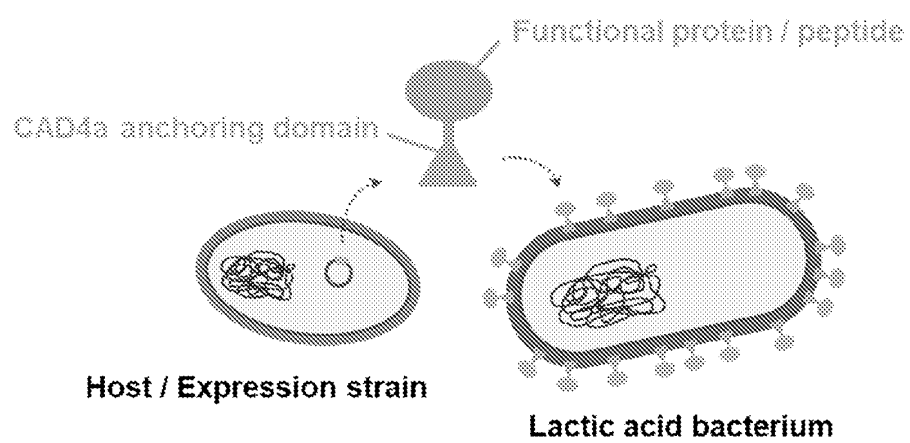


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**Figure 1**

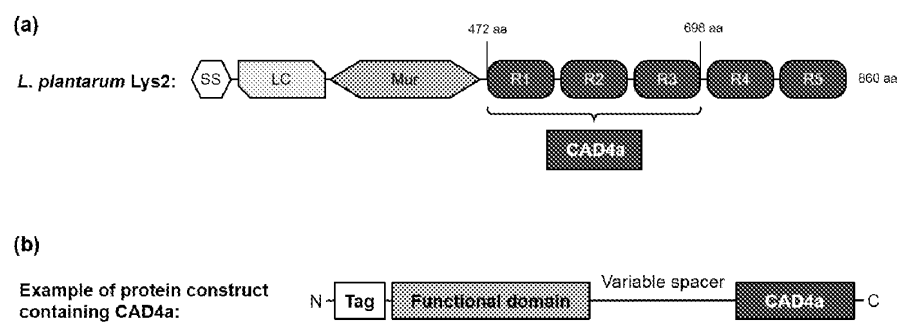


Figure 2

Sequence 1: *L. plantarum* Lys2 autolysin (SEQ ID NO: 1)

MNFKSQNPIDASQSERFKLYKSGKLWLVLVAGLTFFSFLGGSVLNDTNVHADATNATTTSSSAASTASSAS
VATSSAASDETTKATSVSSSAATQVTSAAATKTTTQAATASSSAATSQSTSTASSSTSQATKTASSAAT
STSATATSQATSVASSTATTTQVSHSTASSTAASAASSTATVKAVKAASSTVSSAATTATKATAKVAAVA
YTAATTSSDVTIGDITRPRVDVVDVASYQSTMTQSDFNKLKAAGVKTVIVKSTEGTDYTNPAALNQA
KMANKAGLNVDIFYHYATFSTADAAKSEATNMAGFLVKNNVSTKVLLFADMEDSSSYSVNATANLNAFWS
TLDSEFGYNHGVYTSNSYLYRDAVVKTVGQSRVWRAQYPYTPSANNLWNTNDGAWQFSDTALLPSSGSDY
TGYIDVSDIDYNGLTEDSAGNTFVTTTSSNDITTTSEVTITDISATTNTSISSTTKKASGWTFTKNTAIK
SAASDSAKTVGTYSKGNRVYNAEITTNGETWLRVLSYSGSEHFVKIAAAKTTTTKPAASTSKTVTKNE
TGTYKFTKTTAIKGSVSDSAKTLGTYYKGDVYVYNAKVTKNGETWLRVLSYSGAQHYVKISGAATSTTT
TKPATSSSKTVTKAETGTYKFTGTTAIKGSVNDSAKTLGTYYKGDVYVYNAKVTKNGQTLWLRVLSYSGA
QHYVKISGAATTTTTSSKSTATASAKTVAQSGTYKFAKTTAIKSSASDAASTVGTYYKGNVTNYNNAKVT
TNGQTLWLRVTSYSGAQHYVKVSGGAATTTSSSASKTTAAAGTYTFTTTNIRTAASLNASVVGQYSAGE
SVYYIGTVSADGYQWLKYLNSGAYHYVAKIG

