**GM2A**

GM2 ganglioside activator; Binds gangliosides and stimulates ganglioside GM2 degradation. It stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A. It extracts single GM2 molecules from membranes and presents them in soluble form to beta-hexosaminidase A for cleavage of N-acetyl-D-galactosamine and conversion to GM3

**GLB1**

galactosidase, beta 1; Cleaves beta-linked terminal galactosyl residues from gangliosides, glycoproteins, and glycosaminoglycans

**GLA**

galactosidase, alpha

**ETFA**

electron-transfer-flavoprotein, alpha polypeptide; The electron transfer flavoprotein serves as a specific electron acceptor for several dehydrogenases, including five acyl- CoA dehydrogenases, glutaryl-CoA and sarcosine dehydrogenase. It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase)

**NAGA**

N-acetylgalactosaminidase, alpha-; Removes terminal alpha-N-acetylgalactosamine residues from glycolipids and glycopeptides. Required for the breakdown of glycolipids

chitinase 1 (chitotriosidase); Degrades chitin and chitotriose. May participate in the defense against nematodes and other pathogens. Isoform 3 has no enzymatic activity

**CHIT1**

chitinase 1 (chitotriosidase); Degrades chitin and chitotriose. May participate in the defense against nematodes and other pathogens. Isoform 3 has no enzymatic activity

**MPI**

mannose phosphate isomerase; Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions

**HHEX**

hematopoietically expressed homeobox; Recognizes the DNA sequence 5'-ATTAA-3'. Transcriptional repressor. May play a role in hematopoietic differentiation. Establishes anterior identity at two levels; acts early to enhance canonical WNT-signaling by repressing expression of TLE4, and acts later to inhibit NODAL-signaling by directly targeting NODAL (By similarity)

**GALT2**

Beta-1,3-galactosyltransferase 4 (Beta-1,3-GalTase 4)(Beta3Gal-T4)(b3Gal-T4)(GalT4)(EC 2.4.1.62)(GAL-T2)(Ganglioside galactosyltransferase)(UDP-galactose:beta-N-acetyl-galactosamine-beta-1,3-galactosyltransferase); Involved in GM1/GD1B/GA1 ganglioside biosynthesis

**HEXB**

hexosaminidase B (beta polypeptide); Responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues