Figure 1S

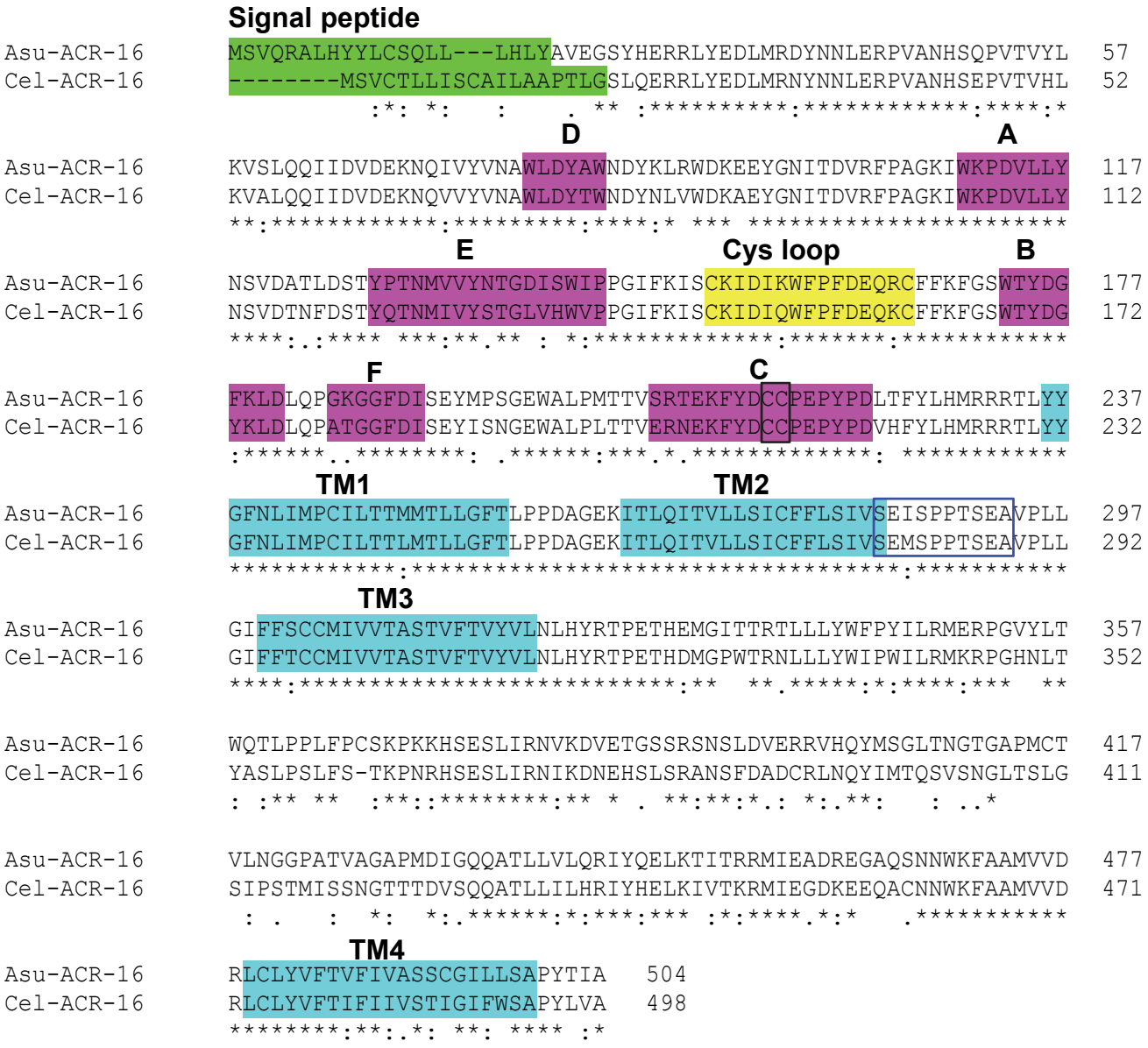

Signal peptide
D
A
E
Cys loop
B
F
C
TM1
TM2
TM3
TM4
Asu-ACR-16 MSVQRALHYYLCSQLL---LHLYAVEGSYHERRLYEDLMRDYNNLERPVANHSQPVTVYL 57
Cel-ACR-16 --------MSVCTLLISCAILAAPTLGSLQERRLYEDLMRNYNNLERPVANHSEPVTVHL 52
Asu-ACR-16 KVSLQQIIDVDEKNQIVYVNAWLDYAWNDYKLRWDKEEYGNITDVRFPAGKIWKPDVLLY 117
Cel-ACR-16 KVALQQIIDVDEKNQVVYVNAWLDYTWNDYNLVWDKAEYGNITDVRFPAGKIWKPDVLLY 112
Asu-ACR-16 NSVDATLDSTYPTNMVVYNTGDISWIPPGIFKISCKIDIKWFPFDEQRCFFKFGSWTYDG 177
Cel-ACR-16 NSVDTNFDSTYQTNMIVYSTGLVHWVPPGIFKISCKIDIQWFPFDEQKCFFKFGSWTYDG 172
Asu-ACR-16 FKLDLQPGKGGFDISEYMPSGEWALPMTTVSRTEKFYDCCPEPYPDLTFYLHMRRRTLYY 237
Cel-ACR-16 YKLDLQPATGGFDISEYISNGEWALPLTTVERNEKFYDCCPEPYPDVHFYLHMRRRTLYY 232