Sequence 2: R1 of Lys2 CWT (SEQ ID NO: 2)

SGWTFTKNTAIKSAASDSAKTVGTYSKGNRVYNAEITTNGETWLRVLSYSGSEHFVKIAAAKTTTTK
PAASTSKTVTKNE

Sequence 3: R2 of Lys2 CWT (SEQ ID NO: 3)

TGTYKFTKTTAIKGSVSDSAKTLGTYYKGDVYVYNAKVTKNGETWLRVLSYSGAQHYVKISGAATSTTT
TKPATSSSKTVTKAE

Sequence 4: R3 of Lys2 CWT (SEQ ID NO: 4)

TGTYKFTGTTAIKGSVNDSAKTLGTYYKGDVYVYNAKVTKNGQTLWLRVLSYSGAQHYVKISGAATTTTT
SSKSTATASAKTVAQ

Sequence 5: R4 of Lys2 CWT (SEQ ID NO: 5)

SGTYKFAKTTAIKSSASDAASTVGTYYKGNVTNYNNAKVTTNGQTLWLRVTSYSGAQHYVKVSGGAATTTS
SSASKTTAAA

Sequence 6: R5 of Lys2 CWT (SEQ ID NO: 6)

GTYTFKTTTNIRTAASLNASVVGQYSAGESVYYIGTVSADGYQWLKYLNSGAYHYVAKIG

Figure 3 (continued)

Sequence 7: CAD4a (SEQ ID NO: 7)

SGWYTFKNTAIKSAASDSAKTVGTYSKGNRVYYNAEITTNGETWLRVLSYSGSEHFVKIAAAKTTTK
PAASTSKTVTKNETGTYKFTKTTAIKGSVSDSAKTLGTYKGDVYYNAKVTKNGETWLRVLSYSGAQH
YVKISGAATSTTTKPATSSSKTVKAETGTYKFTGTTAIGSVNDSAKTLGTYKGDVYYNAKVTKN
GQTWLRVLSYSGAQHYVKISG

Sequence 8: Lys2 spacer. (SEQ ID NO: 8)

VTTTSSNDTTTSEVTTDTSATNTSTSSSTTKKA

Sequence 9: synthetic spacer. (SEQ ID NO: 9)

(GGSGGGSGGGSG)_x

Sequence 10: SOD. (SEQ ID NO: 10)

MAKGVAVLSSSEGVA GTILFTQEGDGPTT VTGNISGLKPGLHGFHVHALGDTTNGCMSTGPHFNPAGKE
HGSPEDETR HAGDLGNITVGDDGTACFTIVDKQIPLTGPHSIIGRAVVVHADPDDLKGGGHELSKSTGN
AGGRIACGIIGLQG

Figure 3 (end)

