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(54) Title: COMPOSITIONS COMPRISING ALKALINE PHOSPHATASE AND/OR NATRIURETIC PEPTIDE AND METHODS OF USE THEREOF

(57) Abstract: The present invention provides methods, compositions, and kits for the treatment of neurocutaneous syndromes, such as neurofibromatosis type I disorders associated with overactivation of FGFR3, such as achondroplasia; bone or cartilage disorders; or vascular smooth muscle disorders; or for the elongation of bone. Polypeptides having an alkaline phosphatase peptide fused to an Fc domain of an immunoglobulin or a natriuretic peptide fused to an Fc domain of an immunoglobulin can be administered to subjects, e.g., subcutaneously, to treat a neurocutaneous syndromes. The invention also features nucleic acid molecules encoding such polypeptides and the use of the nucleic acid molecules for treating neurocutaneous syndromes.

