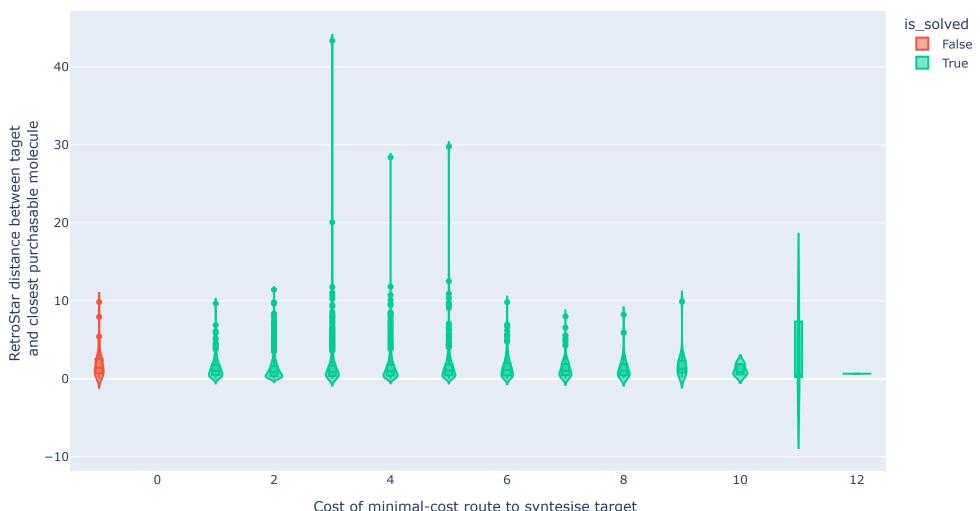Correlation between nearest neighbour distance and minimal cost route