

Translation, but not transfection limits clinically relevant, exogenous mRNA based induction of alpha-4 integrin expression on human mesenchymal stem cells

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running head: mRNA-based approach to alpha-4 integrin

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1 **Supplementary figure 1. Overview of the experiments (graphical abstract)**

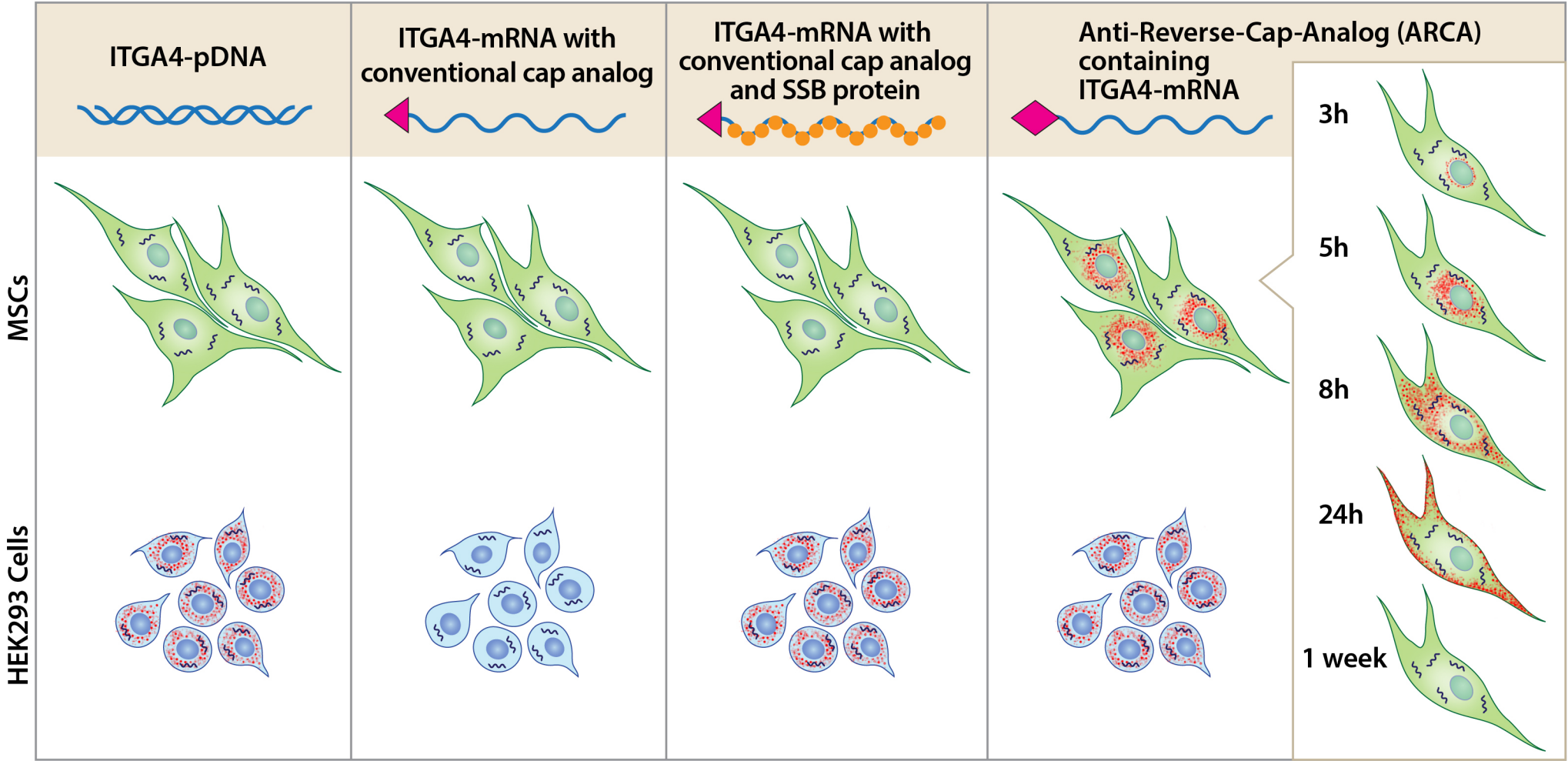
2 **Supplementary figure 2. pITGA4-SP72 plasmid template DNA preparation with subsequent**
3 **verification of ITGA4-mRNA production *in vitro***

4 *E.coli* were transfected with pITGA4-SP72 and obtained selected clones were digested with
5 XbaI/XhoI to confirm proper subcloning from pITGA4 to pSP72 (A). The cloning site was verified by
6 sequencing (B). Selected clone pITGA4-SP72 was employed for ITGA4-mRNA production *in vitro*
7 (C).

8 **Supplementary figure 3. ITGA4 protein synthesis after ITGA4-mRNA transfection**

9 Immunocytochemical assessment of ITGA4 protein presence after ITGA4-mRNA bearing natural 7-
10 methylguanosine cap transfection using Lipofectamine®2000.

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Nucleic acids

ITGA4 proteins

SSB protein

