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(54) Title: BRAZZEIN VARIANTS

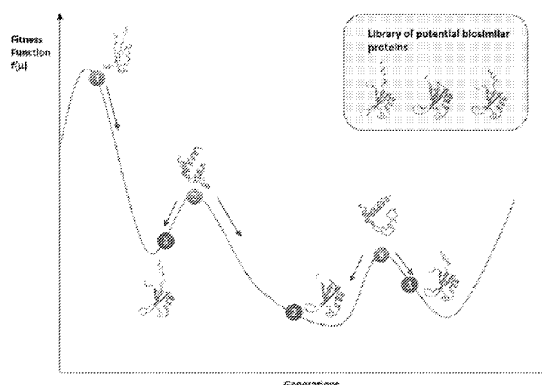


Fig. 1

(57) Abstract: There is provided a brazzein variant comprising $X_1X_2KCKX_6X_7YX_9NYPX_{13}X_{14}KCX_{17}X_{18}AX_{20}QCNYDCKLD-KHARX_{34}GECFYDEX_42RNX_{45}X_{46}CX_{48}CDYCX_{53}YX_{55}$ (SEQ ID NO: 1), wherein X_1 , X_{20} , and X_{47} are each independently an amino acid with polar uncharged side chain, X_2 is an amino acid with a negatively charged side chain, X_6 is a glutamine (E) or an amino acid with positively charged side chains, X_7 , X_{13} , X_{18} , X_{45} , and X_{48} are each independently an amino acid with hydrophobic side chain, X_{17} is a lysine (K) or an amino acid with polar uncharged side chain, X_{14} is an arginine (R) or an amino acid with polar uncharged side chain, X_9 is an arginine (R) or an amino acid with negatively charged side chain, X_{42} is an amino acid with positively charged side chain, X_{34} is an alanine or an amino acid with polar uncharged side chain, X_{46} is an amino acid with polar uncharged side chain, X_{53} is a glutamic acid, a glutamine, or a lysine, and X_{55} is a proline, an arginine, a threonine, or no residue. Also disclosed are polynucleotides encoding the brazzein variant, a cell expressing the brazzein variant, and a method of producing the brazzein variant.

[Continued on next page]

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