

Concept	Program	2022					2023					2024					2025					2026					2027					2028																																																																	
	<i>(can be hidden)</i>	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Identification of Compounds- MMACHC gene	National Research Council's Institute of Biophysics (Palermo, Italy)	Discovery										Timelines unknown-estimated 8-10 years from discovery to market launches																																																																																					
Natural History	Clinical and Basic Investigations of Methylmalonic Acidemia (MMA) and Related Disorders (NIH)	Ongoing-currently enrolling patients																																																																																															
*Expected Development timelines Informed by General Industry Assumptions and have not been confirmed by the program sponsors.																																																																																																	
		Legend: POC – Proof of Concept; IND – Investigational New Drug Application; DA – Data Analysis; F – Filing with Regulatory Agencies; R – Regulatory Review; ML – Market Launches																																																																																															