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(54) Title: COMPOSITIONS AND METHODS FOR TREATING NON-AGE-ASSOCIATED HEARING IMPAIRMENT IN A HUMAN SUBJECT

(57) Abstract: Provided herein are compositions that comprise a) a first recombinant adeno-associated viral (rAAV) vector genome (vg) comprising a first expression cassette comprising a promoter operably linked to nucleic acid sequence comprising a 5' portion of an otoferlin gene, wherein the expression cassette is flanked by inverted terminal repeats (ITRs); and b) a second rAAV vector genome comprising a second expression cassette comprising a nucleic acid sequence comprising a 3' portion of an otoferlin gene, wherein the expression cassette is flanked by ITRs, wherein the composition comprises about 4.1E10-4.1E12 total vg or about 8.1E10-8.1E12 total vg, and the use of these compositions to treat hearing loss in a subject.



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