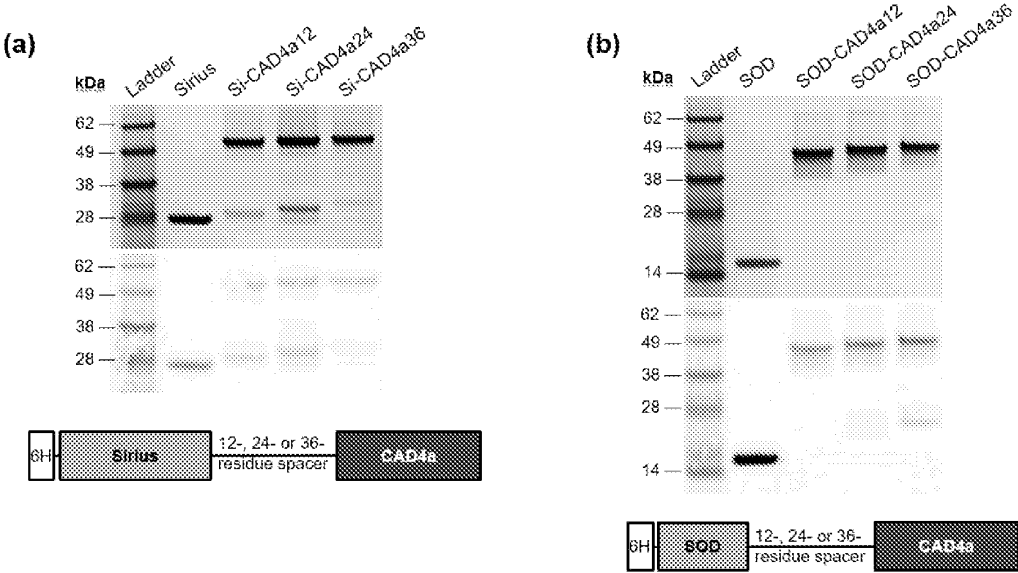
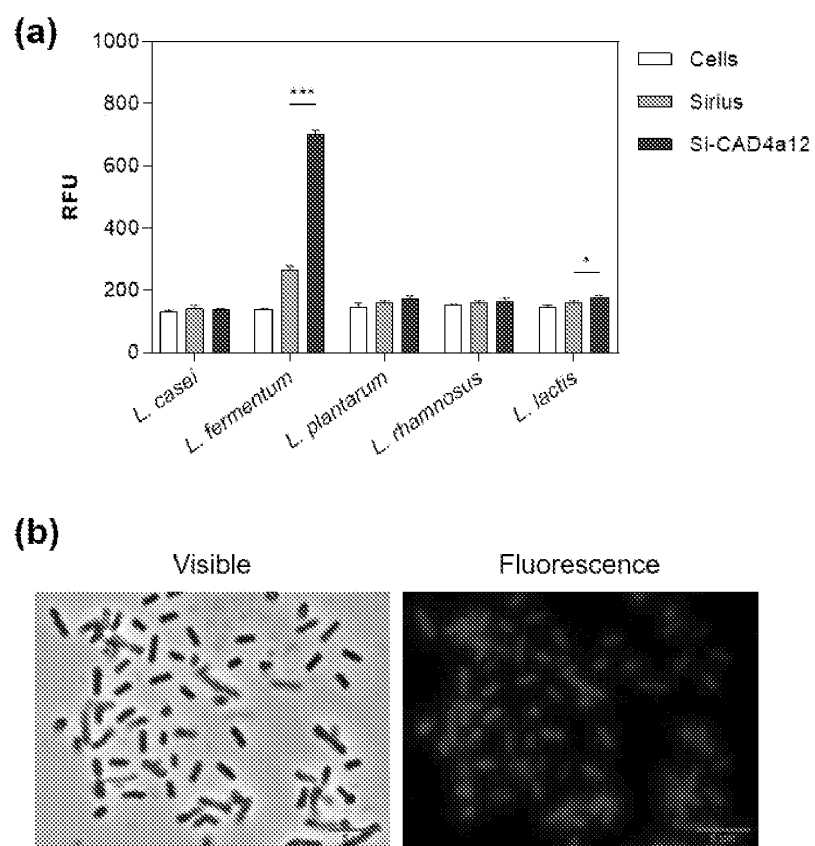
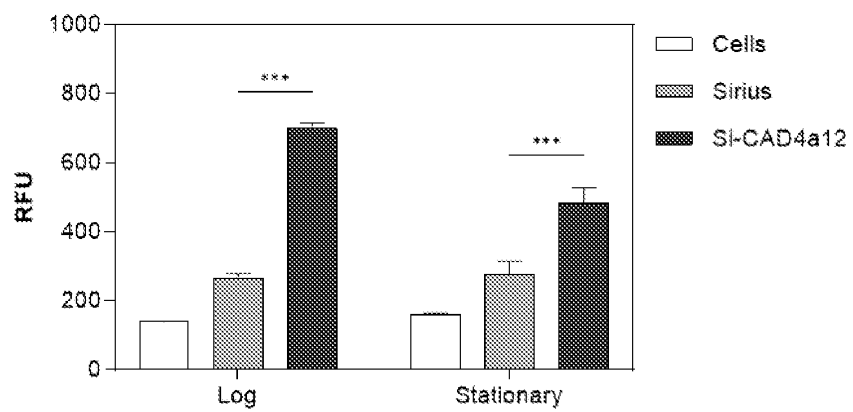


Figure 4

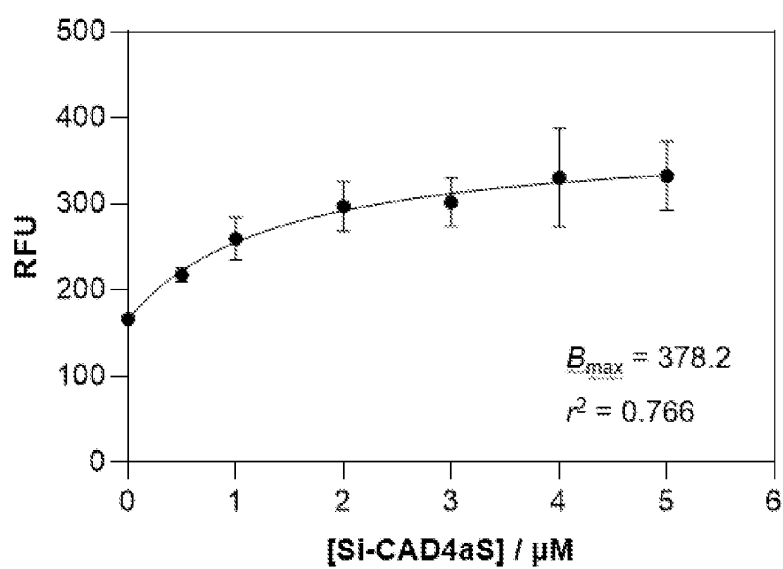
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**Figure 5**

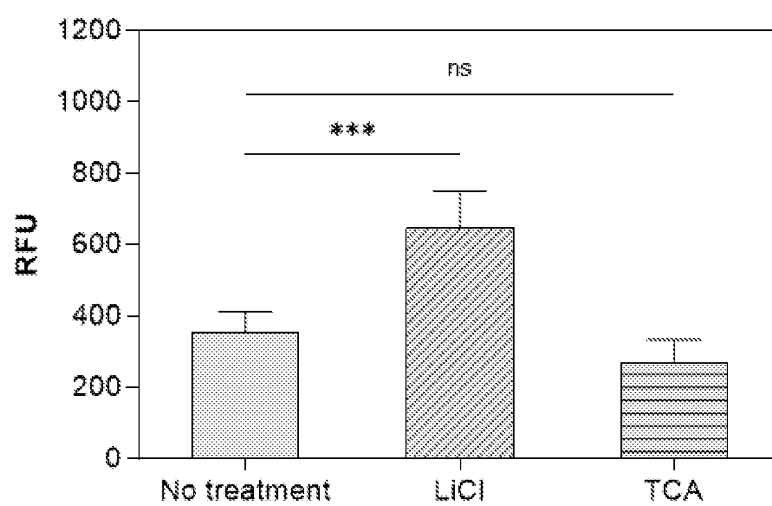
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**Figure 6**

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**Figure 7**

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**Figure 8**

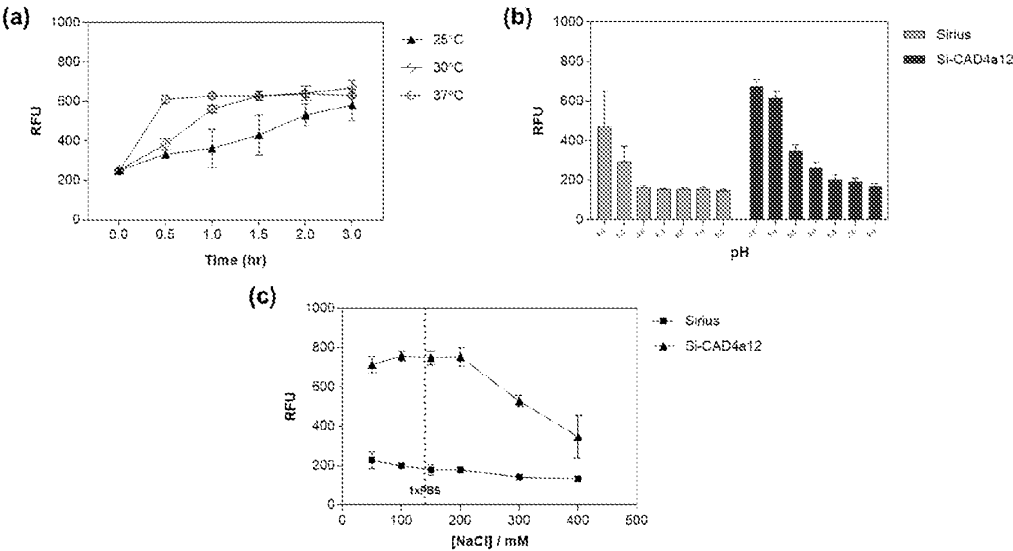


Figure 9

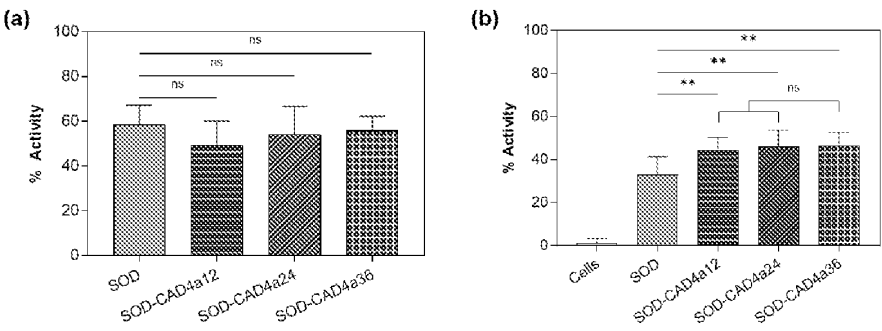
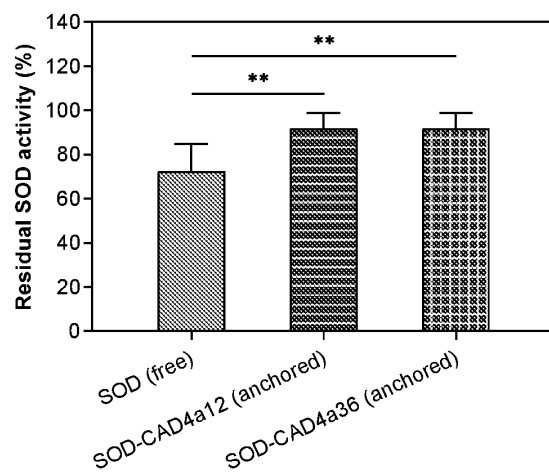


Figure 10

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**Figure 11**

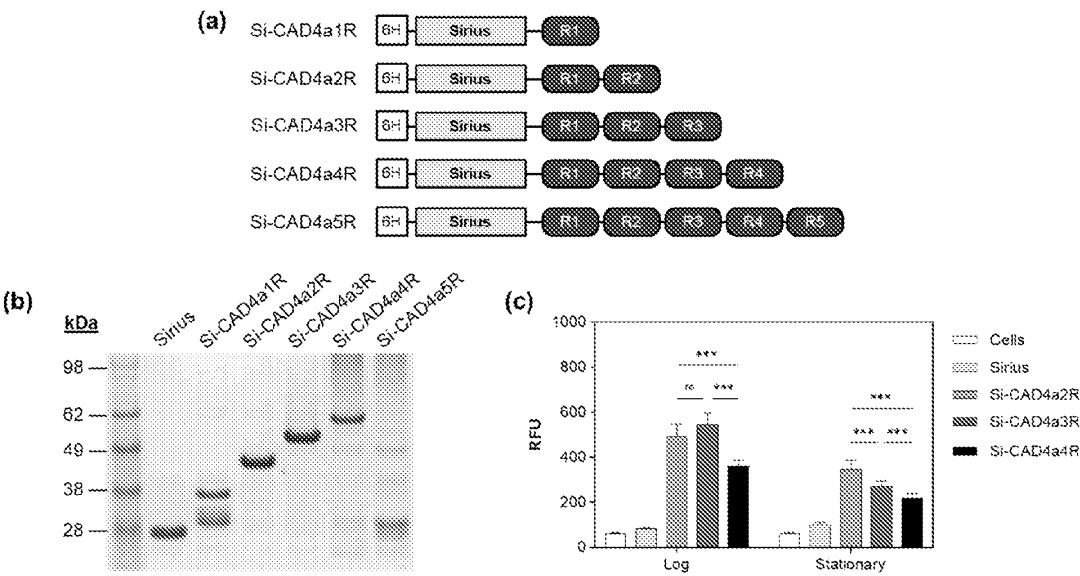


Figure 12