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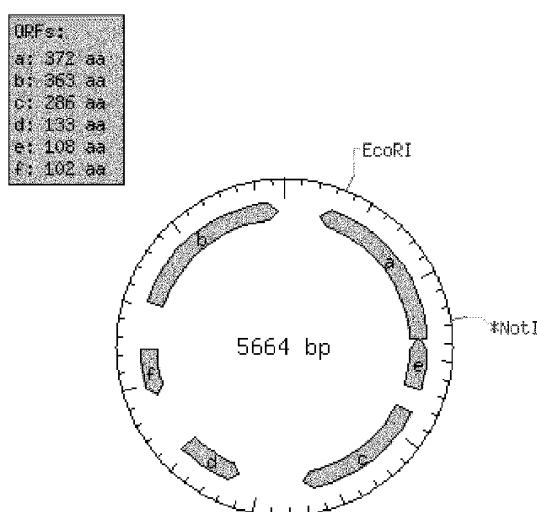


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(54) **Title:** ENGINEERED POLYPEPTIDES DERIVED FROM VARIABLE DOMAIN OF ADENOVIRUS PENTON BASE

Figure 4



(57) **Abstract:** The present invention relates to an engineered polypeptide derived from adenovirus pentane base protein. The polypeptide of the invention is based on the „upper“ alpha-helical domain of the adenovirus pentane base as shown in the pentane base atomic structure, but it lacks essentially completely any amino acids of the beta-barrel sheet domain showing a jellyroll fold structure (the jellyroll fold domain). The polypeptide contains at least the large fragment (also referred to herein as the "big fragment") of said alpha-helical domain of the pentane base, which fragment includes the RGD loop(s) and the VLP loop, and may contain also the second, short fragment of the alpha-helical domain of the adenovirus pentane base. The polypeptide of the invention provides a new scaffold for optimized presentation of peptidic entities such as oligopeptides, polypeptide sequences, protein domains, proteins and protein complexes made up of two, several or many subunits, preferably as high affinity agents to target molecules.

[Continued on next page]

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