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(71) Applicant: **THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE** [US/US]; 1800 Grant Street, 8th Floor, Denver, CO 80203 (US).

(72) Inventors: **FOX, Jerome**; 2523 Broadway Street, Suite 301, Boulder, CO 80304 (US). **SARKAR, Ankur**; 2892 Shadow Creek Drive, Apt. 110, Boulder, CO 80303 (US).

(74) Agent: **VAN AMSTERDAM, John R.** et al.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210-2206 (US).

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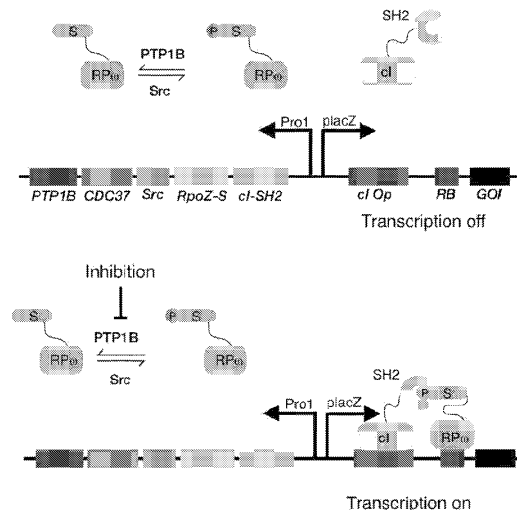


Figure 1A

(57) Abstract: The disclosure provides systems, methods, reagents, apparatuses, vectors, and host cells for the discovery and evolution of metabolic pathways that produce small molecules that modulate enzyme function.

[Continued on next page]

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