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(54) Title: COMPOSITIONS AND METHODS FOR TREATING FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY (FSHD)

(57) Abstract: Disclosed herein are products, methods, and uses for treating, ameliorating, udaying the progression of, and/or preventing a muscular dystrophy or a cancer including, but not limited to, facioscapulohumeral muscular dystrophy (FSHD) or a sarcoma. More particularly, disclosed herein are RNA interference-based products, methods, and uses for inhibiting or downregulating the expression of double homeobox 4 (DUX4). Even more particularly, the disclosure provides nucleic acids comprising U7 DUX4 antisense sequences for inhibiting or downregulating the expression of DUX4 and methods of using said antisense sequences to inhibit or downregulate DUX4 expression in cells and/or in cells of a subject having a muscular dystrophy or a cancer including, but not limited to, FSHD or a cancer.



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