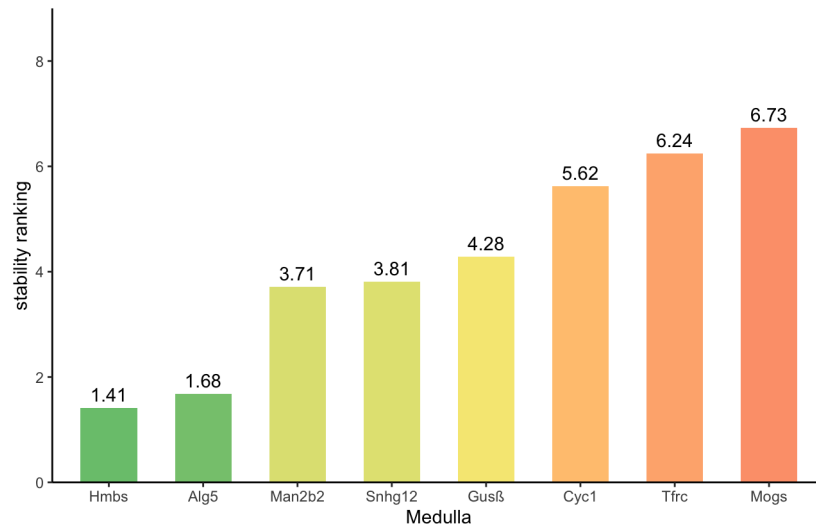
**B**

**Figure S8. Reference gene ranking in pons.** (A) Expression stability ranking of reference gene candidates in pons between WT and *PWScr<sup>m+/p-</sup>* mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in pons between WT and *PWScr<sup>m+/p-</sup>* mice.



**A**Expression stability in medulla between WT and  $PWScr^{m+/p-}$ 

Method	1	2	3	4	5	6	7	8
Delta CT	Hmbs	Alg5	Man2b2	Gusβ	Cyc1	Snhg12	Tfrc	Mogs
BestKeeper	Hmbs	Alg5	Man2b2	Mogs	Snhg12	Tfrc	Gusβ	Cyc1
Normfinder	Hmbs	Alg5	Man2b2	Gusβ	Cyc1	Tfrc	Snhg12	Mogs
Genorm	Snhg12   Alg5		Gusβ	Hmbs	Cyc1	Tfrc	Man2b2	Mogs
avg. ranking	Hmbs	Alg5	Man2b2	Snhg12	Gusβ	Cyc1	Tfrc	Mogs

**B**

**Figure S9. Reference gene ranking in medulla.** (A) Expression stability ranking of reference gene candidates in medulla between WT and  $PWScr^{m+/p-}$  mice; determined by four different stability ranking methods. Avg. ranking: shows the calculation of the resulting average ranking of the candidate genes (highlighted in gray; bottom row). (B) Average ranking position of each of the genes (lower average rank/green is more stable than higher average rank/red) in medulla between WT and  $PWScr^{m+/p-}$  mice.