

Construct		cRNA (ng)	Basal ³⁶ Cl ⁻ flux			Inhibition by pH _o			Inhibition by pH _i (Cl ⁻ /Cl ⁻ exchange)			Stimulation by NH ₄ ⁺			Inhibition by calmidazolium		
			kmin ⁻¹ (pH _o 7.4)	s.e.m	n	[pH _{o(50)}]	s.e.m	n	k (+butyrate) k(post- butyrate)(%)	s.e.m	n	NH ₄ ⁺ (%) stimulation	s.e.m	n	Calmidazolium (10μM) Inhibition (%)	s.e.m	n
AE2 wt		10	0.035	0.004	30	6.90	0.06	21	16.7	3.2	13	178.4	13.8	14	33.4	2.4	14
AE2a Δ659 (660-1237)	1	0.5	0.033	0.005	13	6.36	0.07	8	96.1	3.8	4						
*AE1 ₍₁₋₄₂₂₎ /AE2 ₍₇₀₄₋₁₂₃₇₎	2	0.5	0.042	0.007	13				42.3	3.9	25						
AE2 ₍₁₋₁₁₁₉₎ /AE1 ₍₈₁₂₋₉₂₉₎	3	1-10	0.022	0.002	21	7.24	0.10	11	20.2	2.5	13	132.5	10.1	13	57.7	2.7	13
AE2 ₍₁₋₉₂₀₎ /AE1 ₍₆₁₃₋₉₂₉₎	4	5-10	0.038	0.003	36				82.4	3.1	15	107.7	2.7	15	47.7	2.5	14
AE2 ₍₁₋₉₂₀₎ /AE1 ₍₆₁₃₋₈₁₁₎ /AE2 ₍₁₁₂₀₋₁₂₃₇₎	5	25	0.003	0.001	6				87.2	9.6	8						
AE2 ₍₁₋₇₀₃₎ /AE1 ₍₄₂₃₋₈₁₁₎ /AE2 ₍₁₁₂₀₋₁₂₃₇₎	6	10-14	0.021	0.002	26				96.2	3.0	7	88.5	2.5	10	33.7	1.2	9
AE2 ₍₁₋₇₀₃₎ /AE1 ₍₄₂₃₋₆₁₂₎ /AE2 ₍₉₂₁₋₁₂₃₇₎	7	10-14	0.027	0.004	25				100.7	2.6	17	89.9	4.2	7	41.7	2.4	9
AE1 ₍₁₋₆₁₂₎ /AE2 ₍₉₂₁₋₁₂₃₇₎	8	10	0.024	0.002	34				112.9	4.8	18	84.1	2.5	13	33.5	2.7	12
*AE2 ₍₁₋₇₀₃₎ /AE1 ₍₄₂₃₋₉₂₉₎	9	25	0.015	0.006	10				108.2	10.5	5						
AE1-AE2(EC3)	10	10	0.025	0.008	6	5.65	0.12	17	85.2	4.1	9						
AE2-AE1(EC3)	11	10	0.020	0.005	5	6.71	0.09	22	28.7	4.9	8						
eAE1		10	0.037	0.005	16	5.59	0.25	10	86.9	5.8	9	91.1	2.0	7	99.9	6.3	13

Supplemental Table 3. ³⁶Cl⁻ efflux data for AE chimeras.