Asu-ACR-16 GFNLIMPCILTTMMTLLGFTLPPDAGEKITLQITVLLSICFFLSIVSEISPPTSEAVPLL 297
Cel-ACR-16 GFNLIMPCILTTLMTLLGFTLPPDAGEKITLQITVLLSICFFLSIVSEMSPPTSEAVPLL 292
Asu-ACR-16 GIFFSCCMIVVTASTVFTVYVLNLHYRTPETHEMGITTRTLLLYWFPYILRMERPGVYLT 357
Cel-ACR-16 GIFFTCCMIVVTASTVFTVYVLNLHYRTPETHDMGPWTRNLLLYWIPWILRMKRPGHNLT 352
Asu-ACR-16 WQTLPPLFPCSKPKKHSESLIRNVKDVETGSSRSNSLDVERRVHQYMSGLTNGTGAPMCT 417
Cel-ACR-16 YASLPSLFS-TKPNRHSESLIRNIKDNEHSLSRANSFDADCRLNQYIMTQSVSNGLTSLG 411
Asu-ACR-16 VLNGGPATVAGAPMDIGQQATLLVLQRIYQELKTITRRMIEADREGAQSNNWKFAAMVVD 477
Cel-ACR-16 SIPSTMISSNGTTTDVSQQATLLILHRIYHELKIVTKRMIEGDKEEQACNNWKFAAMVVD 471
Asu-ACR-16 RLCLYVFTVFIVASSCGILLSAPYTIA 504
Cel-ACR-16 RLCLYVFTIFIIVSTIGIFWSAPYLVA 498

Figure 2S

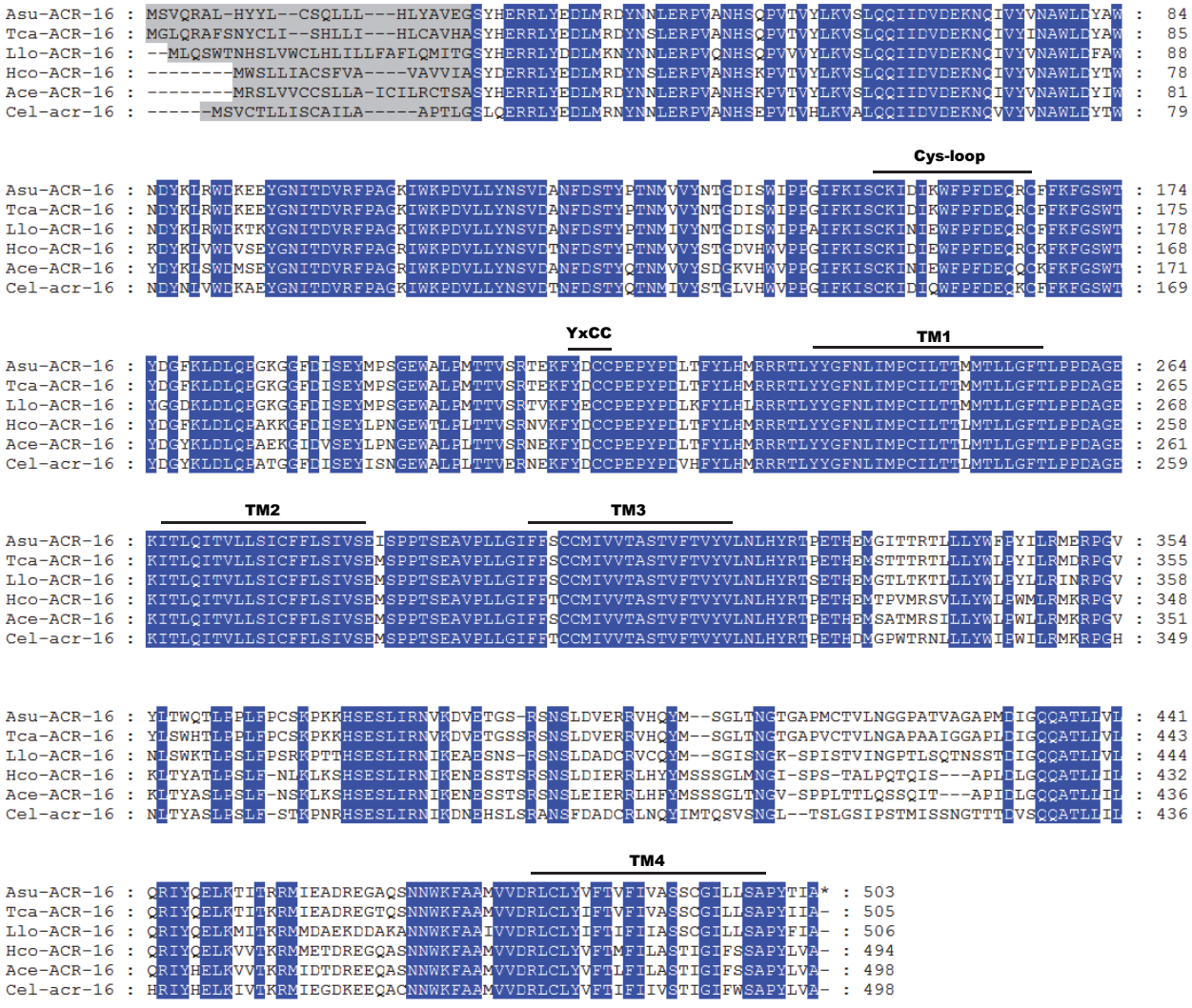


Figure 3S

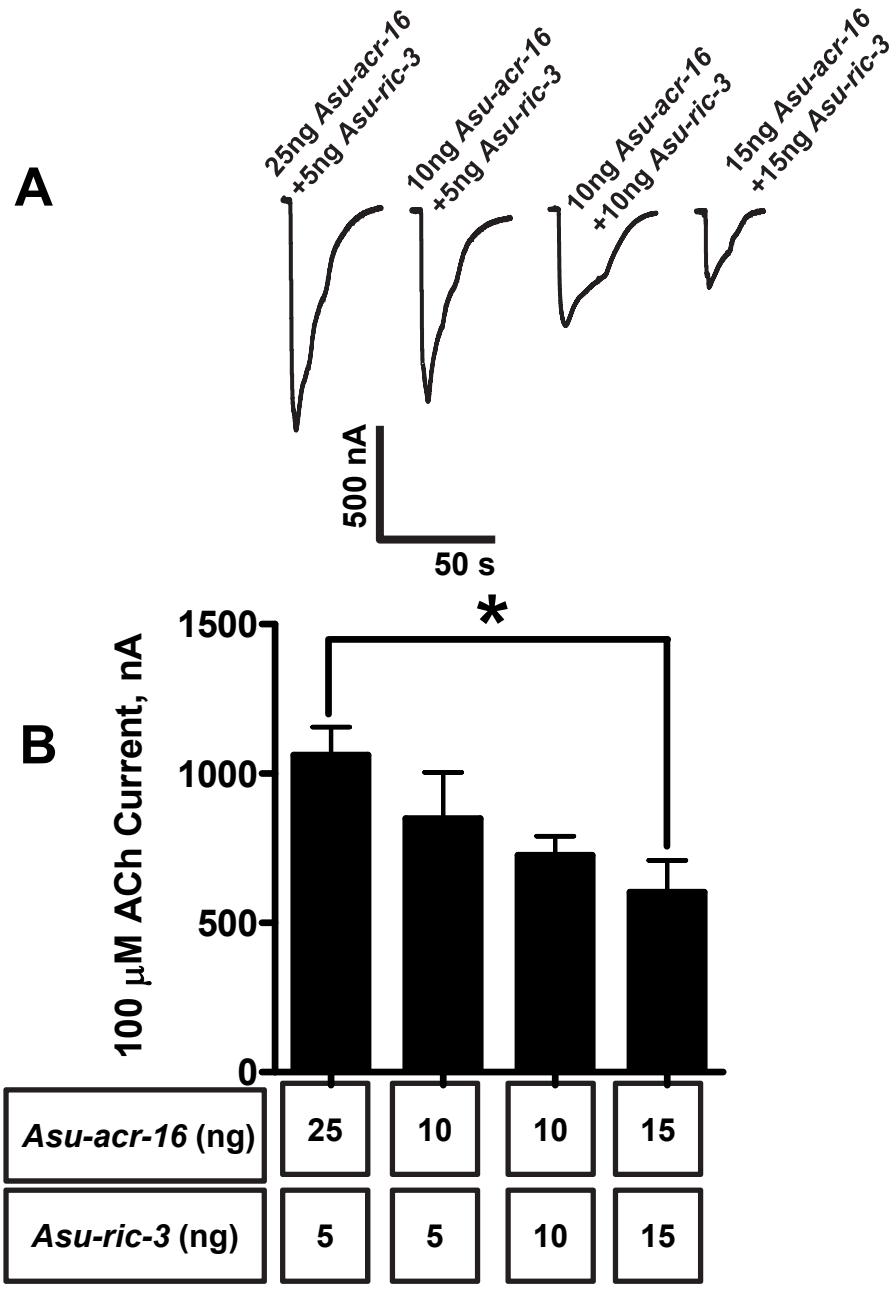
