

# Engineered GlcNAc-1-Phosphotransferase (S1S3 PTase) Dramatically Alters Glycosylation of Lysosomal Enzymes Leading to Enhanced Phosphorylation for Improved CI-MPR Binding

## Michael DiGruccio<sup>1</sup>, Kylie Gray<sup>1</sup>, Riley Marcinczyk<sup>1</sup>, Jonathan Roberts<sup>1</sup>, Uday Wanninayake<sup>1</sup>, Vaughn Weaver<sup>1</sup>, Madison Chao<sup>2</sup>, Nastry Brignol<sup>2</sup>, Osman Sheikh<sup>2</sup>, Russell Gotschall<sup>1</sup> <sup>1</sup>M6P Therapeutics, St. Louis, MO 63108; <sup>2</sup>Amicus Therapeutics, Philadelphia, PA 19104



