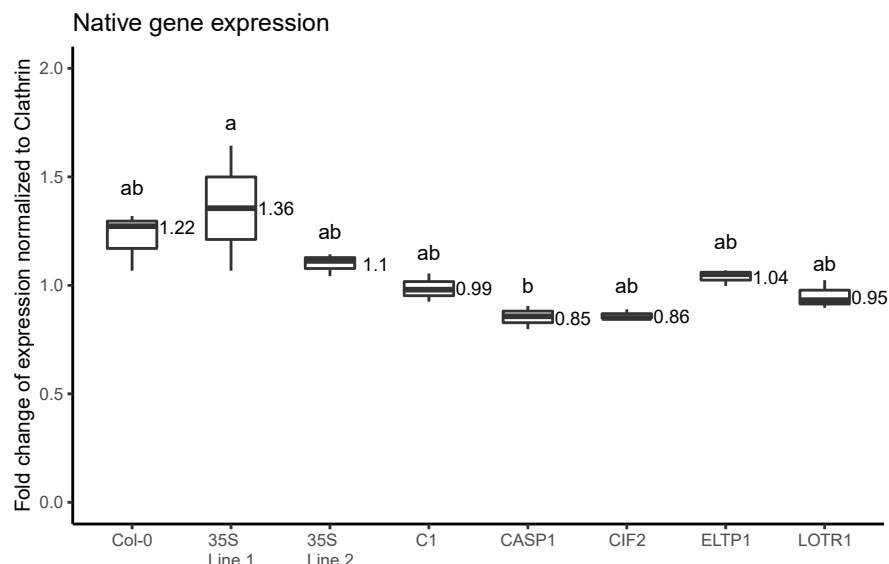
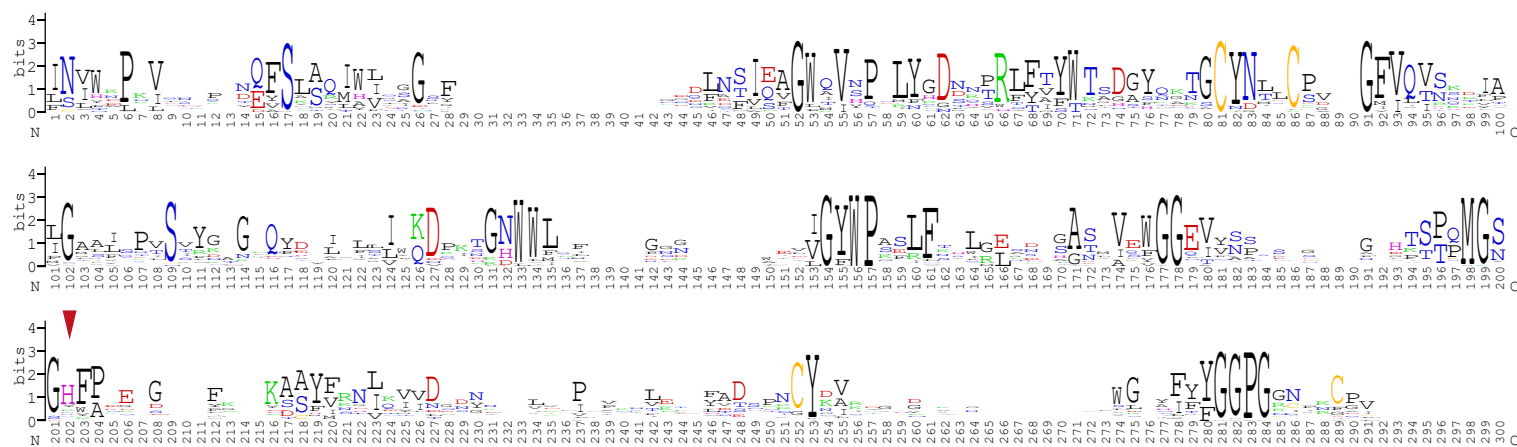