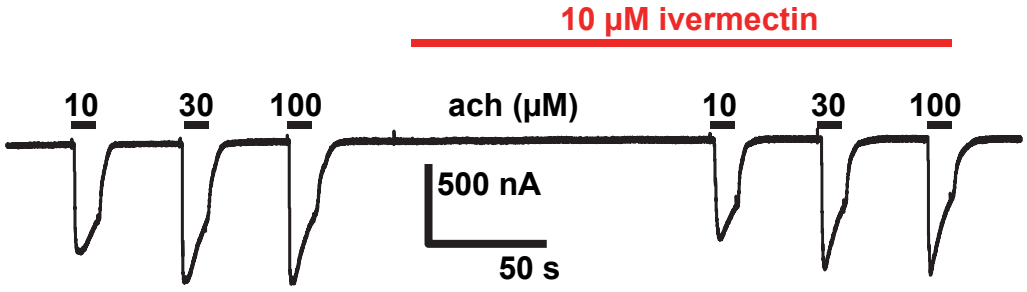
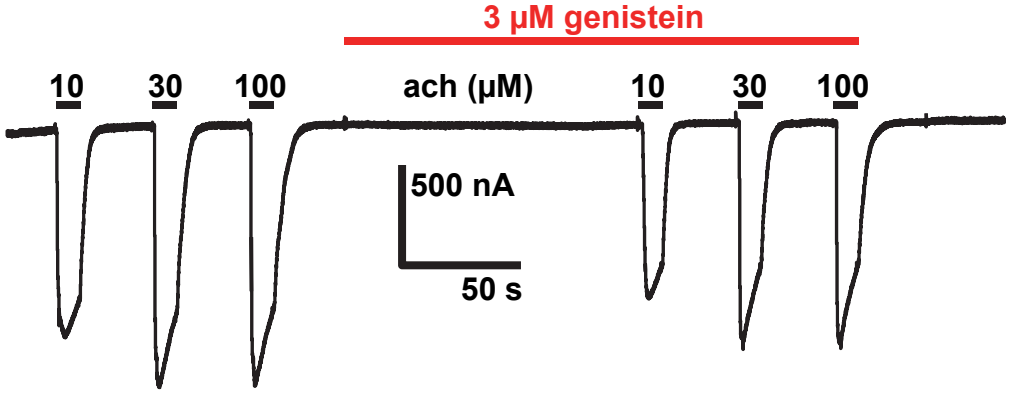

