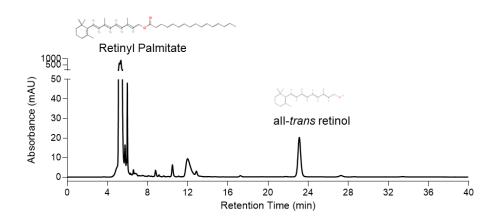
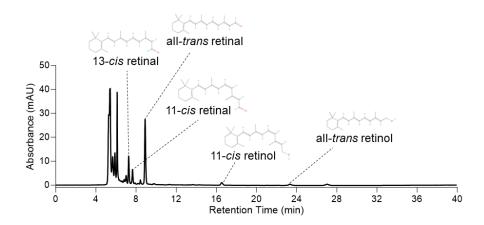
- 1 Title: Loss of the systemic vitamin A transporter RBPR2 affects the quantitative
- 2 balance between chromophore and opsins in visual pigment synthesis

3 SUPPLEMENTARY FIGURES



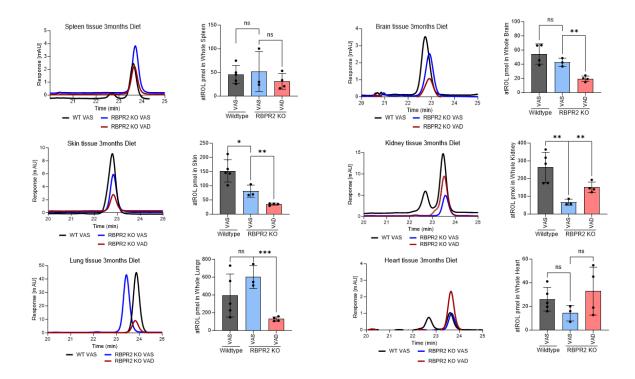
- 5 Supplementary Figure S1: Representative HPLC chromatogram of retinoids from Wild-
- 6 type mice liver.

4

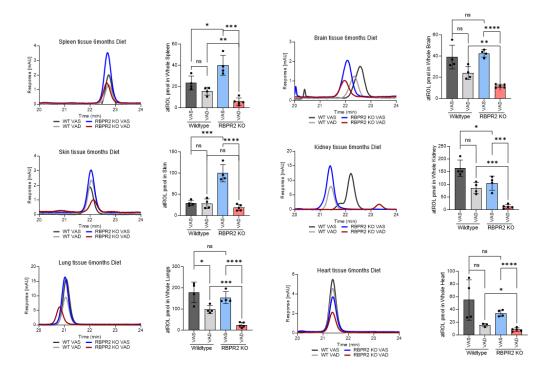


9 Supplementary Figure S2: Representative HPLC chromatogram of retinoids from wild-

type mice eyes.



Supplementary Figure S3: HPLC analysis and quantification of all-*trans* retinol at 3-months of age in various tissues. WT and $Rbpr2^{-/-}$ mice on different vitamin A diet showing the comparative box plots of all-*trans* retinol (atROL) in various non-ocular tissues among the genotypes and dietary conditions. Values are presented as \pm SD. Student *t*-test, *p<0.05; **p<0.005; **rp<0.001; n.s., not significant.



Supplementary Figure S4: HPLC analysis and quantification of all-*trans* retinol at 6-months of age in various tissues. WT and $Rbpr2^{-/-}$ mice on different vitamin A diets showing the comparative box plots of all-*trans* retinol (atROL) levels in various non-ocular tissues among the genotypes and dietary conditions. Values are presented as \pm SD. Student *t*-test, *p<0.05; **p<0.005; **rp<0.001; ****p<0.0001.; n.s., not significant.