CLAIMS

What is claimed is:

1. A recombinant adeno-associated virus (rAAV) vector comprising an AAV capsid and an expression cassette, the expression cassette comprising a polynucleotide encoding diamine oxidase (DAO1), operatively linked to a promoter.

2. The rAAV vector of claim 1, wherein the polynucleotide encodes an amino acid sequence having at least 95% identity to an amino acid sequence selected from SEQ ID NO: 1 and 2.

3. The rAAV vector of any one of claims 1-2, wherein the polynucleotide comprises a nucleotide sequence having at least 95% identity to a nucleotide sequence selected from SEQ ID NOs: 29-31.

4. A composition comprising an rAAV vector, wherein the rAAV vector comprises:

(a) an AAV capsid, and

(b) an expression cassette, wherein the expression cassette comprises a polynucleotide comprising a nucleotide sequence sharing at least 95% identity to a nucleotide sequence selected from SEQ ID NOs: 29-31, and wherein the polynucleotide is linked to a promoter.

5. A composition comprising an rAAV vector, wherein the rAAV vector comprises:

(a) an AAV2, AAV5, AAV8, or AAV9 capsid, and

(b) an expression cassette, wherein the expression cassette comprises a polynucleotide comprising a nucleotide sequence sharing at least 95% identity to a nucleotide sequence selected from SEQ ID NOs: 29-31, and wherein the polynucleotide is linked to a promoter.

6. A composition comprising an rAAV vector, wherein the rAAV vector comprises:

(a) an AAV2, AAV5, AAV8, or AAV9 capsid, and

(b) an expression cassette, wherein the expression cassette comprises a polynucleotide sequence sharing at least 95% identity to SEQ ID NO: 23.

7. The composition of claim 5 or 6, wherein the AAV capsid is AAV2.

8. The composition of claim 5 or 6, wherein the AAV capsid is AAV5.

9. The composition of claim 5 or 6, wherein the AAV capsid is AAV9.