A
25ng Asu-acr-16
+5ng Asu-ric-3
10ng Asu-acr-16
+5ng Asu-ric-3
10ng Asu-acr-16
+10ng Asu-ric-3
15ng Asu-acr-16
+15ng Asu-ric-3
500 nA
50 s
B
100 μM ACh Current, nA
1500
1000
500
0
*
Asu-acr-16 (ng)
25
10
10
15
Asu-ric-3 (ng)
5
5
10
15

Figure 4S

A



B



C

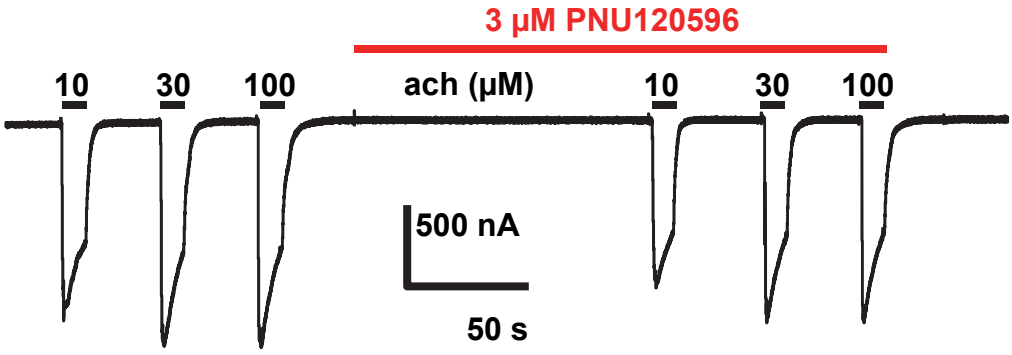
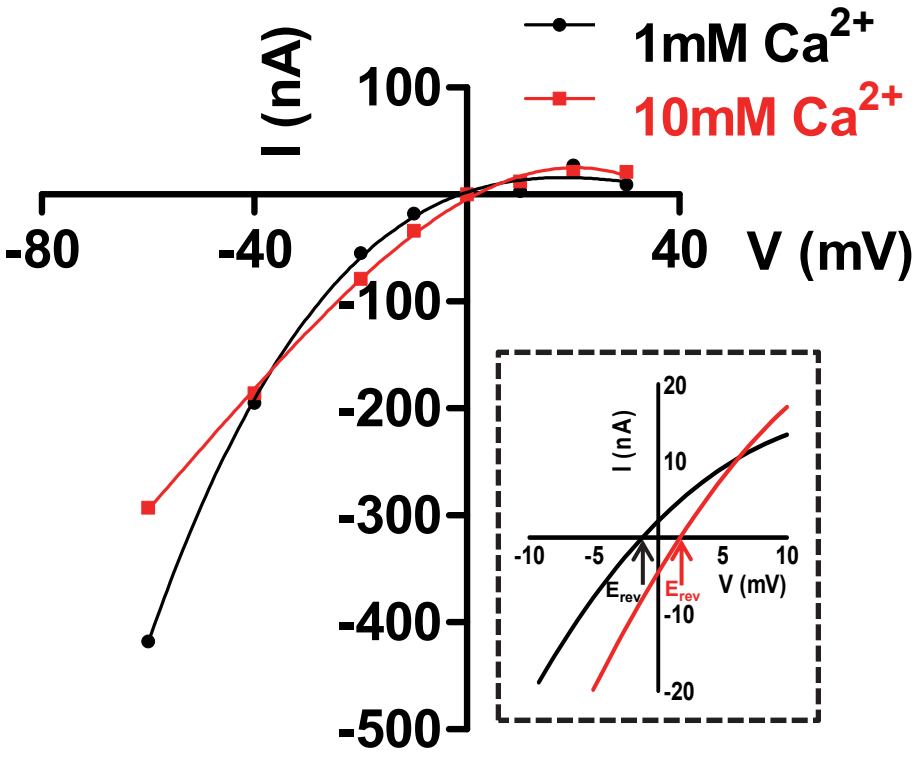


Figure 5S


1mM Ca2+
10mM Ca2+
I (nA)
100
-100
-200
-300
-400
-500
-80
-40
40
V (mV)
20
10
-10
-20
-10
-5
5
10
V (mV)
Erev
E'rev