A



B

Promoter driving transgene expression



C

mepS (E.coli)	CSANNTAKNMHPETRAV--GSETSSLQASQDEFENLVRNV DVKSRIM-DQYAD-----
Neprosin	QGANATINIWEPNLKNPNGDFSLTWIWI SAGS-GSSLNTIEAGWQVYPGR TGDSQPRFFI
LOTR1	-----INVWAPRVTDAY-EFSLSQIWLISGSFGHDLNTIEAGWQVSPELYGDNYP RFFFT
At1g10750	-----INVWAPQVQNQY-EFSLSQIWIISGSFGNDLNTIEAGWQVSPELYGDNYP RFFFT
At1g70550	-----INVWSPRVTSQY-EFGLSQIWVIAGSFTHDLNTIEAGWQISPELYGDTYPRFF FT
At1g23340	-----INVWTPRVISQY-EFSLSQIWI IAGSFAGDLNTIEAGWQISPELYGDTNPRFF FT
	: * : : . . : : . *
mepS (E.coli)	-WKGVRYRLGGSTKKGIDCSGFVQRTFREQFGLLEL-PRSTYE--QQEMGKSVSR-----
Neprosin	YWTADGYTSTGCDY--LTCPGFVQTNNYYAIGMALQP-SVYGGQQYELNESIQ RDPATGN
LOTR1	YWTTDAYQATGCYN--LLCSGFVQTNNKIAIGA AISPRSSYNGRQFDIGLMIWKDPKHGH
At1g10750	YWTNDAYQATGCYN--LLCSGFVQTNSEIAIGA AISPSSSYKGGQFDITLLIWKDPKHGN
At1g70550	YWTSDAYRTTGCYN--LLCSGFVQTNRRIAIGA AISPRSSYKGGQFDISLLIWKDPKHGH
At1g23340	YWTSDAYQATGCYN--LLCSGFVQTNNR IAIGA AISPVSSYKGGQFDISLLIWKDPKHGH
	* . * . . : * . * * * . : * * * * * : * * * * * : . .
mepS (E.coli)	-----SNLRTGDLVLFRA G-----STGRHVGIYIGNNQFVHAST
Neprosin	WWLYL-WGTVVGYWPASIYNSITNGADTVEWGGEIYDSSGTGGFHTTTQMCSGHF PTEGY
LOTR1	WWLELGNGLLVGYWPAFLF SHLRSHASMVQFGGEV VNSR-SSGAHTGTQMCSGHFADEGF
At1g10750	WWLEFGSGILVGYWPSFLF THLKEHASMVQYGG EIVNSS-PFGAHTSTQMCSGHFAEEGF
At1g70550	WWLQFGSGALVGYWPAFLF THLKQHGS MVQFGGEIVNNR-PGGSHTTTQMCSGHFAEGEF
At1g23340	WWLQFGSGTLVGYWPVSLF THLREHGNMVQFGGEIVNTR-PGGSHTSTQMCSGHFAEGEF
	. : : * . * * * . : * * * . : * * * .
mepS (E.coli)	SSGVIISSMNEPY-WKKRYNEA---RRVLSRS-----
Neprosin	GKASYVRDLQCVD TYGNVISPTANSFQGIAPAPNCYNYQFQQGSSEL---YLFYGGPGCQ
LOTR1	EKAAYFRNLQVVD-WDNNLLPLKN-LHVLADHPAC YD--IRQGKNNVWGTYFYFGP---
At1g10750	TKSSYFRNIQVVD-WDNNLVPSPN-LRVLADHPNC YD--IQGGSNRAWGSYFYFGP---
At1g70550	GKASYFRNLQIVD-WDNTLIPASN-LKILADHPNC YD--IRGGTNRVWGNFYFYFGP---
At1g23340	GKASYFRNLQMVD-WDNTLIPISN-LKVLADHPNC YD--IRGGVNRVWGNFFYFGP---
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Fig. S5