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	Figure S1
Sequence Logo	HOBLARPPERRSSNURZGERTPENYNDIELECG GE SVOUERNGGKCGECGDEVELERPRPHFAGGEFASGII
0, CspAA15a, Ga0225328, 1006044_1 MnAA15b, Mnat, 07964 MnAA15b, Mnat, 07964 MnAA15c, Mnat, 14519 ZnAA15b, VP, 02191363.1 ZnAA15c, VP, 02191363.1 ZnAA15c, VP, 021912720.1 ZnAA15c, VP, 021912720.1 ZnAA15c, VP, 02191272.1 TdAA15b, SIW61373.2 CgAA15c, partial CgAA15c, partial CgAA15c, PP, 02371807.1 CsAA15c, VP, 02371807.1	Image: Construction Image: Construction<
Sequence Logo	VREVEASS THE TATE OF THE TATE OF THE TATE OF THE TAKEN TAKEN TAKEN TAKEN TAKEN TAKEN TAKEN TAKEN TAKEN TAK
CspAA15a, Ga0225328,1006044_1 MnAA15b,Mnat,07964 MnAA15b,Mnat,07964 MnAA15b,Wna2,07964 MnAA15b,Wn021913634.1 ZnAA15b,XP021912720.1 ZnAA15b,XDR18045.1 ZnAA15b,SW61372.1 TdAA15b,SW61372.1 TdAA15b,SW61373.2 CgAA15b,Cpartial CgAA15b,Cpartial CgAA15b,Cpartial CgAA15b,Cpartial CgAA15b,XP023718017.1 CsAA15b,WP02371807.1 CsAA15b,WP02371807.1 CsAA15b,WP02371807.1 CsAA15b,WP023723964.1 CsAA15b,WP16655.1	VARYYKAGGGGSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
4- Sequence Logo	CTCVLOUTYTON DICENTGALOCOPPETERSCADY IVPSSAGAPETERGNEPNPF+LYXBRENSESLYSPIERTEVPYPATEWWLXINT
CspAA15a, Ga0225328,1006044_1 MnAA15a, Mnac, 07964 MnAA15a, Mnac, 07964 MnAA15c, Mnac, 17964 MnAA15c, Mnac, 174519 ZnAA15b, XP, 021913634.1 ZnAA15c, XP, 021920720.1 ZnAA15d, XP, 021920720.1 ZnAA15d, XP, 021922611.1 TdAA15a, SW61373.2 CgAA15d, SW61373.2 CgAA15b CgAA15b, Cpartial CgAA15b, Cpartial CgAA15b, ZP, 023718017.1 CSAA15a, XP, 023718017.1 CSAA15a, XP, 023718188.1 CSAA15a, XP, 023718188.1	CK Q C V L Q W Y Y T G N S W G I C C E D G T G A L G C G P C E F R A C A D V E I V D P S G L A D E T P F Y N E I P K H D K N K N T E E T S A S T E Q T P V P E P A T N W L V T V I C E R C V L Q W Y Y T G N S W G I C C E N G T G A L G C G P C E F R A C A D V E I V D P S G L A D E T P F Y N E I P K H D K N K N T E E T S A S T E Q T P V P E P A T N W L V T V I C T Q C T L Q W Y Y T G N S W G I C C E N G T G T E T F R N C A D V E I V D P S G L A D E T P F Y N E I P K H D K N K K E E T S A S T E Q T P V P Y S T T G W W L I I M T C T Q C V L Q W Y Y T G N S W G T C E N G T G E T F R N C A D V E I V D S S G S A D E T P F Y N E I P T H D E N K N K E E T S A S T E Q T P V P Y S T T G W W L I I M T C T Q C V L Q W Y Y Y T G N S W G T C C E D G T G A L G C G P C E T F R N C A D V T I V T S T A G L P P I F I G Q Q D N P F L L Y Y R D F R S P I L V S P L L
Sequence Logo	AACAL ASAVI ALVVIXX YHAPPAVKR WLGIEGERSKRANS, OOPVPEPRI KKSESSRANE LEGRAGA DVVCI DVCI VY SOCRADRORCY
CspA415a_Ga0225328_1006044_1 MnA415b_Mnat_07964 MnA415b_Mnat_07964 MnA415b_Wnat_07964 ZnA415b_WP_021913634.1 ZnA415b_WP_0219121720.1 ZnA415b_KDR18045.1 ZnA415b_SIW61373.2 CgA415b CgA415b CgA415b CgA415b CgA415b	A I CALIAVAVTLALVYLYYYHAGDAVKRWLGSER FQKQAQQTQQPVPPPRU-KKQQSSNINPDI
CgAA15d_partial CsAA15c_XP_023718026.1 CsAA15b_XP_023718017.1 CsAA15b_XP_023718188.1 CsAA15d_XP_023723964.1 CsAA15d_XP_023723966.1	AACTLIAVAITLALVYFYYYHAGDAVKRWLGGE8F8K8A88F88FVFFFRY-KK8KSSTNNFDV

Figure S2



Figure 2







Figure 3





◆L-Cysteine ■Galic Acid ▲Pyrogallol ×Ascorbic Acid



Figure S5



Figure S6



Α.

В.

