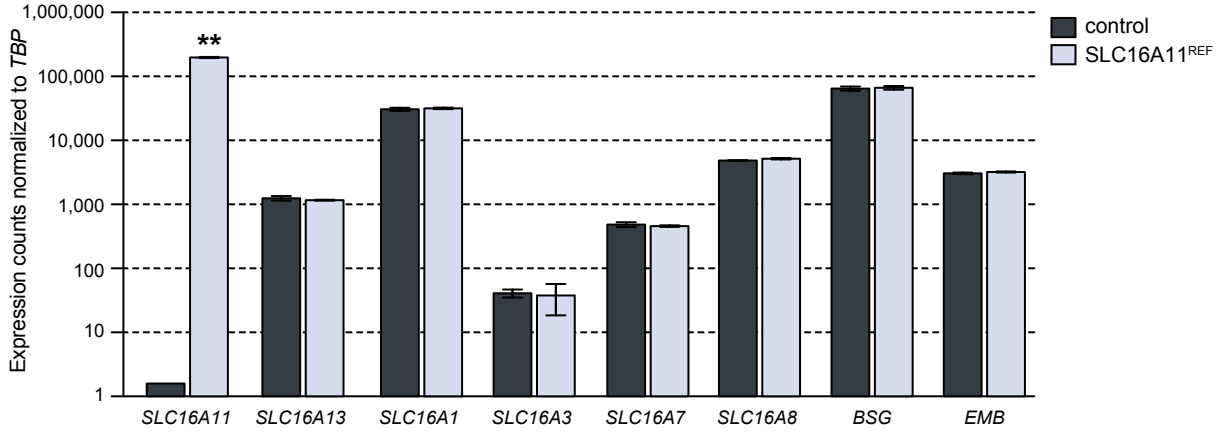
Figure S3

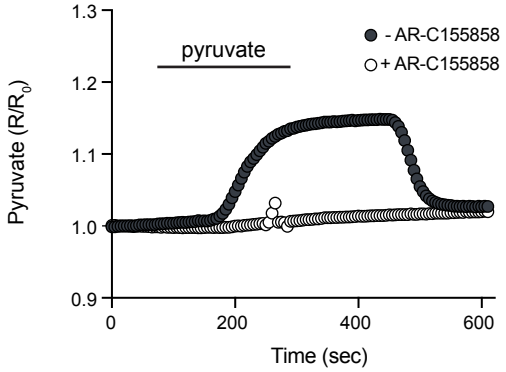
A

		TMD 1	TMD 8
	SLC16A11	PPDGGWGWVVAAAAFAINGLSYGLLRSLGLAFPDL	VVAVAAMGDAGARLVCGWLADQGW
Category I	SLC16A1	PPDGGWGWAVVIGAFISIGFSYAFPKSITVFFKEI	LLSILAFVDMVARPSMGLVANTKP
	SLC16A3	APDGGWGWAVLFGCFVITGFSYAFPKAVSVFFKEL	LLTILGFIDIFARPAAGFVAGLGK
	SLC16A7	PPDGGWGWIVVGAAFISIGFSYAFPKAVTVFFKEI	LLSVMAFVDMFARPSVGLIANSKY
	SLC16A8	PPDGGWGWVVLGACFVVTGFAYGFPKAVSVFFRAL	LLSIVGFVDIVARPACGALAGLAR
Category II	SLC16A2	PPEGGFGWVVVFAATWCNGSIFGIHNSVGILYSML	LLVCIGATSGLGRLVSGHISDSIP
	SLC16A10	PPEGGWGWLVMLAAMWCNGSVFGIQNACGVLFVSM	VLMCIGVTSGVGRLLFGRIADYVP
	SLC16A13	PPDGGWGWVVVLSAFFQSALVFGVLRSFGVFFVEF	LLSVVAISDLVGRVVSGWLGDAVP
	SLC16A6	VPDGGWGWAVAVSFFFVEVFTYGIIKTFGVFFNDL	LLSTMAIAEVFGRIGAGFVLNREP
	SLC16A12	PPDGGWGWMIVAGCFLVTICTRAVTRCISIFFVEF	LMSILGVIDIIGNITFGWLTDRRC
	SLC16A4	TLDGGWGWMIVIHFFLVNVFVMGMTKTFAIFFVVF	LVSVAGILETVSQIISGWVADQNW
	SLC16A5	RADGSWAWVVLLATMVTQGLTLGFPTCIGIFFTEL	LISIIGFSNIFLRPLAGLMAGRPA
	SLC16A9	SPDGGWGWVIVFVSFLTQFLCYGSPLAVGVLYIEW	LISIIGIMTAVGKLLLGILADFKW
	SLC16A14	NIDGGWAWMMVLSSFFVHILIMGSQMALGVLNVEW	LTSIIAIVHIFGKVILGVIADLPC

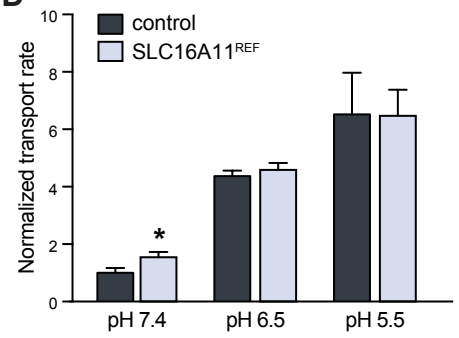
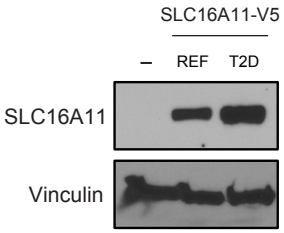
B



C



D



E